

THE PREDICATOR



Vol. 26 No. 1

Construction Specifications Institute
1125 SE Madison, Rm 200 Portland, OR 97214 238-1462

August 1986



Presenting the gavel to new president, Dennet Latham.

President's Column

Portland Chapter's award winning newsletter editor, Inga Vrla, is off to another banner year with this, the summer edition of The Predicator. Inga received an Institute commendation at the Los Angeles National Convention for last year's outstanding newsletter. Not one to rest on her laurels, Inga promises an even better newsletter this year with more information, eight pages instead of last year's six, and a new format and color to be compatible with the new Institute logo and the News Digest.

Although the appearance of the chapter's voice will change, the theme for this year's programs and activities will continue to emphasize the traditional goals of CSI...Advancement of Construction Technology through education and communication.

During the northwest region caucus at the Los Angeles convention, there was lively discussion about the state of specifications around the region. It was suggested that there is a general disregard for quality of specifications and the enforcement of specifications throughout our industry. If this is indeed the case then CSI (we) are not doing the best we can to spread the word on basic contract document preparation and interpretation. Thus, the primary goal of the chapter should be effective education with emphasis at chapter meetings and seminars on "basic specifications". Right, Mr. Searl?!!



Margie Largent with Awards Chairman, Don Walton.



left to right; Pete Daniels, John Kehrli, Roy Josi, Jolie Stricklin, Mary Boyd, Tom Shea, Curt Finch, Margie Largent, Inga Vrla, Dennet Latham.

Other activities related to the regular chapter functions which will broaden the education effort include on-going projects by the joint committee of AGC, AIA, CECO, CSI. This committee is working on three projects which can have important effects on all our work; 1) Development of a region construction library available to everyone in the construction industry, 2) Production of a construction practices manual of industry wide interest, and 3) Sponsoring a major seminar describing the practices manual to industry

members and building owners.

All of these activities promise to provide CSI members and non-members a wide range of educational opportunities. I encourage everyone to partake in these events, either by attending or by volunteering to help organize, to help make your work more effective in the coming year.

If you are interested in helping to organize these activities please call one of the chapter leaders listed on the back of this newsletter.

Awards Night Banquet

On Sunday Evening, June 8, 1986 the Portland Chapter CSI members, friends and family enjoyed a special end of the year celebration and annual awards banquet. Dinner was a delicious buffet.

The Awards Program began with certificates being given to those persons who helped judge specifications for the Institute Specifications Competition.

SPECIAL AWARDS TO 20

John Barker
Dick Cunningham
John Dalrymple
Jim Davidson
Tom Fowler
Larry Gilbertson
Alton Hooten
Steve James
Dennet Latham
Jimmie Luey
Gary Madison
Larry Marbut
Tom Mohr
Stan Nelson, CCS
Arden Newbrook
Dennis Obert
Bill Richey
Greg Ross
Ken Searl, CCS
Jolie Stricklin
Carl Urben
Jerry Van Scoy
Ann White

for contributing about ten hours each to the program, and their efforts were appreciated!

SPECIAL AWARD

Inga Vrla, for The Predicator
CERTIFICATE OF APPRECIATION
Mary Boyd, for programs
Jim Davidson, for 12% membership increase
John Barker, for Products Fair
VOLUNTEER OF THE YEAR AWARD
Jim Hirte, Facilities Chair for Leadership Conference
AL HANSEN MEMORIAL AWARD
Ken Searl, for Specifications Poster
PRESIDENT'S CERTIFICATE
Lee Kilbourn, for his continued support of the Portland Chapter of CSI,
CERTIFICATE OF MERIT & APPRECIATION, (Institute Award)
Margie Largent, for her year as president
"VERY SPECIAL" AWARD
Don Walton, from Betty Bellwood and Margie Largent for his two-year stint as Awards Chairman.

Then Mary Alice Hutchins gave a brief summation of Margie's thank you.

..and here's thanking 'em for all their goodness as is so constancy a diffusing of itself over everywhere and wishing they may live long and die happy. by Charles Dickens

Then the group moved upstairs to the Lake Oswego Community Theater and enjoyed an excellent interpretation of Sweet Charity. by Perky Kilbourn



Board of Directors meeting July 24, 1986

PRESENT: Latham, Finch, Barker, Obert, Daniels, Josi, Shea, Brockamp, Stricklin, Woods, Vrla, Kilbourn, Gira, Kehrl, Chorzempa, Largent, Wilson. ABSENT: Townsend, Luey, Hirte.

Meeting opened at 7:27 by Pres. Latham.

First order of business was the fourth quarter report and the proposed 1986-87 budget. Chorzempa presented the fourth quarter report with minor revisions. Year closed with a small deficit. Books have been audited. Current total assets are approximately \$15,000. It was moved by Finch and seconded by Stricklin to accept the treasurer's report. Approval was unanimous.

PROPOSED '86-'87 BUDGET

Chorzempa presented proposed budget for coming year. After discussion it was decided to include \$1000 for the library and \$600 more for liaison committee as CSI share of seed money for seminar development and construction manual. Budget deficit of \$795 expected. Moved by Stricklin, seconded by Shea to adopt new budget. Vote unanimous. Copies to be available at next meeting.

OFFICE LOCATION

Finch reported on committee's findings. Recommendation is to stay at Builder's Exchange (now called Construction Data News, SE Annex) until June 1987. Rent and contract to remain the same, although the mail will now be forwarded. Stricklin moved to accept, seconded by Daniels. Vote unanimous.

CHAPTER MEETING LOCATION

Latham led discussion on meeting site. Concerns were about price and quality of meal, parking, central

location, image and seminar space. It was moved by Finch and seconded by Shea to stay at the Benson. One dissenting vote. CSI will emphasize that dinner purchase is not a requirement for attending the programs.

PRODUCTS FAIR

Barker presented final report for '86 Products Fair. Profit of about \$6,000. Largest and earliest booth sales ever (132). Biggest budget ever (\$51,573.). Strong attendance, 832 registered, 1000 - 1200 estimated. Survey of exhibitors show strong satisfaction and prefer CSI over CBC show (32 to 2). Barker suggested benefits of public relations firm have been realized and encouraged board to eventually use those funds for a production company while retaining control via a CSI chairman. 1986-87 chairman Woods and board are agreeable to continued volunteer effort while hiring out certain tasks at chairman's discretion.

COMMERCIAL BUILDERS COUNCIL & PRODUCTS FAIR

There was extensive discussion on the CBC Exposition this March. Joe Woods attended the press party at HBA earlier in the day and was very impressed with their organization, funding and booth sales. The consensus was that CSI can and should be considered a "supporter" of the show though not a "sponsor" as CSI has no legal or financial interest in it. There is interest that the extent of such support be defined, e.g. help with seminars, booth display, etc. Joe Woods to take sentiments under advisement in future discussions with CBC. There is a possibility of package price for exhibitors wanting to be in both shows.

AGC AND PRODUCTS FAIR

Woods presented written proposal by AGC Industry Associates Council, Darlene Kargel, chairman, for a joint show. Discussion followed: PRO: Allow a bigger, more diversified show, more competitive with CBC. Staff support by AGC. Greater name familiarity, exposure and attendance

especially by contractors. CON: CSI should not take sides or team up with particular groups. CSI is unique in representing all aspects of construction. Joint shows by other chapters (Seattle, Anchorage) have been unwieldy, too diverse. Motion by Obert, seconded by Shea that CSI not accept joint fair proposal at this point, but continue discussion with AGC and further seek the support of all industry organizations. Vote unanimous. Woods to contact Kargel and solicit participation on products fair committee.

Further discussion centered around purpose of products fair. Tom Shea will help research and redraft a statement. Strong sentiment exists that the show not get too large but stick to building products (not equipment), be moderate in cost and focus on the smaller, local and regional reps.

TECHNICAL DOCUMENTS COMMITTEE

Paul Wilson stated goals of TDC for the coming year: Update substitution request form; work to obtain library; write three spec guides; write two monographs and participate in the national specification competition.

The meeting was adjourned to reconvene on August 12, 12:00 - 1:00 pm at the CSI office (Builders Exchange) All committee chairs to bring a short written statement of goals for the year and list of committee members.

Respectfully submitted, John Barker, Secretary.



Dennet Latham and Region Director, Dick Gira.

LA Convention News

by Perky Kilbourn

On Thursday, June 19, about 12 Portland Chapter CSI members and friends met at the LA Convention Center for the CSI Convention Mixer. After the mixer we all went out to dinner with former Portlanders Ivan and Marlene McCormick.

Friday, June 20, the spouses were treated to an excellent lunch and either a shopping trip or a visit to the J. Paul Getty Museum. That evening we were all transported by bus to the Los Angeles Equestrian Center for the McGraw-Hill party, a catered affair complete with horse show, dancing and general good times.

Saturday, June 21, was a trip to Universal Studios for the spouses.

I attended several seminars on Saturday and Sunday. Time for a Career Change was one.

The steps to take in making a career change are almost the same as for starting your own business. Do some research on the product you are marketing, which in the case of a career change is yourself. Determine the market - will someone buy your talents? Next make a survey of the contacts which need to be made to succeed and find out the problems from persons already in the field.

I also attended a two hour discussion by Joanne H. Sherman, sister of the new fellow, Bob Hockaday. It was a well done communications workshop, which began with a discussion of barriers to open communication. She then presented some of the positive things that can be done to get people to pay attention to you. I was impressed and have been planning strategy based on what she suggested.

After viewing the exhibits with Lee, I heard Dr. Wayne Dyer discuss "Personal Power". He advocates pulling your own strings and suggests that belief in yourself can make a difference.

We enjoyed the President's Banquet and Reception. Though not as much danceable music for us old folks as some times, we did get in a couple of dances and enjoyed the program immensely.

We think the 1986 Convention the best ever!



Local folks at the McGraw Hill party in Los Angeles.



Dinner party for the McCormicks at Velvet Turtle, Los Angeles.



Margie Largent presenting award to Ken Searl.

BS by KS

Basic Specs by Ken Searl

When writing specifications it is recommended that one be brief, concise and to the point. When trying to make a point clear one must be careful not to foul up by losing clarity. If you want to call for a certain color do so, but be sure you want that color and don't have in mind an entirely different color. For instance, in my travel up and down the highways of Oregon I have noticed one trucking company named Yellow Trucking Co. but the paint on the truck is a bright orange. The point is, in writing specifications strive to make them very clear by wording the text so the reader gets the same meaning out of it that the writer does.

As many of you know I have been a proponent for the use of computers and I am happy to say more of our CSI members now own computers. I have had two calls this summer from members who have purchased computers. If you have been considering buying one of the rascals and the cost has been a deterrent, wait no longer because there are a whole bunch of look-alikes out there that have a very thrifty price. I recently purchased one for use at my home costing approximately \$900.00 and that included 640K with 2 disk drives, clock-calendar, graphics card, AT keyboard and an amber monitor. Price does not include any software. If I can be of any help to you regarding computers or purchase of one don't hesitate to call me.

If you are on the fence as to whether or not to attend the Northwest Region Conference at Bend, Oregon on Sept. 11-14 give it some immediate thought because I am sure you will enjoy it and with Hans Meier as our main speaker plus other talented speakers from around our Northwest Region. I am sure you will not be disappointed.

PS to BS by KS

This issue is a short BS by KS and some wit in our office said that was enough anyway. I'm not speaking to him until next week.



Margie Largent presenting award to Inga Vrla.

From the Editor

Were it not for your encouragement and support, fellow CSI members, I wouldn't be here trying for another "winning" newsletter! As Dennet mentioned, we are planning a slightly new image to reflect the new CSI logo, and are including some other ideas which, I hope will please you!

I especially wanted to remind you of a super bargain in advertising. It costs you only \$125 (CSI members) to include your brochure in *The Predicator*. We mail about 900 issues to architects, engineers, contractors, government agencies and suppliers in Washington, Oregon and Alaska, with a small portion (about 200) being mailed throughout the U.S.

For more details call me at 635-6227.

On Saturday, June 20, 1986 your editor presented herself along with at least 100 other award recipients at the opening ceremonies of the 1986 CSI National Convention.

It was a heady moment for a gal from the backwoods - I'm kidding of course. Really, I was thrilled to receive an award for doing something I enjoyed - not many people are so lucky.

It had been a few years since I last saw LA - as a matter of fact, the last time the NRCA convened there. It's a grand fairyland, weather was balmy with fairly clear skies (for LA). The hospitality was second to none - and needless to say, we all enjoyed our trip. The exhibits were wonderful. I have brought home boxes of brochures and catalogs which I want to share with CSI members. Please come to the next dinner meeting and take your pick!

The seminars that I attended were informative for the most part and well planned. Trade Shows - A Different Sell was excellent. Many good ideas for getting the most out of exhibiting at a trade show. A plan of action and goals expected are of prime importance in making a success of selling at a trade show. This program was aimed at exhibitors primarily.

The Pursuit of Productivity in the Perilous Present, presented by Derek Mills was also excellent! Those of you who first heard him in Victoria will remember his sly humor and rather didactic delivery. He discussed the rise and decline of interest in Japanese management, the new fascination with entrepreneurship. I have his tape if anyone is interested in hearing it.

Peeling Paint on Concrete Structures, by Jerry L. Wylie, CSI

It is a well documented and industry accepted fact that paint on concrete structures experience premature failures, in the form of peeling, on both sides of an exterior concrete wall. In comparison to non-cementitious substrates such as wood, the service life of paint on concrete surfaces is one-half to one-third less, depending upon the conditions.

Close observation of peeling paint on concrete surfaces will reveal the presence of "efflorescence" and the fact that failure is present long before oxidation caused by the elements has occurred. To understand why this occurs, we must recognize a few simple facts:

A. Typical latex and acrylic exterior paints are alkaline sensitive.

B. The water soluble calcium hydroxides in concrete which are highly alkaline (ph of about 12.5) are carried into contact with the coating by moisture vapors which are drawn to the warm side of the wall (inside during the winter and outside during the summer) depositing efflorescence.

C. These alkaline deposits will break the bond of paint to concrete, not allowing the paint to obtain its optimum life potential.

Prevention of this phenomenon, through the use of a properly selected clear sealer is not only inexpensive and cost effective, but can provide waterproofing and protection from carbonation which is the leading form of environmental erosion of concrete in the world today.

When you consider the long term results of protecting from carbonation, the savings enjoyed by obtaining the optimum service life of the paint becomes almost insignificant.

The effect of carbonation is potentially devastating to the structural integrity of the structure and in extreme cases can be cost prohibitive to correct. It is obvious, and there are many local examples that demonstrate the fact that paints do not protect concrete from carbonation. For a detailed explanation of carbonation, refer to page 22 in the December 1985 issue of *The Construction Specifier*.

Board of Directors Meeting June 3, 1986

Board members present were Margie Largent, Dennet Latham, Joe Woods, Jim Luey, Betty Bellwood, Jolie Stricklin, Bruce Townsend, John Brockamp. Absent: Janelle Chorzempa, Curt Finch. Committee people present: Jim Davidson, Mary Boyd, Inga Vrla, Lee Kilbourn.

Treasurer absent - no report. Correspondence - letter from Willamette Valley Chapter congratulating Portland chapter on Products Fair and Leadership Conference. Letter from Dave Thomas on end of tenure as Region Director.

Jim Davidson, MEMBERSHIP, reports a 12% increase in membership over previous year. Appointment of John Brockamp as Membership Chairman for next year. Betty Bellwood applauded John Barker's efforts with the Products Fair as contributing to increased membership.

TECHNICAL DOCUMENTS; Dennet Latham reported that Paul Wilson will be the chairman of TDC next year. Committee received extension on SpecGuide assignments. Moisture/Concrete Slab assignment will be broken into two studies. Substitution Request Form revision is being circulated to region members for consideration at Region Conference.

PROGRAM: Mary Boyd discussed preparations for annual awards banquet (to be held at Lake Oswego Community Center) which will include a performance of Sweet Charity.

PRODUCTS FAIR: Margie Largent reported for John Barker about success of 1986 Fair. After much discussion, it was moved, seconded and approved that the CSI Portland Chapter will decline to participate in Northwest Commercial Building Exposition.

Inga Vrla expects to publish an August issue of *The Predicator*.

LIAISON: Lee Kilbourn reported for Pete Daniels that a position paper is being prepared to establish a multi-discipline construction library.

No new or old business: Meeting adjourned at 1:25 pm. Respectfully submitted: Joe Woods, Secretary

In selecting a sealer to be used for providing optimum service life to paint, protection against carbonation and waterproofing, the following should be considered:

- Paintability
- Breathability
- Type of bond
- Frequency of re-application
- Depth of penetration
- Cost

In conclusion, it is wise and cost effective to treat concrete structures with a properly selected sealer regardless if they are to be painted or not.

LETTERS ...

Since 1969 it has been my privilege to actively serve CSI.

The greatest privilege, however, came to me about three years ago when you selected me as your Region Director. I must tell you, now, that this past three years has been a real highlight in my life. It is truly inspiring to associate, and work with very dedicated people from around the country who are giving of their time and talent to seriously deliberate and act upon issues that have long lasting effects for all of us. You hear it in their words, see it in their eyes and sense it in their actions. These people believe!

Each person who serves as your Region Director must have goals to achieve during their term. Well, I had mine.

1. To demonstrate the capability and dedication of our Northwest Region members.
2. To expand our Region Leadership Training.
3. To continue a high level of recognition for our Region in Institute affairs.
4. To respond to your needs whenever asked.
5. To bring our Institute membership together by cleaning up the outdated separation of rights and privileges among our members.

I feel my goals were achieved. The Northwest Region is well recognized across this country for its success and contribution to CSI. Our leadership of Region and Chapter is stronger through our programs. We have extensive involvement in Institute affairs on the Board, Executive Committee and committees. Our chapters have grown and are stronger. I have been deeply involved in the



NORTHWEST REGION

1. Cook Inlet, Anchorage, Alaska
3rd Tuesday of month
6:30 pm, Anchorage Int'l. Inn
2. Idaho (Boise, Idaho)
1st Tuesday of month
6:30 pm, University Inn
3. Portland (Portland, Oregon)
2nd Tuesday of month
5:30 pm, Westin Benson Hotel
4. Puget Sound (Seattle, Wa.)
2nd Tuesday of month
5:30 pm, The Canal Restaurant
5. Spokane (Spokane, Wa.)
2nd Thursday of month
6:30 pm, at various locations
6. Willamette Valley (Eugene, Oregon)
Last Thursday of the month
5:30 pm, Bev's Steak House

major bylaws changes you have been voting on the past three years. I am very pleased to say that the bylaws amendment concerning Industry/Associate access to the Institute presidency passed by a wide margin and provoked one of the largest ballot returns in the history of the Institute.

I admire all of you. Thank you for letting me have this great experience. Very truly yours,
David E. Thomas, NW Region Director, CSI



CSI/AIA Golf Tournament

October 3, 1986 at Forest Hills Golf Course.
Contact Larry Gilbertson for further details, 224-1940

Technical Documents Committee

by Paul Wilson, Chairman

1986-1987 Agenda - Paul Wilson, Ch.

1. SpecGuide sections assigned by Institute:
Roof and wall panels
Operable partitions
Radiation protection
2. Monograph studies under consideration:
Slab on grade floor design
Slab on grade floor construction
3. Project manual competition
4. Update substitution request form
5. Assistance for library

Committee members for 1986-87 include Paul Wilson, Chairman, Dennet Latham, Bob Klas, Dennis Obert, Bruce Townsend, Candace Robertson, Curt Finch, Lee Kilbourn, Ken Searl, Jolie Stricklin, Jerry Van Scoy, Don Walton. Additional members cordially invited. Contact Paul Wilson for date and time of meetings. (226-0622)

1986 NORTHWEST REGION CONFERENCE

Sept. 11-14, 1986

THE INN OF THE SEVENTH MOUNTAIN
Bend, Oregon

Host: Willamette Valley Chapter, CSI



PORTLAND CHAPTER LEADERS, 1986-1987

President, Dennet Latham	222-1917
President-elect, Curtis Finch	222-1661
Secretary, John Barker	231-9118
Treasurer, Dennis Obert	245-7802
1985-1986 President, Margie Largent	636-6977

BOARD OF DIRECTORS

Peter Daniels, Prof. '88	656-7081
Roy Josi, Prof. '88	226-8462
Tom Shea, Ind. '88	760-6433
John Brockamp, Ind. '87	655-9151
Jolie Stricklin, Pro. '87	221-1421
Bruce Townsend, Pro. '87	228-6444

COMMITTEE LEADERS

Awards: Jolie Stricklin	221-1421
Certification: Lee Kilbourn	224-3860
Editor: Inga Vrla	635-6227
Education: Dennis Destefano	224-3860
Hospitality: John Kehrl	644-7102
Liaison: Peter Daniels	656-7081
Library: Candace Robertson	222-3753
Long Range Planning: Richard Elmann	644-4222
Membership: John Brockamp	655-9151
Products Fair: Joe Woods	232-4000
Programs: Joe Woods	232-4000
Publicity: Joe Woods	232-4000
Technical Documents: Paul Wilson	226-0622

REGION RESPONSIBILITIES for Portland Chapter Members

Institute Specification Competition Committee, Lee Kilbourn	224-3860
Technical Documents Committee, Robert Klas	644-4222
CSI Appointee to Amer. Arbitration Assn. Regional Construction Advisory Committee, Wm. Merritt	223-8590
Nominating Committee, Margie Largent	636-6977

REGION DIRECTORS

John Greiner	(206) 455-5236
Greiner & Assoc. P.O. Box 1927 Bellevue, Washington 98009	
Richard Gira	(503) 224-8226
NW Lath & Plaster Trust, 4621 SW Kelly Portland, Oregon 97201	
Institute Assignments Specification Competition: Lee Kilbourn	224-3860

ROUTING LIST

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6. * _____

Membership Committee

John Brockamp, Chairman

Member News



Welcome back, Neal and Gwen Jacques.

Don Wallace has been named as the new director of the Western Wood Product Assn. technical department.

John Barker is the State Coordinator for the Intern-Architect Development Program (via Oregon Council of Architects). The intern program is mandatory for entrance to the State Architectural exam. Contact John for more details. (503)231-9118.

Mary Boyd, our 1985-86 program chairman has left our area and now makes her home in Monterey, Ca., where she is managing an insurance agency founded by her family. We're sorry to see you leave Mary! But best wishes to you!!

Institute and Portland Chapter Dues for the year are as follows: Institute \$110.00. Portland Chapter \$20.00. Total investment is \$130.00. Please send your check for \$130.00 payable to the Construction Specifications Institute to John Brockamp, at the CSI offices, 1125 SE Madison, Suite 200, Portland, Or. 97214.

The Predicator

Editor, Inga Vrla
1125 S.E. Madison, #200
Portland, OR 97214

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CSI membership is one of the best ways to keep informed. CSI will provide you with a way to know about the latest developments, both in your own discipline, and in the industry in general. Having the latest accurate information is one more way you can give the best to your clients. John Brockamp

WELCOME NEW MEMBERS!

Dale Kuykendall, Emerick Construction. Dale is a June 1985 graduate of O.S.U. in Construction Engineering Management. His expertise is in estimating and critical path scheduling.

C. "Skip" Gaultier, Vancouver, Wa. abatement contractor/consultant. He is an asbestos spec writer doing joint presentations with CSI/AIA region wide. Skip is a pollution control specialist, accredited through National Institute of Occupational Health, OSHA and others.

Stephen R. Miller of Thompson Tile Co., is an architectural representative for ceramic tile and related products. He has been with Thompson Tile for 3-1/2 years and lives in S. W. Portland with his wife and two kiddies. Steve formerly was a dealer rep calling on dealers and contractors.

! RSVP: DINNER MEETING—238-1462 !



THE PREDICATOR

Advancement of
Construction Technology

Construction Specifications Institute Portland Chapter
1125 SE Madison, Rm 200 Portland, OR 97214 238-1462

Vol. 26

No. 2

September 1986



From the President by Dennet Latham

The summer has been a busy time for planning this year's activities for the Portland Chapter. From the leadership conference in May, to the National Convention in June, to two planning meetings in July and August, your board has been actively planning an exciting and informative year for you.

Out of this planning have come the following goals for the 1986-87 year.

EDUCATION: The key activity of CSI is education. To this end the Chapter will plan one major seminar of a topic of interest to all members during the year. The informal small group discussions on specification topics which were held last year immediately prior to each chapter meeting will continue to happen. This year, topics for these discussions will become more structured and be publicized ahead of each meeting. The monthly chapter meeting programs will provide members and guests with topics of interest to all in the construction industry. The Certification Committee, in the able hands of Mr. Lee Kilbourn, will continue their efforts to promote the CCS, Certified Construction Specifier, and Industry member certification exams with study assistance for examinees.

PROGRAM for September 9, 1986

Where: Westin Benson Hotel, Crystal Ballroom

Time: 5:00 - 6:30 Roundtable and social hour

6:30 - Dinner

7:30 - 9:00 Program

Cost: \$15.00

RSVP: CSI offices at 238-1462 by 5:00 pm on Friday prior to dinner meeting. Friends/spouses and guests are very welcome! ALWAYS Parking is available at the bank parking garage and tickets are validated at the door.

Program

A CONTRACTOR'S VIEW OF "INTELLIGENT BUILDINGS"

Mr. Gerry Garbarino of Johnson Controls will make a presentation on the installation and maintenance of the complex control systems required to integrate automation, telecommunications, environmental controls, maintenance and security utilities in today's new buildings.

Round Table Round Table Round Table Round Table Ro

ROUNDTABLE DISCUSSION "Sticking to Your Software"

Roundtable discussions will be held before each monthly chapter meeting as an informal gathering to talk about specification topics of interest to members. All members are invited.

PROGRAM PREVIEW - October 14, 1986 PORTLAND CENTRAL CITY PLAN Presentation by representatives of the Citizens Steering Committee for the Central City Plan. You plan on being there!

SPECIFICATION COMPETITION: Again, this year, the Portland Chapter will participate in the evaluation of specifications from other regions during the judging of the Institute Specification Competition. The Chapter will help promote this competition to our area in order to encourage participation by Chapter members. Having helped in the evaluation last year I believe that specifications written in our chapter are of a quality equal to or superior to those evaluated last year. Our membership deserves some recognition!

MEMBERSHIP: Last year the Portland Chapter finished the year with about 260 members. This year's goal for the membership committee is to achieve 300 members. I was interested to find out at the Tri-Region Conference last year in Monterey that the Portland Chapter is one of the few chapters in CSI with fewer Professional members than Industry and Associate members. Since the primary goal of CSI is to promote improvement in construction specification production, then, the chapter should have a balance between those who write specifications and those who execute specifications.

PRODUCTS FAIR: Joe Woods, Products Fair Chairman, and his committee is

well under way in the planning of this year's Products Fair. The goal of this year's fair is to continue the original intent of this regional show; to provide local design professionals and local construction product manufacturer's representatives and suppliers an opportunity to meet face to face at one time, in one place to view the latest in construction materials. The emphasis is on local representatives, so design professionals have the opportunity to meet those people they will work directly with during construction. Proceeds from the Products Fair will go to the continuing efforts of the Education, Technical Documents and Programs committees to improve Chapter services for its members.

TECHNICAL DOCUMENTS: The Technical Documents committee, Mr. Paul Wilson, Chairman, will continue the efforts of last year's committee with the goal of publishing two CSI Monographs, one on "preventing moisture from penetrating from underneath floor slabs" and the other on "proper conditions for the successful application of resilient flooring to concrete slabs on grade". Also, the committee is working on three CSI

Continued on Page 2

ASTM Searches for Papers on Glazing Systems

ASTM is looking for papers for its Symposium on the Science and Technology of Glazing Systems. The symposium will be held the week of Feb. 1, 1988, in Fort Lauderdale, FL. Specific topics for the papers are suspended glazing, lock-strip gasket glazing, compression seal glazing, wet sealant glazing, tape glazing, structural sealant glazing, and insulating glass edge seals. For more information, contact ASTM at 1916 Race St., Philadelphia, PA 19103; (215) 299-5400.

FEMA PUBLISHES SEISMIC DESIGN PROVISIONS FOR NEW BUILDINGS

The Federal Emergency Management Agency (FEMA) has released comprehensive design provisions to improve the seismic resistance of new buildings. The new provisions were developed in a multiyear project by the Building Seismic Safety Council (BSSC), with technical support from the National Bureau of Standards (NBS) and funding from FEMA.

"Over the last year we have had graphic evidence in the Mexico earthquake that the major cause of deaths and injuries in earthquakes is the partial or total collapse of buildings," said FEMA Associate Director Samuel W. Speck. "We are convinced that countless lives could be saved in the event of a major quake by incorporating seismic resistant design provisions into state and local building codes."

The new provisions are designed for voluntary use by standards and model codes organizations, the building and research communities, state and local building officials and the public. Their completion culminates more than a decade of work by the public and private sectors to develop authoritative, technically sound resource information for use as a foundation for improving seismic safety design.

Single copies of a three-part report entitled "NEHRP Recommended Provisions for the Development of Seismic Regulations for New Buildings—1985" may be obtained by writing NEHRP Provisions, FEMA, P.O. Box 8181, Washington, DC 20024.

Continued from Page 1

SpecGUIDE documents; 07420 Preformed Roofing and Siding, 10650 Operable Partitions, and 13090 Radiation Protection.

The activities planned can be a benefit to all members and non-members. I encourage everyone to participate in the chapter meetings and other activities. Participation is a great way to learn something useful to your work, meet new friends, and have a good time. Speaking of a good time, I encourage you all to attend the Region Conference at the Inn of the 7th Mountain in Bend on Sept. 11-14, 1986. The Willamette Valley Chapter has planned an interesting technical program, including Mr. Hans Meier, FCSI, author of Prentice-Hall's Construction Specifications Handbook, and social activities including tours of the Bend area. They promise an informative and fun week-end. Dennet Latham, President



Portland Chapter CSI Board of Directors

Board of Directors August 12, 1986

Present: Board Members: Latham, Barker, Daniels, Brockamp, Largent, Obert, Townsend, Josi, Shea. Committee Chairmen: Woods, Vrla, Kerhli, Ehmann, Kilbourn, Wilson. Region: Gira, Klas. Absent: Finch, Stricklin.

Meeting opened at 12:09. Minutes from last two meetings read and approved after some discussion.

Meeting was continuation of July 24 meeting at Dick Gira's residence.

Membership Brockamp reports basic thrust this year will be to increase the ratio of professional members. Letters have been sent to prospective members. A membership campaign this fall culminating in a special chapter program was discussed.

Programs No chairman to date. Latham does have several committee members he will meet with shortly. Immediate concern is the September program. Concern expressed that there be a balance between general and technical programs. Conducting a survey for program ideas was discussed.

Products Fair More discussion re overall goals. Shea was not able to find original statement. Wood's focus this year is to make the show more personalized with monthly mailings to exhibitors. Special consideration will be paid to small firms. Woods displayed new letterhead and envelope.

The Predicator 906 special summer issues of The Predicator were mailed. Vrla's goldmine continues to yield "ingots" (paid advertising inserts). Next issue to feature IWO colors and 8 pages. Committee reports and articles most welcome.

Hospitality Board established policy that table-top displays at chapter meetings are free for local members.

Dennis Obert has replaced Mary Boyd as treasurer

Non-members are to pay \$20, but this will be refunded if they join CSI and the chapter. (Not coincidentally, dues are \$20) The need for personal greetings and attention to first-time visitors was stressed. Also need to officially welcome new members.

Publicity Joe Woods will continue press releases for chapter meetings. Phone volunteers needed to call membership before meetings.

Liaison Largent reported the recent library committee meeting had representation from all professional groups. A goals and benefit statement is being drafted to present to the Multnomah County Library Board. This will include an inventory of books. Next meeting is Sept. 8.

LRPC Ehmann considers this a "background" committee which will be made up of past presidents. They will document established decisions and modify the Institute Administrative References to become our customized chapter operations guide.

Old Business Viking Industries tour was cancelled. Regional Conference is coming up!

Next board meeting is Sept. 2, 1986. Chapter meeting Sept. 9. Meeting adjourned 1:23 pm. 'Specfully submitted, John Barker, Secretary

Treatise on Construction Law Published

Construction Law, a four volume piece, covers a number of aspects of construction law from a developer's first negotiations to liability for the finished structure. Topic areas include risk management, labor relations, financing, design contracts, arbitration, and government regulation. Chapters include documents, statutes and construction-related forms. For information on obtaining the four volume set, contact Matthew Bender & Co. at (800) 833-3630.

The Universal Evacuation Signal

The following article appeared in a newsletter from Simplex Time Recorder Co., dated May 1986-Life Alarm Lines.

It's the noon hour in a suburban shopping mall restaurant. The staff is rushing to service this afternoon's patrons and the mall is filled with noon hour shoppers. In a banquet room down a corridor off the main dining area, a group of business people have just been served, before their formal business meeting begins.

In the midst of all the clamour, a ringing sound attracts everyone's attention. Several comments and explanations can be heard coming from people in the banquet room:

"The elevator must be stuck."
 "It's probably someone at the kitchen delivery door."
 "Maybe it's a hold-up alarm at the bank."
 "I hope it's not the fire alarm, I haven't finished my lunch."
 "Fire alarms use horns, not bells, don't they?"

Several minutes pass as people continue to eat their lunch with only an occasional comment about what is being done to quiet the noise. Upon finishing lunch and out of concern that the noise will disrupt the balance of the meeting, one member of the group decides to seek an explanation. Upon opening the conference room door, he finds the corridor filled with a smoky haze and two fire fighters in full breathing apparatus coming down the hallway. The fire fighters immediately direct the surprised group to a safe exit path.

Activation of a smoke detector had caused the alarms to sound and the fire department to be notified. The responding fire fighters quickly extinguish a fire that had started in a kitchen closet. Fortunately, there were no injuries and damage was minimal. The results could have been tragic, had smoke conditions reached a level that prevented a safe exit.

This scenario is not fiction. We have left the decision as to whether or not a fire evacuation signal has sounded, to the interpretation of the listener. The time is long overdue for the adoption of a universally recognizable fire alarm signal.

To address this problem the NFPA 72A Committee recommended the standard fire alarm evacuation signal be a Code 3, Temporal Pattern. The recommendation was incorporated into Appendix A of NFPA 72A.

The 72A Committee determined that the Dit-Dit-Dit signal pattern of the Temporal Code, rather than a distinct tone, allowed signals to be easily retrofitted to existing systems where a variety of horns, buzzers, bells and chimes are already in use.

Unfortunately, until the Temporal Code or some other distinct evacuation signal is adopted by the majority of authorities having jurisdiction, fire alarm signals will be subject to dangerous misinterpretations.

BS by KS Basic Specs by Ken Searl

John Greiner, CSI Regional Director, asked me to serve another year as the regional CCS/Certificate person and I told him I would accept. Now then, by golly, all you folks out there that want to take next year's exam for either the Certified Construction Specifier or the Certificate for an Industry person please let us know so we can get you on the list. This will help both the regional and the national in scheduling of test dates; also we can prepare and give some study courses at each locale. Call me for information and any help I may be able to render. Oh yes, the test will be given on April 4, 1987.

Another item I want to talk about and you might as well hear it from me before Kilbourn sneaks up on you and that is I have a feeling we will all be asked to help judge specifications for next year's CSI's national specification awards. Oh yes, Lee, you may consider me as your first volunteer. Now all we have to do is round up a bunch more eager beavers. Judging the specifications submitted is very interesting. One can learn a lot of information from judging the specifications from various parts of the country. Judging or just reading these specifications can be both interesting and helpful. It gives one a chance to see what's going on in the world of specification writing. I can tell you one thing and that is most of the spec writers out in the west do a darn good job. If anyone should ask what I think is the one most important item that is wrong

with many specifications, I would say too many words.

For many years I have wondered why the Institute through Manu-Spec and other information shows the use of the numerals 1.01, 1.02 etc. in specifications headings. Many of us use 1.1, 1.2 etc. Now it seems to me that the 0 is not needed and is just so much extra verbage. I have been told the reason it was done in the first place was that computers had to operate with the 0. This was a long time ago because computers I have seen over the years do not require this. What I want to know is why this practice is continued. It appears from an Institute standpoint that they don't really care, so how about considering deleting that little rascal 0.

In conclusion, I will briefly discuss computerized estimating from both the contractor and architect's viewpoint. It seems to me a contractor, either large or small, cannot afford to be without some sort of computerized estimating. It is a known fact that contractors do not make any money estimating. Money is only made by doing projects. If the estimating and bid time can be reduced, more time is available for such goodies as running down invitations to bid, taking your secretary to lunch, calling on possible project prospects or just having a good time doing work already in progress. An architect can use computerized estimating as a design tool to keep the project costs within budget. This is one of the most important items; just ask any architect or owner. Now if you feel you don't want to invest money into computerized estimating there is an alternative. In the Portland area there are several firms one can engage to do the estimating. In fact, we have at least one such person who just happens to be a CSI member. If you don't know his name call me and for a quarter I will give it to you.

Finally, if you receive the Sun/Coast Architect/Builder magazine there is a good article covering this topic in the July 1986 issue on page W-9. If you don't have this magazine I will send you a copy of the article upon request and I won't charge you my usual 25 cents.

ANSI Releases 1986 Catalog of American National Standards

The 1986 Catalog of American National Standards is now available from the American National Standards Institute (ANSI). The edition lists approximately 8,000 ANSI-approved standards which establish dimensions, rating, terminology and symbols, test methods, and performance and safety requirements for materials, equipment, components, and products. The range of fields includes acoustics, electrical and

electronics, financial services, heating, air-conditioning and refrigeration, information systems, mechanical, and nuclear. ANSI members and libraries that serve the general public may receive the catalog and its supplements free; nonmembers may obtain a copy from ANSI for \$10. Purchasers will receive copies of all supplements issued in 1986. For more information, contact Cindy Swanteck at ANSI, 1430 Broadway, New York, NY 10018; (212) 642-4922.



CSI PRODUCTS FAIR/WORKING DRAWINGS

Working Drawings Theme of 1987 Products Fair by Joe Woods, Chairman

"Working Drawings" will be the theme of the CSI Portland Chapter's 1987 products fair, to be held May 21 at Montgomery Park, site of last year's successful event.

Planning has begun and the excitement is building already. We chose "Working Drawings" for the theme because it has several meanings in relation to the construction industry. Working drawings is usually the point in the design process where the architects are choosing the materials for a project. It also signifies the products, which make those design drawings "work".

Finally, the theme establishes the idea of working together - the designer, the material reps and the contractor - to translate an idea into a structure.

The plan for the 1987 products fair is to produce a show which will be attended by architects, interior designers, engineers, developers, general contractors, purchasing agents and building owners. To that end, we will be utilizing extensive mailings. We're going to personalize the products fair this year. Beginning this month, we'll be sending out regular show "updates", informing prospective exhibitors and attendees about what's happening with the show.

Rob Roy, a multi-media specialist and architectural model builder, has designed a provocative letterhead which will be used in all of the mailings and other fair-associated correspondence. The letterhead graphic (shown above) depicts a concept of architectural rendering not necessarily tied to a specific project. "I tried to encapsulate the spectrum of the construction process," said Roy. "Beginning with the human element on the left, the graphic displays an interior/exterior building view, and also the mechanization of the jobsite."

Committee members are Darlene Kargel of Basic Computer Systems; Bruce Townsend, architect with SERA; Barton Eberwein, director of marketing for Western Wood Structures; Cindi Pernsteiner, Tile Distributors; and John Barker, 1986 Products Fair

chairman and architect in independent practice.

Although many of the specifics have yet to be ironed out, we hope to bring a nationally-renowned speaker to the products fair this year.



Joe Woods, Products Fair Chairman with President Dennet Latham

Montgomery Park, located five minutes from downtown Portland on N. W. Vaughn, was also the site of the 1986 products fair. During that event the building was just beginning a massive renovation project, which is scheduled for completion early in 1987. It will be interesting for last year's attendees to see the building once it is truly complete. It will be a first-class facility for our products fair, offering a beautiful exhibit area and also a giant atrium facility where we will be holding a buffet dinner "mixer" following the day's events.

Watch for "Working Drawings" updates in your mail. Companies interested in exhibiting should contact Joe Woods at: CSI Products Fair, P. O. Box 12053, Portland, Or., 97212 or call (503)232-4000.



Ken Searl, Jim Luey and friends at recent awards dinner

New Spec-Grade Product Line Announced

"We are happy to announce our new line of inexpensive products, marketed under our own trade name of 'Or Equal' architectural materials," says Rob Job, President of Or Equal Manufacturing Corporation, Tijuana.

"We know construction specifiers will be happy that products they so often specify will now be available for immediate delivery without their having to go through a lengthy comparison with other products inadvertently specified. We believe this to be a great step forward. For the first time, architects can be assured they will receive the 'Or Equal' products they so often specify and so seldom receive."

Noting the confusion among bidders attempting to supply quality products when "Or Equal" products are good enough, Mr. Job suggests that architects avoid naming products of recognized quality.

"On your next project, specify only 'Or Equal' products," he said. "The results will surprise you."
Snah Reiem

(This blurb appeared in the August 1986 issue of LA/CSI Newsletter. As you may be able to tell, we have Hans Meier to thank for it. ed)

SPRI Presents Design Guide

The Technical Committee of the Single Ply Roofing Institute (SPRI) has published *Wind Design Guide for Ballasted Single Ply Roofing Systems*. Included in the guide is a discussion of factors which should be considered when a ballasted assembly is to be used, such as wind loads, building height and location, and edge conditions. Such ballast materials as stone and pavers are identified. Copies of the guide are available from SPRI for \$5. SPRI is located at 1800 Pickwick Ave., Glenview, IL 60025-1377. (312) 724-7700.

Legal Update

On April 17, the house passed a bill which would prevent construction industry employers from setting up "double breasted" nonunion operations to avoid the terms of union contracts. The bill would amend the Taft Hartley Act to provide that any two or more construction industry employers performing the same or similar work and having direct or indirect common ownership or control would be considered a single employer. Under the bill, a union contract signed by one construction industry employer would apply to all other business entities that fall within the definition of "single employer". It also prohibits employer repudiation of prehire agreements unless workers at the job-site reject union representation in a Labor Board election.

Also, affirming a decision of the labor board, a "double breasted" employer (i.e. an employer with both a union shop and a non-union shop) was ordered by a federal appeals court to resume operation of its unionized business. The employer was also ordered to provide backpay to the employees of the union shop who were laid off because the employer began bidding on behalf of the non-union shop for the type of work that had previously been done only by its union shop. This litigation has a ten year history and is expected to have a Supreme Court review of the decision.

While the AFL-CIO applauded House passage of the bill as a "great win" for labor, the Associated General Contractors of America warned that the bill would result in a "stampede" of construction industry employers away from union shops. The Reagan administration opposed the bill on grounds it would interfere with employee free choice in selecting or rejecting union representation. A companion bill, S2181, is awaiting action by the Senate.

This article is reprinted from SPRINFO, July 1986 issue of Single Ply Roofing Institute newsletter.

ACCESSIBILITY STANDARD REVISION APPROVED BY ANSI

A major revision of ANSI A117.1, the voluntary consensus standard used to make buildings accessible to people with physical disabilities, was approved by the American National Standards Institute on February 5, 1986.

The standard is recommended for use by government building regulatory agencies at federal, state, and local levels and by private sector designers and builders. It is intended to provide only design specifications. The adopting organization determines criteria such as where, when and to what extent the specifications should apply.

Changes incorporated into the new edition of ANSI A117.1 were made to promote uniformity in design specifications. Requirements that restrict the standard's scope of application have been deleted to make it easier for building codes and federal and other regulations to reference the document without conflict.

Other changes in A117.1 reflect technological developments for alarm and communications systems used by people with visual or hearing impairments. In addition, all illustrations in the standard have been redrawn and several new ones added to further clarify specifications.

The first American National Standard on building accessibility for people with disabilities applied only to public buildings. It was referenced by many federal agencies and incorporated, in whole or in part, in state codes. A 1980 edition was expanded to include residential environments. It was recommended for use in model state and local building codes by the Council of American Building Officials.

The new 1986 edition was developed and approved for submittal to ANSI by the Accredited Standards Committee on Architectural Features and Site Design of Public Buildings and Residential Structures for Persons with Handicaps, A117. The National Easter Seal Society, the U.S. Department of Housing and Urban Development, and the President's Committee on Employment of the Handicapped serve as secretariat. The committee's chairman is Edward H. Matthei, FAIA, a volunteer with the National Easter Seal Society.

BUILDING STANDARDS/MARCH-APRIL, 1986

More Notes on the 1986 L.A. Convention

by Margie Largent

I promised to report upon the "Architect-Engineer Coordination" technical session at the 30th Annual CSI Convention in L. A.

It was short of being...helpful. The handout (a checklist of sorts) was in short supply and the three panelists seemed unrehearsed, "peer-gentle" and very general in subject matter. Dennis Obert also attended - perhaps he found it more informative? Dennis?

The session on Handwriting was doomed from the time the speaker gave the audience the option of asking questions as she progressed through her speech or waiting until she finished. A few questioners in the audience controlled the session from the start. A very boring session.

The Convention Center is either poorly planned for the Technical sessions -- i.e., people coming in late or leaving because they were in the wrong session or perhaps couldn't find the one they wanted, or the sessions were very loosely organized and hasty. If we went the wrong way it was a 10 min. walk to the end and back to the stairs and equally far in the other direction, so stragglers were typical, late starts typical, overrun on "time" typical and consequently, I remember the "search" more than the content on most of the sessions I attended. I don't recall this much confusion at the other conventions (6) I have attended!

Margie

Board members enjoying the evening at Dick Gira's home at July planning meeting



Institute Technical Document Program

by Bob Klas, Northwest RTC

The Institute Technical Document Program is guided by a committee of 5 members, and Chairman Jim Robertson, from the Willamette Valley Chapter. The committee is responsible to the Board of Directors and Executive Committee. Bob Johnson, from Colorado, is the Institute VP who provides liaison with the Technical Committee. The responsibility of the Region Technical Chairman is to provide liaison between NW Region Chapters and the Institute Committee.

Technical programs are selected to respond to the needs of the members and CSI goals. Program continuity is insured by staggering terms of the committee members. The current programs are an outgrowth of 25 years effort to improve construction communications. The effort began with the need to make specifications understandable thruout the industry. The standardized formats and improved product information are the result. Besides maintaining and continuing to improve these programs, the Institute is developing an electronic data base which will revolutionize our access to information. CSI is the one organization which has programs underway to move our industry into the 21st century.

The following are current Institute Document Programs:

Manual of Practice: A loose leaf publication containing concepts and recommended practices for organization and preparation of construction documents. Two more chapters will be published this year, four are in the development stage, and three additional chapters are being planned. There are also plans to review and update the Masterformat. You must review the Manual of Practice to appreciate its value. This publication is essential to an understanding of construction documents.

Spec-Data and Manu-Spec: Over 600 individual product technical data sheets and 50 manufacturer's specifications. These are in a succinct standardized format for easy comparison. New and updated editions are mailed to members periodically.

Technical Aid Series: Comprehensive reference source listings for building components and materials. The production phase of this program is completed, and the information is being included in the Spec Guide program.

Spec Guides: Comprehensive reference and resource guides for writing and coordinating specification sections in an easily used, standardized format. Since Spec Guide information is useful to so many people, this program has the highest priority for completion. Forty Spec Guides are printed, 34 are in final review, 50 are being prepared, and 97 remain to be assigned. It is essential that more of these be completed so that a reasonably complete set of documents can be marketed. We finally have a program which requires participation from all parts of our membership, and gives the industry member an opportunity to share his experience. This program relies upon the expertise of the industry member about a specific component or material, and upon the organization and coordination abilities of the professional member. I urge you to take advantage of this opportunity to participate!

Monographs: Background documents providing technical and design information on any product, system or technology selected by the author. These have a more flexible format and can go broader or deeper into a subject than the more standardized Spec Guide formats. This program presents the opportunity for a person to share experience or special knowledge. Nine are published and nine additional monographs are being prepared.

The Institute would like your ideas about a monograph.

Spec Text: A fully coordinated system of master specifications. These have been under review and improvement since they were published. Periodic updates are included in the subscription to the program. 380 have been sold in hard copy, and 400 on electronic media.

CSI was formed for the purpose of improving construction documents. Our broad base of member participation gives us the most and best input on any publication. All publications are coordinated and reviewed periodically, and updates published as necessary. Consequently CSI documents are respected thruout the industry. I never cease to wonder how CSI programs have improved and simplified the way we produce documents, bid, and build.

Please call your Chapter Technical Chairman and become more familiar with the available Technical programs and participate in advancing our goals.

**Manufacturers
Product Reps
Marketing Staff
Suppliers . . .**

**CSI Professional
Development Seminars
Fall 1986**

**Selling to Design
Professionals
October 2-3, 1986
Chicago, Illinois**

**How to Market Your
Construction Products
October 9-10, 1986
Washington, DC**

**How to Market Your
Construction Products
October 30-31, 1986
Chicago, Illinois**

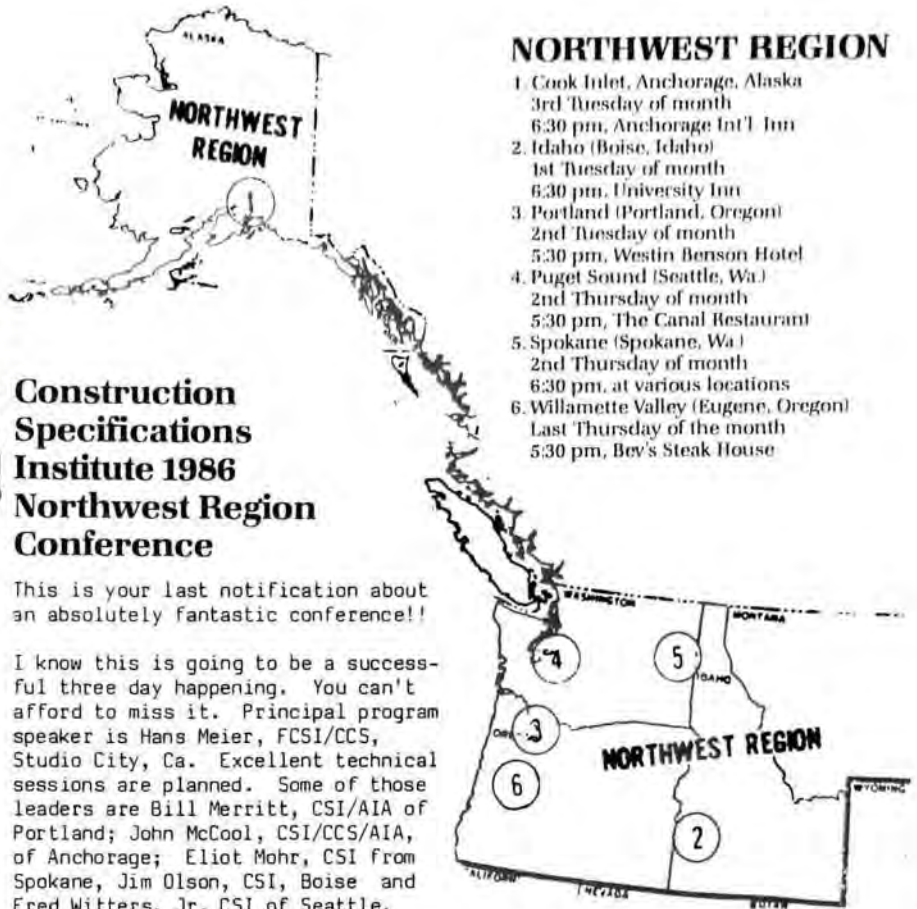
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The Construction Specifications Institute
601 Madison Street
Alexandria, Virginia 22314-1791

**September 24
Bellevue, Washington: 1986 Lenders
Expo.** Sponsored by the SMBA, program will include speakers on real estate, finance and development. From 7:15 a.m. to 8:00 p.m. at the Bellevue Red Lion, Bellevue. Fee: \$40.00 pre-registration for SMBA members, \$50.00 for non-members; includes continental breakfast and lunch. Information: Seattle Master Builders Association, 2155 112th Avenue N.E., Suite 100, Bellevue, Washington 98004, (206) 451-7920, or (800) 522-2209.



NORTHWEST REGION

1. Cook Inlet, Anchorage, Alaska
3rd Tuesday of month
6:30 pm, Anchorage Int'l Inn
2. Idaho (Boise, Idaho)
1st Tuesday of month
6:30 pm, University Inn
3. Portland (Portland, Oregon)
2nd Tuesday of month
5:30 pm, Westin Benson Hotel
4. Puget Sound (Seattle, Wa.)
2nd Thursday of month
5:30 pm, The Canal Restaurant
5. Spokane (Spokane, Wa.)
2nd Thursday of month
6:30 pm, at various locations
6. Willamette Valley (Eugene, Oregon)
Last Thursday of the month
5:30 pm, Bev's Steak House

Construction Specifications Institute 1986 Northwest Region Conference

This is your last notification about an absolutely fantastic conference!!

I know this is going to be a successful three day happening. You can't afford to miss it. Principal program speaker is Hans Meier, FCSI/CCS, Studio City, Ca. Excellent technical sessions are planned. Some of those leaders are Bill Merritt, CSI/AIA of Portland; John McCool, CSI/CCS/AIA, of Anchorage; Eliot Mohr, CSI from Spokane, Jim Olson, CSI, Boise and Fred Witters, Jr. CSI of Seattle.

The play time hasn't been neglected either! The high point (I think) will be the group tour of Oregon High Desert Museum and Lava Lands Visitor Center. Incidentally, all

meals listed in the conference schedule and the bus tour are included in the registration fee.

So, come to Bend...you'll be glad you did!

NOTE We need help in car-pooling those members arriving by plane. If you have room I'm sure our fellow CSI NW Region members will appreciate a ride to Bend. Please leave your phone number and approximate time of departure with Bob Klas at 644-4222 or Inga Vrla at 635-6227.

SCHEDULE—PORTLAND CHAPTER CSI

Board of Directors—1st Tues. each month
Dinner Meeting—2nd Tues. each month

The Portland Chapter CSI newsletter The Predicator is mailed at no charge to CSI members once a month. Additional copies are mailed to selected firms and organizations. Circulation is 900 copies.

Deadline for newsletter contributions—3rd Mon. each month.

The Predicator is mailed the last day of each month.

Advertising Policy:

1 full page insert	
CSI member	\$125.00
Non-CSI member	\$150.00
2 full page insert	
CSI member	\$175.00
Non-CSI member	\$200.00

The Predicator is published 11 times a year.

1986 NORTHWEST REGION CONFERENCE

September 11-14, 1986

THE INN OF THE SEVENTH MOUNTAIN
Bend, Oregon

Host: Willamette Valley Chapter, CSI

YOUR BROCHURE INSERTED IN THE PREDICATOR REACHES OVER 900 PEOPLE!

Please use this form for further information about CSI and what we can do for you.

Send membership information to _____

I would like to join the Portland Chapter CSI _____

I would like to be on _____ committee.

My name _____

Phone _____

Address _____

Clip this form and mail it to John Brockamp, Membership Chairman at the CSI offices, 1125 S.E. Madison, Portland, OR or call John at 655-9151.

PORTLAND CHAPTER LEADERS, 1986-1987

President, Dennet Latham 222-1917
 President-elect, Curtis Finch 222-1661
 Secretary, John Barker 231-9118
 Treasurer, Dennis Obert 245-7802
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REGION RESPONSIBILITIES

for Portland Chapter Members

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 Technical Documents Committee,
 Robert Klas 644-4222
 CSI Appointee to Amer. Arbitration
 Assn. Regional Construction Advisory
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Membership Committee

John Brockamp, Chairman

At the end of July Portland Chapter 36 had seven new members and 246 renewed for a total of 253 active members. The board has committed to 300 members for fiscal 1986-87. So invite a friend to join us!

Member News

Larry and Cristal Arnold have moved from Anchorage, Alaska to Washington, D.C.

Construction Data Corp. has assumed control of the Builder's Exchange as of August 1, 1986.

Jane Sampier, Executive Secretary and Office Manager of the Builders Exchange will assume new duties at Construction Data including public relations as well as directing profile editorials. Tracy Hogenhout will manage the Builders Exchange Plan Center as well as contributing her editorial skills to Construction Data Magazine.

Welcome New Members

Walter E. Allen, Portland Community College
 Jack Bower, Interpace Industries
 Maximus Fernando, Western Engineers, Inc.
 Seaton B. Griswold
 Tony Kasparek, E.R.T., Inc.
 Suana L. Nicholson, Corroon & Black of Oregon, Inc.
 Richard L. Shaw, E.R.T., Inc.

Hospitality Committee

by John Kehrli, Chairman

As chairman of the Hospitality Committee for 1986-87, it is my intention to continue to foster the Portland Chapter's open friendly, professional and approachable reputation.

We will be encouraging table top displays at each meeting. There is a nominal cost of \$20 for non-CSI members which will be applied to membership in CSI and the Portland Chapter if you so desire.

Please call me for details.

John Kehrli, Chairman 644-7102

Institute and Portland Chapter Dues for the year are as follows: Institute \$110.00. Portland Chapter \$20.00. Total investment is \$130.00. Please send your check for \$130.00 payable to the Construction Specifications Institute to John Brockamp, at the CSI offices, 1125 SE Madison, Suite 200, Portland, Or. 97214.

The Predicator

Editor, Inga Vrla
 1125 S.E. Madison, #200
 Portland, OR 97214

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THE PREDICATOR

Advancement of
Construction Technology

Construction Specifications Institute Portland Chapter
1125 SE Madison, Rm 200 Portland, OR 97214 238-1462

Vol. 26 No. 3

October 1986



**From the President
by Dennet Latham**

The program at the region conference in Bend, Or. last month included a panel discussion about general conditions, primarily focusing on the AIA Document A201. During the program a comment was made that some architects no longer require the submittal of shop drawings for review (not approval) during construction. The rationale for this practice is that the contractor is required to comply with the contract documents regardless of submittal of shop drawings, so why go through the process of reviewing yet another set of documents. The review may provide the opportunity for additional conflicts over and above the ones that already exist in the contract documents!

Here are three arguments for requiring submittal and review of shop drawings and product data.

Many times building designs are based on products of one manufacturer, including the exact fabrication details of that manufacturer's product. More likely than not, with a non-proprietary specification, a manufacturer other than the one specified will win the contract; hopefully an approved manufacturer! Since there are no real "equals" on the market it is very likely the successful manufacturer will have details different from the specified product. Thus, it is important to require submittal and review of shop drawings to check compliance of the successful manufacturer with "design intent" for performance, material quality, and appearance.

PORTLAND CENTRAL CITY PLAN

The program topic for the Oct. 14 meeting will be The Portland Central City Plan.

The committee, which is comprised of city employees and local business people will make a presentation of the master plan being designed to guide the development of the central city area for the next 20 years.

This is a preview of a program which is to be presented to the general public soon. Your input will be helpful. We anticipate that this program will generate some meaningful debate and your participation will make it happen!

Where: Westin Benson Hotel

Time: 5:00-6:30 roundtable and social hour
6:30 dinner
7:30 - 9:00 program

Cost: \$15.00

RSVP: CSI offices at 238-1462 by 5:00 pm on Friday prior to dinner meeting.

Friends, spouses and guests are always welcome! Parking is available at the bank parking garage and tickets are validated at the door.

ROUNDTABLE Specification Enforcement

Roundtable discussions will be held before each monthly chapter meeting as an informal gathering to talk about specification topics of interest to members. All members are invited.

Secondly, let us just say that the architect does not know everything there is to know about how certain systems are fabricated and would like to rely on the expertise of certain respectable contractors to construct specific components of a building. The architect does know how the system has to perform but does not know how exactly to assemble all the parts. So, the architect writes a performance specification, asks for a contractor engineered system, and requires shop drawings and engineering calculations for review. It is essential in this case to review the shop drawings to assure compliance with the performance specifications and system design criteria before start of construction.

Finally, if one agrees the success of a construction project is directly proportional to the amount and quality of communication (written and verbal) between contractor, architect and owner, then review of shop drawings and submittals is important to enhance that communication and provide a quick verification that the contractor and architect are even

PROGRAM PREVIEW

Our November program will deal with specification enforcement. Come see our Illustrious, Intelligent and Opinionated Panel of Owners, Designers, Contractors and Suppliers and discuss the bidding and building process, including approvals and substitutions. Bring your comments and complaints.

talking about the same material. A brief look at a submittal early in construction can prevent embarrassing moments for contractor and architect during punch list inspections when specified materials have not been installed.

One can not simply require product data, samples, and shop drawings for architect/engineer review without first considering the situation involved. At certain times, review of shop drawings is essential in order to assure compliance with the contract documents. However, the specifications writer should also consider the burden of shop drawings, product data, and sample submittals on the contractor in time and cost and require these documents only when they will obviously help to improve the final built product.

If you would care to add to this discussion please send a letter to the editor or, better yet, attend the November chapter meeting. There will be a panel discussion on this topic and other topics related to specification enforcement.

Dinner Meeting, 9/9/86

by P. Kilbourn

The September program of the Portland Chapter of CSI was given by Gerry Garbarino of Johnson Controls. His topic could be entitled "A discussion of an intelligent building - Federal Building East".

This is a government building which utilizes the latest in technology for managing the building. There are a lot of computerized systems available and this building is "intelligent" because it connects them and allows the computers to communicate - share information. Garbarino began his talk by discussing the ways intelligent buildings can interconnect computer systems, i.e.,

1. Proprietary lines - install special lines to interconnect systems.

2. Telephone lines - these are usually already installed in older buildings and are usually always installed in new construction.

3. Broadbeam connections.

4. Fiberoptic connections.

The net effect is that computer systems can transfer information so that the building can be managed more effectively. People can be located for messages, meetings can be scheduled in appropriate rooms, temperature can be maintained in a pre-established comfort zone when people are in the building, etc.

The one point which was raised during the question and answer period which I felt was worthwhile dealt with the repercussions in the event of a power failure. Garbarino assured us that each individual system had its own backup electric generator so that with a power failure they could continue to run for three days. I thought about the last two ice storms we had experienced and remembered that both had given us at least five days without electricity. Maybe the weather isn't ready yet for "Intelligent buildings".

In spite of this minor problem, I did enjoy the program and felt that Garbarino is on the leading edge of the newest computer technology.



The owner of this happy face gets a free drink and our dinner meeting. Just identify!



Northwest Region Conference Idaho contingent.

Board of Directors

September 2, 1986

Present: Latham, Barker, Stricklin, Daniels, Brockamp, Largent, Finch, Obert, Josi, Wilson, Woods, Vrla.
Absent: Townsend, Shea.

Meeting opened at 12:13 p.m. Minutes were read and approved.

Treasurer's report: Obert distributed a statement of cash on hand and revised annual budget. We anticipate a negative cash flow until Products Fair income starts in December or January. Line items of budget were reviewed. The planned net loss would stand at \$1725.00. Action to adopt the budget was not taken. Final discussion to take place at next meeting (Oct. 7.)

Long Range Planning: Ehmann absent but Latham reported that copies of the old administrative guide had been sent to past committee chairs and officers to be updated.

Programs: Finch, as president-elect is now also in charge of programs. (This practice from past years has been revived.) The committee met recently, and each member will be in charge of a program. The goal is to have the whole year planned within the next month.

Liaison: Daniels reports progress on their three projects: Seminars; manual; and library. A first draft of the library goals is completed. The plan is to make a final presentation to the Multnomah Co. Library board by their mid-December meeting. The next joint meeting is Sept. 8 at the AIA offices.

Membership: Brockamp reports membership stands at 253. Timing for the new directory was discussed. Goal is a February publication date.

Technical Documents: Wilson announced the committee will meet on Sept. 25. Deadlines approaching for three spec-guides. Application is

being made to write two monographs.

Products Fair: Woods reports progress. A contract for Montgomery Park is in hand and awaits committee discussion. A graphic artist has been retained. This year Joe is planning a small number to table top displays on the mezzanine. Whether to include a speaker and chapter dinner was also discussed but no decisions have been reached. A first mailing is planned for the end of this month.

The Predicator: Vrla reported 874 issues were mailed. The new colored masthead was well received by the Board.

Education: Latham announced that a new chairman is needed.

Meeting was adjourned at 1:24 p.m. Respectfully submitted: John Barker, Secretary.



Likewise ...

Board of Directors Meeting at 12:00 SHARP on October 7, 1986 at CSI offices, 1125 SE Madison, Room 200, Portland, Or. Please report to Dennet Latham if you are unable to attend.

BS by KS

Basic Specs by Ken Searl

It seems we have a problem in certain areas and the problem is enforcement of specifications. A lot of time and research is put into the preparation of a set of specifications and then in many cases the firm that wrote them will let anyone ignore them and install whatever they want as long as the rascal fits and doesn't look too horrible. I have heard many times it doesn't pay to get your product specified because some firms will bid without any kind of approval. In many cases their product isn't at all what was specified or desired.

At the CSI 1986 Northwest Regional Conference held near Bend, Oregon on Sept. 11-13, an ad hoc committee came up with the items as following: (No, I was not a member of this committee, but as we say in the CB world I had my ears on.)

Yes, there is a problem and it seems to be getting worse. It appears in the Seattle market if you pick up a specification and read it you are in trouble. It also appears the rest of the country is experiencing similar problems. Personally, I just can't figure it out. Why anyone would take the time and trouble to write a good specification and then not enforce it is beyond me.

One firm stated that of 100 jobs lost to competitors, approximately 94 or 95 had never submitted for approval and were not in the specifications or the addenda. A statement was made regarding the Portland area saying it appeared approximately 94 or 95 firms were generally enforcing their specifications. Some firms were more or less enforcing them and the rest were in the I don't give a hoot variety. One Washington firm stated they were definitely enforcing their specifications but here of late they were encountering much pressure to accept all kinds of products after the bid and some suppliers just did not understand why their product wasn't acceptable.

It was suggested that questionnaires be sent throughout the country requesting information as to how many products were installed without prior approval. I have been told the time is coming, and very likely in the near future, that if the specifications are not adhered to in general there is a good chance that suits will be entered in the courts. The people that wrote the specifications will be sued for allowing anyone to violate the specifications and supply most anything they want to whether it is specified or not.

How about it out there in your area? Is this going on or not and if it is, do you have any idea what causes the condition and can we do anything about it or do we want to.

Oh yes, if you didn't make it to the conference held at the Inn of the Seventh Mountain near Bend, Oregon, you missed a most excellent meeting. Believe me it was one of our better ones and the weather was excellent.

One last item I want to tell you about is a new product referred to me by Wilburn Dodge of Washington County Fire District No. 1. The product is called KBS Sealbags and it is for through penetration fire stops. It has UL and FM ratings of 3 to 4 hours and when properly handled is expected to last at least 50 years.



Guests at Willamette Valley Hospitality Suite

**Technical Session II
NORTHWEST REGION
CONFERENCE**

"Fairness" in contracts is an implied condition.

"Errors" are more likely to be excused if documented, i.e., typographical.

The panel members discussing the General Conditions were John McCool, Cook Inlet, Peter Hamre, Spokane, Fred Witters, Puget Sound, Jim Olson, Idaho and Bill Merritt, Portland.

Some of the questions discussed were:

- * When does the meter start running on guarantees and/or warranties?
- * Should there be qualification of contractors, realizing there is no such thing as exceptional, only acceptable?
- * Should sub-contractors see the complete set of bid documents including the General Conditions?
- * How can the General Conditions be improved?
- * Why not have the architect handle the money (re. retainage and its unfair handling)?
- * Line item retention - should it be in specifications?
- * Define "reasonable"...Merritt: "The judge determines this.."
- Meier: "Use AIA 201 - say it once, say it right, and you won't need a lawyer."



Rod Erickson, North Central Region Education Chairman with Bob Klas, Northwest Region TDC.



Roundtable discussions.



Region Business Meeting in session.

WELL DONE, JIM ROBERTSON AND THE WILLAMETTE VALLEY CHAPTER!



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Approximately 115 people attended the Northwest Region Conference in Beist, Oregon September 11-14, 1986.

Terry Strong, FCSI, Southwest Region LARPE Chairman, brought his slide show of institute activities (had a few bad moments when it turned out the airline "lost" his luggage). Ray Rieger, FCSI, Institute VP and Detroit Chapter President had plenty to say about the 1987 National Convention in Detroit, Michigan.

Rod Erickson, Minneapolis and North Central Region Education Chairman and Joe Dworkin, San Francisco, West Region Technical Chairman put in their "two cents worth" at various discussion groups and technical sessions.

Inna Meier, FCSI, Los Angeles, was our feature speaker and technical session leader. During his comments at the Awards dinner, he told a story which he attributed to M. A. Hutchins...something about "nervous litters in the audience..." When next I see her, I'll have to ask if she did indeed tell him that joke!

Other "out of town" guests were a couple of creatures from the north working up some enthusiasm for the next Region Conference in Anchorage in 1987.

Someone told me Bob Fritch was responsible for the menu. If that was so, his choices and the capabilities of the chef and crew at the Inn made each meal a memorable one! Our accommodations were fine and the friendliness and many courtesies shown us by the Inn of the Seventh Mountain all contributed to a wonderful and informative weekend. The weather wasn't too shabby either.

1 Willamette Valley Chapter members, Jim Bernhard, Jim Robertson, Leo Stauber, Linn West, Gil Galles. 2 Don Paine, FCSI, Awards dinner speaker. 3 Ray Rieger, FCSI, President of Detroit Chapter and his wife Joyce with Kris Eriksen, Cook Inlet Chapter. 4 Perky Killbourn, Margie Largent, Mr. & Mrs. Ken Nagao (W.V.), Elfriede Paine, Olympia. 5 Hans Meier and "friends" at luncheon. 6 Hans Meier, FCSI, Awards dinner speaker.

Spouses Program NORTHWEST REGION CONFERENCE

Willamette Valley Chapter of CSI outdid itself for the Spouses Program of the 1986 Northwest Region Conference!

As many of you know I often sneak into the Technical Programs because of frustration with the Spouse program. This time I didn't and I am glad - it was excellent!

We arrived Thursday evening and enjoyed a welcoming reception and dinner. I remember being impressed by how attractive the dinner plate looked and discovered why, on Friday morning when I met the chef. He showed us how to make common healthy foods attractive even if one usually didn't do more than cut radishes in quarters and allow them to spread into a flower by soaking in cold water. Other vegetables such as onions and carrots can be treated the same way. He also made a melon basket which looked so simple to make I think I will be making one for our next party. After admiring two salads that he made and decorated, the spouses joined each other for lunch.

Carl Davis discussed "Pre-history of Central Oregon". Davis is what I would call an archeologist-anthropologist because he is interested in early primates and how they interacted with each other and their environment. I talked to him after the luncheon and discovered a couple of bits of information. First, his wife is also an archeologist-anthropologist and they just co-authored a paper on flint making and second, that this is the topic which he worked on for his Master's thesis and third, that "Clan of the Cave Bear" etc., are really quite accurate for being fiction.

After lunch the spouses had a personal color analysis. The morning program had been sexually diverse with both male and female spouses in attendance, but the afternoon was not. Perhaps it should have been, men could use the techniques as well.

Friday evening was an excellent buffet dinner with a relaxed western theme.

Saturday morning was the First Annual Dencie Miniature Golf Tournament. I was willing to try and found four other willing spouses and had a surprising good time hitting the little ball around 18 holes. I discovered though, that in spite of my protests that the highest score won, the judges determined that Dencie's (Edlund) low score won!



Saturday luncheon was followed by another speaker, this time on the geology of Central Oregon. I was pleased to learn that much of the information I had carefully memorized in grade school was still accurate. I did not get a chance to get Lawrence Chitwood's Master's thesis title as I had the day before with Carl Davis, because we were late and needed to be on our way to tour the Oregon High Desert Museum and the Lava Lands Visitor Center.

That evening we were treated to an excellent dinner of Chicken Wellington and the Awards Banquet. Lee and I stayed over Saturday night and went white water rafting with Jack and Rosemary Hansmeyer, (Cook Inlet). We had our picture taken in the white water and if we are recognizable, I'll give a copy to Inga as evidence THAT WE DID IT!

All in all an excellent Region Conference, especially the spouses program which was enjoyed and suitable for both male and female spouses. Well done, Jim Robertson and the Willamette Valley Chapter!

by Perky Kilbourn

NORTHWEST REGION

1. Cook Inlet, Anchorage, Alaska
3rd Tuesday of month
6:30 pm. Anchorage Int'l Inn
2. Idaho (Boise, Idaho)
1st Tuesday of month
6:30 pm. University Inn
3. Portland (Portland, Oregon)
2nd Tuesday of month
5:30 pm. Westin Benson Hotel
4. Puget Sound (Seattle, Wa.)
2nd Thursday of month
5:30 pm. The Canal Restaurant
5. Spokane (Spokane, Wa.)
2nd Thursday of month
6:30 pm. at various locations
6. Willamette Valley (Eugene, Oregon)
Last Thursday of the month
5:30 pm. Bev's Steak House



Portland Attendees NORTHWEST REGION CONFERENCE

Portland people at the Region Conference were John Brockamp, Lee and Perky Kilbourn, Ken Searl, Inga Vrla, Margie Largent, Andy and Barbara Olson, Curt Finch, Dennet and Claire Latham, Bob and Mary Ann Klas, Dick and Rose Ann Gira, Jim Peterson, Tom Shea, Don and Arlene Walton, Tom and Carol Clucas, Joe Woods.

Portland Chapter award winners. Inga Vrla, editor of The Predicator accepting award for "Newsletter Excellence" from John Greiner, Region Director and Bob Klas, Region TDC who received award for "Technical Excellence" from Dick Gira, Region Director. Cliff Hutchins (Cook Inlet) Northwest Region Awards Chairman is at the lecturn.





Don Paine, FCSI with John Greiner (Seattle) and Ruthie Nordling (Spokane). Sounds like more than idle chit-chat.



Mr. and Mrs. Bob Hesseltine (Cook Inlet), Inga Vrla, Perky & Lee Kilbourn, Lynn Critchfield (W.V.).



Andy Olson and his wife Barbara (Portland) enjoy a drink with Mr. & Mrs. John Greiner.

Rountable Discusses Programs NORTHWEST REGION CONFERENCE

The Willamette Valley Chapter has followed a pattern of program scheduling that may be one of the reasons for their success in strong regular attendance. Their members come to rely on the schedule.

The Economic Forecast is their best attended program and it, as an example, is scheduled for the same month each year.

Other suggested regular programs would be a program on "Current State of the Arts Technology". All chapters represented felt that panel discussions on Construction Conditions from bidding to closing were always popular.

"Insurance/Legal" topics were felt to be very critical at this time.

Liaison with other construction groups was desired but hard to put together as a program. But we should keep trying....

"Specifications" - the preparing of, the reading of, and the use of was the underlying current of this roundtable as it was the whole conference.

Maybe a Basic Specs (B.S.) night could be a Portland goal for a regularly scheduled program. What do you say K.S.?



Cook Inlet "critters" doing a song and dance for the 1987 Region Conference in Anchorage.



Margie Largent, Don Walton and Lee Kilbourn, FCSI.



Joe Dworkin, West Region Technical Chairman, Joe Woods (Portland), Dave Thomas (Seattle), Rod Erickson (Minneapolis).

Margie Largent



Tom Clucas (Portland) with Rosemary and John Hansmeyer (Cook Inlet).

Developers Contractors Architects Owners . . .

CSI Professional Development Seminar

Design-Build Contracts
Problem or Panacea?
November 6-7, 1986
Fort Lauderdale, FL

A symposium in current
construction trends

- What is design-build?
- Why are owners choosing design-build?
- What are the risks?
- How does a design firm do construction?
- How does a contractor do design?
- Changing roles and responsibilities involved parties
- Impact on construction documents
- Legal concerns

For more information
CALL
Sally Brasse
(703) 684-0300



The Construction Specifications Institute
601 Madison Street
Alexandria, Virginia 22314-1797



Do you believe this! Dick and Bonnie!

Letters to the Editor

I just finished reading the August Predicator and congratulate you and your crew for receiving the CSI Publications Award. I know your new look and effort will be even better than the very informative 85/86 bulletin.

I was impressed reading about the circulation of The Predicator. Your circulation will be expanded to overseas if you will be kind enough to change my mailing address to that shown above (NEACOM Project USREP/JCCOR, APO NY, NY 09038-7001). I will enjoy receiving The Predicator at my new duty station in Riyadh, Saudi Arabia. Present plan is I will be there for two years, still working for GSA on assignment with Saudi Ministry of Hospitals. Work will be in an advisory capacity, work on guide specs for the Saudis! Best regards, Walt Bishop, FCSI (Thank you Walt, consider it done! ed)

1986 Excellence in Concrete Awards

Design—Concrete—Construction—Industry

Nominations will be accepted until Nov. 30, 1986 for any and all of your concrete projects worthy of recognition.

Judging will take place in January. Winners will be notified immediately and invited to awards banquet and ceremonies which are scheduled for Feb. 13, 1987.

The award is intended to promote the use of concrete by acknowledging imaginative, extensive and/or aesthetic applications of concrete. Competition is divided into six categories: Industrial, Commercial, Residential and Public Buildings, Public Utilities, and other.

Award plaques are cast in concrete in the shape of Oregon. These plaques will be given to the architect, engineer, contractor, project owner and the ready mixed concrete supplier for each award-winning entry, with their name(s) engraved on an affixed bronze plate.

For further information or nomination forms contact John Pove and/or Dan Hoffman, co-chairmen, Oregon Concrete & Aggregate Producers Assn., Inc., 5000 Market St., N.E. #222, Salem, Or., 97301. Phone (503) 588-2430.

Please use this form for further information about CSI and what we can do for you

Send membership information to _____

I would like to join the Portland Chapter CSI _____

I would like to be on _____ committee

My name _____

Phone _____

Address _____

Clip this form and mail it to John Brockamp, Membership Chairman at the CSI offices, 1125 S.E. Madison, Portland, OR or call John at 655-9151

SCHEDULE—PORTLAND CHAPTER CSI

Board of Directors—1st Tues. each month
Dinner Meeting—2nd Tues. each month

The Portland Chapter CSI newsletter The Predicator is mailed at no charge to CSI members once a month. Additional copies are mailed to selected firms and organizations. Circulation is 900 copies.

Deadline for newsletter contributions—3rd Mon. each month.

The Predicator is mailed the last day of each month.

Advertising Policy

1 full page insert	
CSI member	\$125.00
Non-CSI member	\$150.00
2 full page insert	
CSI member	\$175.00
Non-CSI member	\$200.00

The Predicator is published 11 times a year.

PORTLAND CHAPTER LEADERS, 1986-1987

President, Dennet Latham	222-1917
President-elect, Curtis Finch	222-1661
Secretary, John Barker	231-9118
Treasurer, Dennis Obert	245-7802
1985-1986 President, Margie Largent	636-6977

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Peter Daniels, Prof. '88	656-7081
Roy Josi, Prof. '88	226-8462
Tom Shea, Ind. '88	760-6433
John Brockamp, Ind. '87	655-9151
Jolie Stricklin, Pro. '87	221-1421
Bruce Townsend, Pro. '87	228-6444

COMMITTEE LEADERS

Awards: Jolie Stricklin	221-1421
Certification: Lee Kilbourn	224-3860
Editor: Inga Vrla	635-6227
Education: Dennis Destefano	224-3860
Hospitality: John Kehrl	644-7102
Liaison: Peter Daniels	656-7081
Library: Candace Robertson	222-3753
Long Range Planning: Richard Ehmann	644-4222
Membership: John Brockamp	655-9151
Products Fair: Joe Woods	232-4000
Programs: Publicity: Joe Woods	232-4000
Technical Documents: Paul Wilson	226-0622

REGION RESPONSIBILITIES for Portland Chapter Members

Institute Specification	
Competition Committee, Lee Kilbourn	224-3860
Technical Documents Committee, Robert Klas	644-4222
CSI Appointee to Amer. Arbitration Assn. Regional Construction Advisory Committee, Wm. Merritt	223-8590
Nominating Committee, Margie Largent	636-6977
CCS/Certificate Chairman, Ken Searl	223-1181

REGION DIRECTORS

John Greiner	(206) 455-5236
Greiner & Assoc. P.O. Box 1927 Bellevue, Washington 98009	
Richard Gira	(503) 224-8226
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Membership Committee John Brockamp, Chairman

Bob Klas, Region IDC and Curt Finch, Program Chairman (President-elect) are planning programs of special interest to members, new and old alike. The November program will be dealing with specification enforcement. We probably will not cover all the issues in one session, but this program should give all some food for thought.



Hunt Jones and Kerry Morse.

Hunt Jones and Kerry Morse have joined to form K & H Commercial Interiors, a company specializing in window coverings. Their offices are at 11700 N. E. 95th St., Suite 170, Vancouver, Wa. 98662. Phone 254-9413.

Institute and Portland Chapter Dues for the year are as follows. Institute \$110.00. Portland Chapter \$20.00. Total investment is \$130.00. Please send your check for \$130.00 payable to the Construction Specifications Institute to John Brockamp, at the CSI offices, 1125 SE Madison, Suite 200, Portland, Or. 97214.

The Predicator

Editor, Inga Vrla
1125 S.E. Madison, #200
Portland, OR 97214

Address Correction Requested

Welcome New Members

As of August 1986 we have 259 active members, having added eight new people!

Please give a warm welcome to:

Cora Carsner, Interpace Industries
Richard Heiserman, WEGroup Architects
Dan Hightower, Indian Health Service
Edward Kirschbaum, RKA & Assoc.
Doug Knutson, Ray S. Becker Co.
Jeff Mendes, Smithwick Western Block
Don Presley, O. C. Fiberglas Co.
A. M. Wilson, Curas Industries (Bend)

Our goal for FY 1986-87 is 300 total membership in the Portland Chapter. Now is your chance to "root for the home team" and bring a friend or associate or competitor to our meetings. Let's tell people what we (CSI) are all about!! GO FOR IT!

BULK RATE
U.S. Postage
PAID
Permit No. 1737
Portland, OR

Dated Material

03/111
Robert R. Klas
R.C. Ehmann & Associates
6775 S.W. 111th Avenue
Beaverton, OR 97005

! RSVP: DINNER MEETING — 238-1462 !



Panel to Discuss Specification Enforcement!!

Where: Westin-Benson Hotel

Time: 5:00-6:30 Roundtable and
social hour,
6:30 Dinner,
7:30 - 9:00 Program.

Cost: \$15.00 - No host bar

RSVP: CSI offices, 238-1462 by
5:00 pm on Friday prior to
dinner meeting.

Friends, spouses and guests are
always welcome! Parking is available
at the bank parking garage and
tickets are validated at the door.

Don Walton to Moderate Panel Discussion

There is a growing concern in our industry relative to manufacturers and suppliers bidding on projects without gaining approval prior to bidding and general contractors accepting these bids, not knowing if they are in fact approved!

These and other questions will be discussed at the November dinner meeting. Don Walton will be the moderator for what promises to be a very provocative program! Please come prepared to exchange your experiences, as well as offer suggestions. This appears to be a problem of national concern, and will be the subject of debate at the CSI National Convention in Detroit next year.

We have an impressive group participating in our panel discussion. For the owner: Wayne Stroud, Construction Manager, Albertson's Stores, N. California, Oregon & Washington.

For the contractor: John Brockamp, Brockamp and Jaeger, Milwaukie, Or.
For the supplier: Dave Thomas, Thomas Architectural Products, Woodinville, Wa., past Region Director.
Representing Corroon & Black Insurance Co., Wade Coyendall, Sr. VP, Commercial Ins. Div., Jim Darby, Sr. VP, Surety Div., Suana Nicholson, Asst. VP, Commercial Ins. Div.
For the architect: Daniel Huberty, partner, Zimmer Gunsul Frasca Architects.
For the manufacturer/supplier: Donald Walton, Western Regional Manager for Modernfold Industries.

From the President by Dennet Latham

Roundtable discussion will cover the bidder-designed building components. This is an area of great concern to Portland Building officials, and certainly should be our concern also. I expect this could be a very provocative discussion! Plan on sitting in!

New Substitution Request Form

A committee of members of the North West Region agreed at the Region Conference on changes to the Portland Chapter CSI substitution request form. The revised form is intended to be more comprehensive yet easier to use with the responses more easily understood.

Provisions have been added about maintenance and service parts and requires that data ALWAYS be attached. The form cannot stand alone. It is also intended that the form which appears in the Predicator this month be reproduced and used immediately!

Several forms were submitted for committee review which contained additional requirements and signature spaces, i.e., owner's signature. The committee recommends that these be on a separate page or that this form be printed on 8-1/2" x 14" paper.

Board of Directors, 10/7/86

Present: Latham, Barker, Stricklin, Brockamp, Largent, Finch, Obert, Townsend, Josi, Shea.
Absent: Daniels

Meeting opened at 12:07. Minutes were approved as read.

Treasurer's Report: A motion to approve the budget with \$1765 deficit received a second and was unanimously approved. Purchase of library materials (\$1,000) will wait until Products Fair income starts in Jan. Obert is to obtain a second bill from the insurance company. Our understanding is that the premium is annual, not semi-annual. Dennis also noted a misplaced check from Uni-Strut for Products Fair had not been cashed in a timely manner last year and was returned. He will pursue this also.

Nominations: Largent says she has not yet been inundated by volunteers.

Certification: Kilbourn reported our region enjoyed a large "pass" rate on last year's exam. Study guides are to be available for the upcoming season. Promotional efforts are being planned.

Education: Latham has appointed James Peterson to replace Dennis Destefano as chairman. Seminar topics are under discussion as are time slots, i.e., before meetings or Products Fair.

Long Range Planning: Ehmann expects responses by Nov. 1 from contributors to the chapter operations manual.

Programs: Finch is making progress.

Membership: 265 members to date.

Technical Documents: Monograph application has been submitted. The request form is almost done.

Products Fair: The board informally approved Woods' proposed rates for exhibit space. \$450 base, \$75 discount for early registration by 2/1/8, \$50 member discount. This compares with \$440, \$70 and \$30 respectively for last year. The first mailing, an informational letter is slated for later this month. The actual brochure will follow in early December. There will be 150 past and 1100 new exhibitors. A number of table tops for \$200 will be available on the mezzanine. No speaker is planned.

Old Business: AIA/CSI golf tournament was held Friday with some 20 participants.

Meeting adjourned at 1:23 p.m.
Respectfully submitted, John Barker,
Secretary.

MATERIALS

Testing specification problems can have considerable impact

by Ronald A. Shaffer, senior project engineer, Twin City Testing Corporation
(An article series on recurring problems in construction materials)

Given the time/budget constraints placed upon architects and others who prepare plans and specifications, preparation of a "perfect" set of plans and specifications seems nearly impossible.

Over the course of a construction season we at TCT see well over 2000 different sets of specifications for construction of a wide variety of structures. We are constantly surprised by what the plans and specifications contain and what they do not contain.

For example, a specification for a recent Minneapolis project required usage of a "filter sand" but provided no gradation. The sand brought to the site as the filter material contained a large quantity of clay and drained only slowly.

In another set of specifications we found the logs of the soil borings put down for the building, but the sketch showing boring locations was not included, nor were the borings shown on the plans.

In still another local building the backfill was specified to be a clay with less than 15% passing the 200 size sieve. (Anything with less than 15% passing the 200 sieve is a fairly "clean" sand or gravel.)

These examples are pretty obvious, but we have also discovered less-obvious problems with testing specifications that had considerably more impact on construction.

A spec-writer should not be expected to be an authority on all facets of construction, among them testing. However, a construction testing firm is a source of experienced personnel who can help answer questions about testing and materials.

From Minnesota Chapter Newsletter Specifics 9/86



Dinner Guests

CSI/AIA Golf Tournament Winner!

Kerry Shampine, of Van Gulik, Oliver Assoc., Lake Oswego professional engineering firm, shot a low 75 to win the CSI/AIA Golf Tournament at Forest Hills.

Kerry was presented with a new trophy donated by the Masonry/Ceramic Tile Institute. Plans are already under way for next year's tournament with Kerry as chairman.

by Paul Wilson, CSI of Miller-Cook Architects.

Conference on Roof Problem Analysis and Reroofing Options

A one-day program devoted to roof performance and reroofing design considerations.

The conference is designed for architects, engineers, specifiers, general contractors, building owners, plant engineers, maintenance supervisors and roofing contractors. The conference is open to all individuals interested in the reroofing decision and in problems associated with reroofing design and performance.

This conference will take place in Seattle on Dec. 10, 1986 and is presented by National Roofing Contractors Association (NRCA). Registration fee is \$160, which includes conference material and a luncheon and continental breakfast.

For more information contact NRCA Education Dept., P. O. Box 3129, Oak Park, Illinois 60303. Phone (312)693-0700.

Schlage Lock Offers Door Prep and Template Guide Book

Schlage Lock Co. has available the 1986 Door Preparation Manual and Template Guide Book. The manual includes door preparation information for all products manufactured by the company. A registry return response card is included with each manual so that users can be kept on the company's mailing list. For more information on the manual, contact Schlage Lock Co., Customer Service Marketing Division, 2401 Bayshore Blvd., San Francisco, CA 94134.

SUBSTITUTION REQUEST FORM



Advancement of
Construction Technology
The Construction Specifications Institute
Northwest Region

TO: _____

PROJECT: _____

SPECIFIED ITEM: _____

Section	Page	Paragraph	Description

The undersigned requests consideration of the following

PROPOSED SUBSTITUTION: _____

Attached data includes product description, specifications, drawings, photographs, performance and test data adequate for evaluation of the request. Applicable portions of the data are clearly identified.

Attached data also includes description of changes to Contract Documents which proposed substitution will require for its proper installation.

The undersigned states that the following paragraphs, unless modified in attachments, are correct:

1. The proposed substitution does not affect dimensions shown on Drawings.
2. The undersigned will pay for changes to the building design, including engineering design, detailing and construction costs caused by the requested substitution.
3. The proposed substitution will have no adverse effect on other trades, the construction schedule, or specified warranty requirements.
4. Maintenance and service parts will be locally available for the proposed substitution.

The undersigned further states that the function, appearance and quality of the Proposed Substitution are equivalent or superior to the Specified Item.

Submitted by:

Signature _____

Firm _____

Address _____

Date _____

Telephone _____

For use by Design Consultant

Accepted Accepted as noted

Not Accepted Received too late

By _____

Date _____

Remarks _____

Attachments:



*Advancement of
Construction Technology*

In conjunction with its November meeting
The Portland Chapter of the
CONSTRUCTION SPECIFICATION INSTITUTE

presents a seminar on

**THE FUNDAMENTALS OF
SPECIFICATION
WRITING**

November 11, 1986

1:30 - 5:00

Westin Benson Hotel

SCHEDULE

1:30 Registration
1:45 Introduction
2:00 Parts I & II
3:15 Break
3:30 Part III
4:30 Questions
5:00 Roundtable
5:30 Social Hour
6:30 Dinner
7:30 Program : "Specification Enforcement"

INSTRUCTOR :

Paul Edlund,
FCSI/CCS/AIA
32 years experience in
Architecture and
Construction Specification

COURSE FORMAT :

PART I : An overview
of Contract Documents
PART II :
Explanation of the CSI
Specification format
PART III :
Specification language

MAIL REGISTRATION AND CHECK TO :

NAME _____
COMPANY _____
PROFESSION/BUSINESS _____
ADDRESS _____
TELEPHONE _____

Portland Chapter
Construction Specification Institute
1125 S.E. Madison St.
Portland, OR 97214

Fee \$25 (\$30 after Nov.7)
includes copy of course materials
and Dinner

THIS COURSE IS WORTH THREE
HOURS TOWARDS ONE IDP UNIT

Questions : 238-1462

BS by KS

Basic Specs by Ken Searl

Recently our office received a copy of the revised Oregon State Code Limits of Lighting Energy. Haven't quite figured out how they arrive at their requirements. Office buildings have been reduced 30% from 2.5 watts per square foot to 1.7 watts per square foot. In my office I am now past the maximum allowable lighting power density by 15% or more. My office is an inside office with no windows so less lighting is not the answer and task lighting won't cut the mustard either. Nothing in the requirements forces us to change our lighting but on new installations things are going to be sticky wicket.

It seems to me big brother should clean up his own house before telling everyone else how to save energy. An example of what I am referring to is highway and street intersection lighting. In my opinion 30% to 50% of highway and major street intersection lighting could be cut out and still be plenty safe. I believe the highway department is aware of the situation because I note in the early morning hours the east lights where I-5 joins I-205 are not on. It is also very evident they are not needed because the west lights on the southbound section are more than ample. If all the lighting at this major intersection was installed between the two roadways think of how many lights and power consumption could be saved. Two sets of lights in this area and many others are in most cases not necessary.

On a recent trip to California we noted that they are not quite so heavily into lighting as we are. You may have noticed our underpasses and tunnels are usually loaded with lighting, not so in California. I am wondering how much money is expended in Oregon each year on highway and street intersection lighting and how much could have been saved in the original installations if less lighting had been installed. Kind of boggles the mind doesn't it?

One other new lighting requirement that bothers me is parking lots which have been reduced from 0.1 to 0.05 watts per foot or a reduction of 50%. With all the muggings, etc. going on in parking lots, is this a good time to cut lighting density.

While in California I visited a CSI chapter meeting which opened my eyes to a number of things all chapters should be careful to avoid. The chapter I visited was contacted and reservations made for two people by name. When we arrived our money was taken and guest badges were given to us. We went into the meeting room area and stood for 15 to 20 minutes without anyone saying boo or hello. I stopped a member who happened to be the president and he talked to us briefly and then moved on. We then stood another 20 to 25 minutes with no apparent notice that we were even there. Dinner was called and everyone began sitting down. Finally when it got to the last table we did sit down with several members and one other guest. These people turned out to be nice folks and we enjoyed our meal and conversation. Just before we sat down for dinner we had considered leaving and I guess we would have if we hadn't already paid. It was also noted their sound system was bad and guest speakers were hard to understand.

It appears to me local chapters should have a high priority for any and all guests. If someone from your area comes to your meeting with the possible intent of joining CSI and the treatment to that person is indifferent you can bet your bottom dollar that person will not be as apt to join the CSI as one that is treated with more attention and friendliness.

One final item and I will be quiet. I received a letter from the CSI Institute offering "For Members Only" a special gold credit card with fees free the first year and \$30.00 a year thereafter. A statement was made of how much prestige this card carries. Prestige to whom? The person you are giving it to for payment probably couldn't care less. The interest rate and the yearly charges on this card are higher than many other standard cards so why bother? What I am asking myself and the rest of you out there is should the CSI be spending time and effort on such an undertaking. I have a feeling there is some money to be made and this is the primary reason. I certainly feel the CSI shouldn't be in this type of activity. Am I wrong in my opinion or do others out there agree.

PS to BS by KS

Hello to Walt Bishop.

CSI Holds Annual Specifications Competition

The Construction Specifications Institute is holding its annual Specifications Competition, inviting all firms preparing Project Manuals to participate. These awards acknowledge the skill, effort, experience, and depth of knowledge required to prepare the specifications and to coordinate the many technical, administrative, and procedural documents that make up the project manual. There are 11 entry categories which include educational buildings, institutional buildings, warehouses, landscaping and site improvement, and engineering projects. There is no entry fee. For more information, contact George R. Hockett, Technical Program Coordinator, CSI, 601 Madison St., Alexandria, VA 22314-1791; (703) 684-0300.



Ed Fatz, Terry Williams

There was an error in Ken Searl's October column. In the fourth paragraph, the sentence beginning with, "A statement was made..." should read "10 or 12 firms" not 94 or 95. The computer did it!

Dinner Meeting, 10/14/86

by P. Kilbourn

Portland Central City Plan

David Pietka, member of the steering committee for the Portland Central City Plan and Dean Smith, Manager of the Central City Plan spoke at the October Portland Chapter CSI meeting.

Dean was first and discussed the efforts being made to make the city a more liveable place. For example, Portland needs more housing downtown. There are several downtown or near downtown areas which are being considered as sites of housing developments.

There is a suggestion of moving I-5 away from the east side of the Willamette river so the east side would be as accessible to the public as the west side.

David then presented the opportunities of various areas and the need to balance housing, retail space, office space and industrial space and the priorities for how space is used. There needs to be a balance between housing and jobs.

David talked about some specific areas that are being evaluated and on which input is being requested.

The tentative time schedule for the Portland Central City Plan is to have it presented in January and then adopted next June.

They concluded the program by suggesting that anyone who wanted to be kept informed on what was happening should leave a business card. Since yours truly is moving her laboratory downtown I decided it would be in my best interest to be kept informed and gave them my business card.

I felt it was a very worthwhile meeting and enjoyed the program. There were about 55 in attendance, less than those who reserved...so those who reserved and didn't show will be getting a bill in the mail.

Members of the Oregon Building Congress were guests of CSI at this meeting.



Dean Smith

David Pietka

If the Earth
were only a few feet in
diameter, floating a few feet above
a field somewhere, people would come
from everywhere to marvel at it. People would
walk around it, marvelling at its big pools of water,
its little pools and the water flowing between the pools.
People would marvel at the burps on it, and the holes
in it, and they would marvel at the very thin layer of gas
surrounding it and the water suspended in the gas. The
people would marvel at all the creatures walking around the
surface of the ball, and at the creatures in the water. The
people would declare it precious because it was the only
one, and they would protect it so that it would not be hurt.
The ball would be the greatest wonder known, and people
would come to behold it, to be healed, to gain knowledge,
to know beauty and to wonder how it could be.
People would love it, and defend it with their lives,
because they would somehow know that their
lives, their own roundness, could be
nothing without it. If the Earth
were only a few feet
in diameter.*

Another unknown

Roundtable

Attending the October pre-program "round table" discussion on SPECIFICATION ENFORCEMENT were Bob Klas, moderating, Ken Searl, Lee Kilbourn, John Kehrli, Ray Totten, Rick Heiserman, Margie Largent, Neal Jacques, Kathy Delaney & Tim Sullivan (new members). Dick Ehmann and Tom Harmon were late arrivals and our Pres. Dennet Latham checked in. A lively, informative, inquisitive discussion previewing the November program of the same name!

Seminar Announced

Ed Charles announced that the fundamentals of specification writing will be the subject of the first educational seminar. This program is scheduled for Nov. 11, 1986 starting at 1:30 and continuing thru to 5:00 pm. Mr. Paul Edlund, FCSI, Specifications Consultant from Eugene, Oregon and a member of the Willamette Valley Chapter will be the facilitator. Conveniently, this seminar will be held at the Westin-Benson Hotel and participants are encouraged to attend the chapter dinner meeting as well.

Responsibility Challenge

The following is a synopsis of a speech presented at the CSI Tri-Region Conference at St. Louis, Mo. Aug. 21-23, 1986. The speaker was Judge James B. Deutsch, speaking on the Responsibility Challenge. The Judge was the Administrative Hearing Commissioner for the Hyatt Regency bridge collapse in Kansas City.

Addressing the problem of serious structure failures were some of the following significant comments:

Rather than try to single out who is responsible for a problem, during the construction process, we need to work together to resolve problems as they arise, restore and promote the TEAM EFFORT concept.

It is a question of responsibility vs liability.

Liability is a backward-looking process...after the failure.

Current crises - malpractice, lawsuits, liability and responsibility.

Regulatory Commissions are not concerned about blame, they are concerned about qualifications of Professionals in responsible positions, i.e., architects, engineers, contractors, etc.

Being a licensed professional adds to your responsibility. It is understood that Professionals as a matter of necessity have to delegate and depend on non-licensed individuals. Licensed individuals have an inforible responsibility to act to safeguard society from harm or injury.

Responsibility cannot be transferred.

Sufficient money must be allocated to pay for expected responsibilities, otherwise you can expect a continuing problem.

In the USA there is one attorney for each 356 persons; in Japan one for each 9,600 persons.

Architects are looked upon as leaders.

In Germany a Proofing Engineer checks all drawings for errors, omissions and conflicts.

"Or Equal" creates problems finding an equal.

Shop Drawings require proper checking and approvals.

"Open Bidding" produces unqualified contractors; particularly in Government work.

There should be more concern about giving a good "Quality Product" than concern and effort trying to "Guard against lawsuits". Previous philosophy: when an error occurs, work together as a team to correct the problem, not to determine the blame.

Architects are not given a reasonable amount of time to do a good job.

Architects are not given sufficient payment for expected responsibility.

Professionals are TIRED, FRUSTRATED, SCARED and CONFUSED.

When money runs short - design must change and corners must be cut.

Pressure - owners are demanding MAXIMUM GUARANTEED PRICE from preliminary design drawings.

Our task is to educate the OWNERS, because they create most job pressures...deadlines, dollars, etc.

When drawings are sealed/stamped without disclaimers, you have accepted full responsibility.

A licensed professional puts his license on-the-line; he must exercise his authority and responsibility!

Comments courtesy of Byron Graves, Secretary, Memphis Chapter, CSI

CSI Certificate Exam

The second CSI Certificate Program examination is scheduled for April 14, with applications due by Jan. 15. The CSI Certificate program is primarily for those who read and interpret construction documents. It tests knowledge of current practices in writing and organizing construction project manuals, and in the use and content of general conditions in a construction contract.

To participate one must have at least five years experience in the construction industry. In addition, a thorough understanding of the CSI Manual of Practice, the AIA A201 General Conditions, and the EJDCDC 1910-8 Standard General Conditions is required.

Apply before January 1 to Manager of Education Programs, CSI, 601 Madison St., Alexandria, VA 22314, or contact Ken Searl at 503/223-1181. Accepted applicants will receive a free study guide. Membership in CSI is not required.



Mr. & Mrs. Tom Shea

LITIGATION #27

Shop drawing review needed to assure design is followed

by Jack D. Elmquist, attorney, Minneapolis. (A column on construction problems that often lead to litigation. Elmquist's law practice has specialized in the construction industry.)

Shop drawings are like the color yellow. You know what it is when you see it, but trying to describe the color to someone who has never seen it is another matter. Generally, shop drawings are drawings (or schedules) prepared by or for the contractor to illustrate some portion of the work. Over the years, a process has evolved on construction projects that requires the submission of shop drawings by the contractor for review and approval by the design professional.

Recent litigation (the Hyatt Regency collapse is one example) has impressed upon all design professionals the legal exposure of the shop drawing submission process. Some would like to eliminate the process altogether.

It is helpful to remember, however, how important the shop drawing process is to the typical building owner. During construction of a project of any complexity, the owner needs some control over the quality of the contractor's work. The contractor is interested in getting the job done and may not have the ability or expertise to ensure that the work is being done in compliance with the requirements of the contract documents.

It is essential that the design professional monitor the contractor's work as the contractor interprets the design. The design professional must ensure that the integrity of his design has not been compromised and there is no better time to do this than in the shop drawing submission process. When there is adequate time for review and review is accomplished with care, the chance of litigation arising from shop drawings is greatly diminished.

**From Minnesota
Chapter Newsletter
Specifics 9/86**

Director's Fall Report

Actions taken at the board meeting on Sept. 20 and 21, 1986 are as follows.

The Executive Committee approved a second meeting of the Certification Committee for FY 1987.

Regulations for Annual Meetings were approved.

The Board approved a proposed bylaws amendment of Article XII, Section 2 regarding qualifications for Fellowship.

The Board approved restructuring of the Long Range Planning Committee. A recommendation to "implement an objective based, systematic, and ongoing liaison program..." was approved.

The Executive Committee authorized an additional meeting of the Technical Documents Committee for FY 1987, as well as an additional meeting of the Education Committee for FY 1987.

The Board approved "Assignment of FY 1986 Excess of Income" of \$126,263 to the Underwriting Reserve Fund.

Report on Conference, Sept. 11-13, 1986.

The following actions were approved at the business meeting:

A new Region Long Range Planning Committee with Jesse T. Wilkins, Jr., FCSI as chairperson.
The revised "Appendix A" (Nominating Committee) to the Region Guide.
The Region substitution form as presented by the Portland Chapter: which will become a part of the Region Guide and available through the RTC. The Calendar of Events for Appendix C of the Region Guide. Art Nordling and Ken Searl will prepare a Region Newsletter. First issue Spring 1987.

The Region received a refund from the Tri Region of \$750.00.

Conference Reports: Cook Inlet - Anchorage, Sept. 10-12, 1987. Idaho - Sun Valley, Sept. 15-17, 1988.

The following VIP were in attendance:
Ray Rieger, FCSI, Institute VP
Roger Trapp, Institute staff
Joe Dworkin, Technical Committee
Rod Erickson, CCS, Education Committee.



The following Region Awards were presented:

Director Citations:
Linn West Art Nordling
Norm Rosenzweig Cliff Hitchins
Cook Inlet Chapter - CCS Program

Organization Certificate of Appreciation:
State of Alaska DOT/Technical Svcs.

Region Education Awards:
Jeff Jeffers & Donn Ketner - Cook Inlet

Region Technical Excellence:
Robert R. Klas, Portland

Newsletter Excellence:
The Predicator - Portland

Publication Commendations:
Willamette Valley - Chapter Roster
Spokane Chapter - Region Directory

Chapter Growth:
Idaho Chapter

Region Certificate of Appreciation:
James Robertson, CCS

Frank Stanton Memorial Award
Paul Edlund, FCSI, CCS

Conference attendance totalled 110. All extended their thanks to Willamette Valley Chapter for hosting a fantastic conference.
J. H. Greiner, Region Director

AISC National Conference Proceedings Are Available

The printed and bound *Proceedings of the 1986 National Engineering Conference*, from the conference sponsored by the American Institute of Steel Construction (AISC), held June 12-14, are now available. The price is \$25, including shipping. AISC also has a limited number of copies of the 1985 *Proceedings from the International Engineering Symposium on Structural Steel*; the two-volume set of 1985 and 1986 proceedings are \$50. Orders should be directed to AISC, Membership Services, 400 N. Michigan Ave., Chicago, IL 60611.

NORTHWEST REGION

1. Cook Inlet, Anchorage, Alaska
3rd Tuesday of month
6:30 pm, Anchorage Int'l. Inn
2. Idaho (Boise, Idaho)
1st Tuesday of month
6:30 pm, University Inn
3. Portland (Portland, Oregon)
2nd Tuesday of month
5:30 pm, Westin Benson Hotel
4. Puget Sound (Seattle, Wa.)
2nd Thursday of month
5:30 pm, The Canal Restaurant
5. Spokane (Spokane, Wa.)
2nd Thursday of month
6:30 pm, at various locations
6. Willamette Valley (Eugene, Oregon)
Last Thursday of the month
5:30 pm, Bev's Steak House



Retirement Noted

After spending the last 37 years involved with the Ceramic Tile Industry, Duane Hall has retired Sept. 1, 1986. Duane spent seventeen years with Pomona Tile Co., the last twenty representing Upco/Bostik products and Nobel Co. the last two years. He has been a member of the Puget Sound chapter for 20 years.

Duane and Rosalee will be celebrating their 40th wedding anniversary Oct. 5th on Kauai—their favorite getaway, returning to do all those things they have wanted to do.

PERHAPS YOU'VE FORGOTTEN

That if you add only one gallon of water to a cubic yard of properly designed 3000 psi concrete mix

- (1) You increase the slump about one inch
- (2) You cut the compressive strength by as much as 200 psi
- (3) You waste the effect of ¼ sack of cement
- (4) You increase the shrinkage potential 10%
- (5) You decrease the freeze-thaw resistance by 20%
- (6) You decrease the resistance to attack by de-icer salts.

(Reprinted from "Perhaps You've Forgotten" Bulletin No. 1, Concrete Improvement Board of Detroit)

Outline Specifications

The following article is taken from SPECIFICS (9/86) newsletter of the San Francisco Chapter, CSI.
Author is John A. Raeber, AIA, CCS

During the last year, I've had an opportunity to review a variety of outline specifications from various parts of the country. Considering that there is no standard format for outlines, it fascinated me that they are all very similar. It's interesting to note that there seems to be little information available to guide us concerning the amount and type of information to include in project specifications for the early phases.

The CSI Manual of Practice, 1985 edition, does provide two paragraphs on preliminary or outline specs. The MOP defines them as "a brief listing of materials, finishes, and methods to be used for the project," and notes, "in addition to names, brief explanations of requirements and criteria may be included." I have not found any further information on preliminary or outline specifications in the MOP.

The AIA Architect's Handbook of Professional Practice notes three basic phases of specifications: the "General Description" at the end of the schematic phase, the "Preliminary Draft of the Project Manual" at the end of design development, and the "Project Manual" for the completed construction documents phase.

Based on the AIA Handbook, Chapter 14, the schematics phase should have a description of the basic project elements written in simple paragraph

format, first giving pertinent project information of size and scope, listing the foundation and structural systems, noting the exterior cladding and basic interior concepts, finishes, specialties, equipment, and kinds of mechanical and electrical systems anticipated. The entire specification might be three to ten pages long.

Based on both the CSI MOP and the AIA Handbook, an outline or preliminary specification would be prepared at the end of the design development phase, organized in the CSI 16 Division format, and numbered and titled using the Masterformat five digit section numbers and titles which would reflect the sections anticipated in the final Project Manual. Each section would describe the basic materials and any special requirements that could affect the cost, such as mock-ups and testing. In addition, it could list the material locations since the drawings seldom are complete enough to establish the extent of many materials.

Projects requiring a guaranteed maximum price can move everything up one level. The outline specs may be required for preliminary costing at the end of schematics, with a full specification (often including a more detailed description of the location of materials) being required at the end of design development. By the time the working drawings are completed, the technical specifications usually have gone through one or more revisions to establish the final project price.

At this moment I know of no nationally available outline format guide specifications. San Francisco Chapter member Herman Hoyer, FCSI, has developed "Short-Form Specifications" and "Drawing Notes" abbreviated guides, either of which can be used as a basis for an outline specification. Herman has been trying for years to get the national organization to establish a short form specification format.

If any reader knows of additional outline formats that are generally available, feel free to drop me a line at 519 Teresita Blvd., San Francisco, CA 94127.

NOTICE

The architectural firm of Lundgren/Larson/Assoc. is rewriting their master specification and seeking input from members of the construction industry. If you can take time to stop in and review a section or two for them, please call Bernie Doran at 221-0891.

Also, the product information library at Lundgren/Larson's office is shared by five architectural firms. The catalogs are going to be reviewed and current ones placed on a computer filing system. Reps interested in up-dating their catalogs should also contact Bernie at the above listed number.

Please use this form for further information about CSI and what we can do for you.

Send membership information to _____

I would like to join the Portland Chapter CSI _____

I would like to be on _____ committee.

My name _____

Phone _____

Address _____

Clip this form and mail it to John Brockamp, Membership Chairman at the CSI offices, 1125 S.E. Madison, Portland, OR or call John at 655-9151.

SCHEDULE—PORTLAND CHAPTER CSI

Board of Directors—1st Tues. each month
Dinner Meeting—2nd Tues. each month

The Portland Chapter CSI newsletter The Predicator is mailed at no charge to CSI members once a month. Additional copies are mailed to selected firms and organizations. Circulation is 900 copies.

Deadline for newsletter contributions—3rd Mon. each month.

The Predicator is mailed the last day of each month.

Advertising Policy:

1 full page insert	
CSI member	\$125.00
Non-CSI member	\$150.00
2 full page insert	
CSI member	\$175.00
Non-CSI member	\$200.00

The Predicator is published 11 times a year.

PORTLAND CHAPTER LEADERS, 1986-1987

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President-elect, Curtis Finch	222-1661
Secretary, John Barker	231-9118
Treasurer, Dennis Obert	245-7802
1985-1986 President, Margie Largent	636-6977

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Robert Klas	644-4222
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Membership Committee John Brockamp, Chairman

We have 265 active members in the Portland Chapter of CSI! Today would be a great time to be a friend...invite an associate to join CSI and attend the very important meeting in November dealing with specification enforcement.

We have the opportunity to be among the first to know of the latest developments in our own discipline and in the industry. Take the first step, ask your friend to join CSI today!

Member News

Bob Thompson of Pella Windows is going back to school...working towards his Master's degree in mathematics.

Karen Akesson announced a job change. She is now with Merit Wall Systems, authorized Dryvit distributor.

Welcome New Members

Bob Alton, Western Allied Building Materials Distributors.
Guy Boston, Dallas Ceramic Co.
Frank Spears, P.T.L. Inspectorate, Inc.
Boyd Wetter, Ceiling & Interior Systems Supply.

FORUM FOR MEMBERS

The CSI Board of Directors has authorized addition of a "Membership Forum" to the *CSI Newsdigest* through which members may express divergent views on Institute policy and programs. Each Forum must be on a timely subject and must present pro and con sides of an issue. Submittals, not to exceed 400 words, are subject to review for accuracy by the president of the institute. □

Institute and Portland Chapter Dues for the year are as follows: Institute \$110.00 Portland Chapter \$20.00. Total investment is \$130.00. Please send your check for \$130.00 payable to the Construction Specifications Institute to John Brockamp, at the CSI offices, 1125 SE Madison, Suite 200, Portland, Or. 97214.

The Predicator

Editor, Inga Vrla
1125 S.E. Madison, #200
Portland, OR 97214

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! RSVP: DINNER MEETING — 238-1462 !



THE PREDICATOR

Advancement of
Construction Technology

Construction Specifications Institute Portland Chapter
1125 SE Madison, Rm 200 Portland, OR 97214 238-1462

Vol. 26 No. 5

December, 1986



Dennet Latham

PRESIDENT'S COLUMN

In response to October's column regarding shop drawing review, Bob Reslock (an engineer from the Portland Bureau of Buildings) attended last month's roundtable discussion and presented the following City policy for plan review of bidder designed parts of buildings.

Bob stressed that the City would be interested in working with a committee of architects and engineers with the purpose of refining the following procedure, if necessary. This interaction is a good idea as it will give the design professionals an opportunity to provide input into the City's policy and procedures.

In addition, it would be interesting to find out if other municipalities have similar procedures for dealing with bidder-designed building parts. More on this subject in coming months.

from PORTLAND BUREAU OF BUILDINGS.

"BIDDER-DESIGNED parts of the structure are those parts which will be subject to lateral and/or vertical loads and are not designed and detailed by the project engineer or architect. These parts, which commonly include steel stairs and handrails, curtain walls (including glazing), wood and steel joists and joist girders, pre-cast panels, and glass skylights, but may also include other parts of the work, have often been designed by the supplier who has the winning bid for that part of the structure.

continued on page 5

TIMBERLINE 50th ANNIVERSARY CELEBRATION IS TOPIC OF DISCUSSION AT CSI DECEMBER 9 DINNER MEETING

Where: Westin Benson Hotel

Time: December 9, 1986
5:00-6:30 Roundtable and
social hour
6:30 Dinner
7:30-9:00 Program

Cost: \$15.00 a person. No host
bar

RSVP: CSI offices, 238-1462 by noon
on Monday prior to meeting.

Friends, spouses and guests are
always welcome! Parking is available
at the bank parking garage and
tickets are validated at the door.

Linny Adamson, curator of the new
Timberline Lodge Museum, will show a
20 minute film titled, "The Builders
of Timberline" and a short talk to
include some information about the
"Friends of Timberline" group and
their efforts to preserve and restore
the lodge.

Marge Wintermute, local architect,
will then speak about her work at the
lodge, the museum design, some of the
restoration efforts, and some of the
unique problems in work of this kind.

Marge Wintermute, FAIA, has been a
member of the Portland Chapter, AIA
since 1941, establishing its Environ-
mental Education Committee in 1969.
In 1975 she was named chair of the
National Institute's Environmental
Education Committee. Marge is
currently working with the Portland
Public Schools as an Architect-in-
Residence.

Linny Adamson has spent the last 10
years at Timberline doing restoration
of textiles as well as woodworking.
She is employed by Friends of Timber-
line and also the Forest Service.

Come and join us for conversations
about the Timberline 50th Anniversary

Hot spiced wine will be served.

HAPPY HOLIDAYS! HAPPY HOLIDAYS!

BOARD OF DIRECTORS NOV. 4, 1986

Present: Latham, Stricklin, Daniels, Largent, Finch, Obert
Absent: Barker, Brockamp, Townsend, Josi, Shea.

Minutes of Oct. Board Meeting read by Latham in absence of secretary - approved.

Treasurer Obert presented Nov. financial report. Board directed treasurer to bill "no shows" of Oct. dinner meeting since Benson does not allow a reduction for less than the reserved number of dinners. No show billing has been Board policy for several years. The timely payment of bills was discussed and how to assist Treasurer in this matter. One suggestion was to open a separate "small" account for Products Fair Chairman. Motion by Curt Finch "to establish a separate account for the Products Fair Chairman for the purpose of paying bills during the planning of the Products Fair" seconded/discussion. Motion amended by Finch to add "initial deposit of \$2000.00 and maximum check size not to exceed \$500.00 with 2 signers of checks - the Chapter Treasurer and Products Fair Chairman". Amendment seconded by Obert and approved. Joli Stricklin moved to table the motion until next meeting. Seconded by Largent and passed. Insurance discussed - as pertaining to the motion and to CSI insurance policy billing generally. Obert will have answers at next meeting. "Bond" as required by by-laws discussed. Since Obert was appointed and approved by Board to fill the Treasurer position vacated by Mary Boyd (see T.P. Sept. p2) no action had been taken on Bond.

Awards: Stricklin - no report. Latham to get the '86 awards (see T.P. Aug. p.1) to Stricklin, to contact winners about their presentation, (people who were not at the awards program and did not receive their awards.)

Nomination: Largent report contact made with all retiring Board members and many current committee chairmen re their interest in running for elective position on '88 Board. The first meeting of the Nominating Committee will follow the December Board meeting. Open to all.

Education: James Peterson discussed planned seminars, during March and at the Products Fair. Subjects to be Construction Economics, CSI publications and Construction publications generally. Liaison Construction Library under study. Round table discussions preceeding programs. Discussion of Benson room scheduling. Oct. space not acceptable. Latham and the Benson have agreed on Mayfair Room for November and Crystal Room for December. We are looking at other facilities.

Programs: Curt Finch reported that all programs are falling into place. December: Timberline Lodge "As Art, Architecture, and History" with Marjorie Wintermute, FAIA as presenter. May will tie in with Products Fair and the Ed. Com. seminars. The proposed speaker for after dinner and a.m. seminar is Welde Cox. Joe Woods and Jody Proppe are working out the details. Board approved.

Liaison: Pete Daniels reporting from minutes of the last liaison meeting.

Library: Largent reported a draft "commitment" or letter of intent as to manner and extent of CSI support will be presented to Library Committee next meeting (Nov. 10 at AIA office - open to all). Largent said Candace Robertson, CSI Library Chairman, would call Latham with the "draft" prior to submission.

Products Fair: Joe Woods reporting everything on schedule. All outgo - no income yet, but that's normal. Big item was the seminar/dinner speaker. Much discussion.

The Predicator: Vrla reported newsletter in mail Oct. 31. Advertising inserts are slow but steady. We are over budget about \$50/month.

Old business: Board members, try to be more prompt and call if you can't be present.

Meeting adjourned at 1:30. Submitted by Margie Largent, acting Secretary

The following comments were presented by John Brockamp at the Nov. 11 dinner meeting panel discussion.

IMPROVED PROJECT PERFORMANCE

The Construction Specifications Institute has provided a necessary forum in which to address a critical issue--specification enforcement. What I will be addressing in this brief position paper is one contractor's research, analysis, and perspective on this important issue. A good place to start is with a broader definition of the issue and what it means to the general contractor and to the other participants in the industry, including owner, architects, and suppliers.

The issue can be defined as whether or not unauthorized substitutions of building materials in building projects has created an immediate construction project "performance gap" before the work even starts. Let's pause for a moment and define what I mean. Performance gap is the margin between the requirements spelled out in the project specifications and the general contractor's ability to use supplier bids to perform according to those specifications. Performance is established by the bid date when supplier's bids are received by the contractor. If the suppliers' materials have not been approved within the specifications, or by addenda prior to the bidding, an immediate performance gap exists.

Research and analysis provided by CSI members, including architects, contractors, subcontractors, and suppliers, indicates that the performance gap threatens the entire competitive bidding process. All participants in this process should be concerned with the development of accurate, well-defined, and enforced project specifications. Architects, particularly, should be concerned with fostering a clearer understanding of the project requirements among

continued on page 3



left to right

Neal Jacques, John Brockamp and his guest, Alan Zell

contractors, suppliers, and manufacturers. This can be achieved by following three simple rules:

- a Find out what the owner requires,
- b Determine what materials will satisfy the owner's requirements,
- c Write and enforce specifications to satisfy the owner's requirements.

It is not an exaggeration to say that the competitive bidding process depends for its continued solvency on accurate, well-defined, and enforced specifications that fulfill the owner and architect's performance requirements. The requirement to "compete" in the competitive bidding process depends on adherence to the specifications by all suppliers. This is the only way that accurate estimates can be developed and a reasonable return can be factored into the general contractor's bid. Few general contractors are without a performance gap horror story about supplier bids that include unapproved substitutions that are unacceptable to both the owner and the architect. In one instance, the attempted use of an unspecified granite veneer forced the architect to deny the use of the material, which caused significant financial loss for the contractor. When these unapproved substitutions are discovered after the bid date, they become the responsibility of and a liability for the general contractor.

Another problem for the general contractor is living up to the specifications if they call for unworkable solutions. I remember one instance where the project specifications called for a "composite system" that included hardware made for aluminum doors--a combination that did not work. In another case, a contractor friend told me about impossible code requirements for installation of an electrical panel in a paint-booth room, which would have required designing a new panel with a new UL classification!

Existence of the performance gap can be evidence that the architect has not provided accurate, well-defined specifications based on the owner's wants and needs or the architect is unwilling to enforce those specifications. The architect is responsible for developing a thorough understanding of the owner's requirements prior to writing the specifications. The architect interprets the owner's building material wants and needs. He is also responsible for enforcing the requirements for material substitution requests.

BS by KS

Basic Specn by Ken Searl

Several months ago Jerry Zambasso, CSI, factory rep for Schlage Lock Co., handed me his business card with the notation on the back entitled "Standardization of Hardware Specifications and Door Details within Architectural firms. How??" I gave it some thought at the time and set the card aside with the thought that his request was nearly impossible. Since then the card has been gathering dust in my CSI file of possible topics for this column. It still seems like a hard task but it would certainly improve our industry if standardization could be done and within the near future.

Recently I have been talking to a couple of door and hardware suppliers about putting door and hardware schedules on computers with the goal of having one form that the specifiers can work with that will also satisfy the suppliers so orders could be easily placed plus allowing the installer to use the form to install hardware at the project.

This is no doubt a large order but we will soon be working on it and in doing so perhaps we can also get more standardization of hardware specifications and door details within architectural firms. If we can come up with a workable document it is felt more architectural firms will be inclined to use this type of hardware and door specification and in turn we can get some degree of standardization within the industry.

The benefits of early detection and well-defined enforcement procedures are that unapproved material substitutions are caught as soon as possible following the bid date, saving a tremendous amount of wasted time, energy, and dollars. In other words, it is much easier to replace unapproved doors, windows, roofing material, etc. before it has been installed.

Existence of the performance gap also can be evidence that suppliers have not adequately studied or have ignored the specifications. Consequently, they have not gained prior approval for materials factored into their bid. This presents a problem for the general contractor who wants to provide the owner with a completed project built according to the architect's plans and specifications. Project managers in the contractor's office need suppliers who are bidding the specified materials. Suppliers who bid without approved materials put the project and all of the participants at risk. For example, a supplier might bid a project and qualify his bid with the general contractor as not approved but equal to the specified material, or orally "OK'd" by the architect. If, through error, the estimator uses this bid in his calculation and, as a

One area of concern I have had for for many years is the boiler plates that federal, state, city and other public bodies insist on using. In the first place, there appears to be no, and I repeat no, uniformity even within the same general group. Every agency seems to have their own style of boiler plate. It is noted at this time that the Oregon State Department of Higher Education has the most workable set of General Conditions and other boiler plate documents. It would be nice if the rest of the state could use the same or very similar documents.

In the federal sector every agency seems to also have their own version and just who has the best and worst I haven't decided.

One of my complaints with these boiler plates is many agencies hand them out copied so many times they are fuzzy, dim or too dark and difficult to read. One tries to prepare a neat appearing project manual then the supplied boiler plate looks like it came from another world. I wonder if neatness is a long lost art and in our modern world does any one really care or not. Well, I do and I know other people that feel the same way.

Now how does one go about getting changes and improvements in public works boiler plates? Can CSI local, regional or national do anything about this or is it just a fact of life and nothing can be done.

result, the general contractor submits the lowest bid and receives the contract, an immediate performance gap will exist.

The result of the performance gap and its negative impact on the competitive bidding process is that the general contractor bids a project in good faith, according to plans and specifications. When he discovers that he doesn't have back-up bids from approved suppliers, he is stuck with the cost of purchasing the approved product from an authorized supplier at a financial loss. The supplier who will submit a bid for an unapproved product stands to lose a sale, and his credibility in the industry is damaged. Therefore, the continued solvency of the competitive bidding process depends on following the three important rules cited in my thesis. Once again, these include:

- a Find out what the owner requires,
- b Determine what materials will satisfy the owner's requirements,
- c Write and enforce specifications to satisfy the owner's requirements.

by John Brockamp



Panelists - left to right
Wade Coykendall, Dan Huberty, Don Walton



John Brockamp, Mike Sestric, Dave Thomas, Bob Klas, Moderator

PANEL DISCUSSES SPEC ENFORCEMENT

The November Portland Chapter CSI program consisted of a panel discussing specification enforcement. Bob Klas, the Region TDC Chairman, was the moderator.

The format: each panelist is to give a short presentation on aspects of spec enforcement which bothered them. Finally the program would be opened to all participants and the audience for questions and answers. The qualifications of the panelists were discussed on handouts provided at each table.

Don Walton, manufacturer's representative, was first with a brief explanation of the history behind the panel. The concept that "being specified is the kiss of death", was discussed at the National CSI Convention in Los Angeles in June, 1986. A committee, which was formed then, gave a report at the NW Region Conference at Bend, Oregon in September. Art Nordling has agreed to discuss it with the National CSI Board. The situation is that manufacturers and products are selected without prior approval. Legitimate manufacturers provide details and request approval of their product while others do not but are the low bidder and so, get the contract. Don feels that architects should investigate products to be sure they will do what the manufacturer says they will. Architects need to enforce their specifications to prevent cost overruns and not increase their errors and omissions insurance because an unsatisfactory product was used. Don

prepared two questionnaires, which were distributed to industry and professional people in the audience for the purpose of obtaining feedback on the questions raised.

Dave Thomas, supplier and subcontractor was next with his feeling that the lack of enforcement of specifications is a reflection on the quality of specifications. For example, when a specification contains a reference to hollow metal doors in an all-wood building, the specification is assumed to have been thrown together. If the specifications are not enforced, the owner loses out. Specification enforcement does not cost money, "...it is okay to ask for substitutions and give approval if the product is satisfactory." Specifications need to say what they mean and mean what they say.

John Brockamp, general contractor provided a 4-1/2 page discussion entitled "Improved Project Performance" which is reproduced elsewhere in The Predicator.

Dan Huberty, Architect, defined the process his firm uses to select products and how it deals with substitution requests. If suppliers want their products selected, then they must provide the architect with projects on which the products have been used. Then determine the availability of the product, as well as the way it looks and how it fits into the architectural design. Next comes cost and evaluating the competition to get the best product for the least cost. Product data,

(including how current the sales rep keeps the literature) is also a factor, and finally availability and speed of repair. Does the manufacturer stand behind the product?

Huberty admitted that often products do not go through this selection process. A product is selected because the architect or owner is familiar with it. The substitution request form is useful because it allows evaluation of what may be an unfamiliar product. Once a product is selected then the type of specification is determined. The government does not want proprietary specs. The architect never knows what the bid covers until the shop drawings are received. With government work the low bid must be accepted and thus the architect may discover an unapproved product during construction.

Mike Sestric, project manager for the owner was next. He feels that taking the low bid does not necessarily mean taking low quality. The contract documents cannot be enforced if they are not clear. Do the specifications meet the design and facilities management objectives? The administrative procedures need to be clear. He felt that the "or equal" phrase should not be used, but rather specify half a dozen products which would be satisfactory.

Wade Coykendall, insurance underwriter was the final speaker. The liability coverage applies to specification enforcement only if the failure to provide the right product

continued on next page



"Mac" McBride and guest

Some of the crowd Tuesday night





Pictured are Andy and Barbara Olson and Al and Joyce Williams on board the MS Nieuw Amsterdam. CSI members Al and Andy and spouses are back from a western Caribbean cruise which took them to Grand Cayman, Jamaica and Cozumel, Mexico

causes the structure to fail. The architect is liable if he does not act in the best interest of the owner since the architect was hired as a professional representative for the owner.

The questions and answers between panelists and audience was lively. Walton, "...the architect should provide approval to the manufacturer of his product and allow people to bid on supplying that product only," and "...get general contractors to receive their sub-contractor's bids 24 hours before the bid opening." Walton also presented the idea of a bid depository. [Bid depositories were discussed at the 2nd annual Region Conference held in Portland at the old Congress Hotel, Sat., Oct. 16, 1965 (T.P. 11'65) ed]

Brockamp agreed heartily with Walton! Thomas mentioned that bids in Hawaii and Alaska are handled differently with pre-bid conferences and phased construction respectively. "If a product does not meet specs, then one needs to look at other alternatives. Approval of a substitute may come directly from the owner. Large manufacturers may produce their product under private label, which in many instances could be the same as the more familiar name. The architect needs to get data on the product to be sure it does what it is supposed to do. In large firms the architect who designs may not be the one who works with the contractor, thus design intent may not be carried out."

This program was video taped and is available for viewing. Please contact Don Walton at 643-9491.

92 people attended this meeting.

by Pesky Kilbourn

continued from page 1

Before a building permit for these parts can be issued and, therefore work allowed to proceed on these parts, the following shall occur:

A. The project architect shall submit a list of which items in the building or structure are bidder-designed. This list could be included in the project specifications perhaps under Section 01010 Summary of Work. The list could be missed in the specs so also noting on architects plans might be better.

B. Complete, legible documents (which will also be legible under microfilming) are to be submitted by the applicants' designated permit coordinator (definitely not by sub-contractors).

C. These documents will be examined by the Bureau of Buildings to verify codes compliance.

D. These documents must be approved by the Bureau of Buildings before a building permit will be issued.

The above mentioned documents shall include but not limited to the following:

A. Three (3) sets of design drawings, clearly and legibly showing all members and sizes, dimensions, connections, materials used, and indicating how the part is attached to the main structure.

These drawings are required to be prepared, designed, and stamped by an engineer or architect licensed by the State of Oregon to practice as such.

These drawings are also to both bear the approval of the project engineer and architect, that is, the engineer and architect who designed the main structure.

Drawings are only acceptable if they include all members and sizes, dimensions, connections, materials used, indicate how the part is attached to the main structure and have the above certification and approval stamps.

EXCEPTION RE: Steel Joists:

If the project engineer has shown the joist layout, the design loading and complete Steel Joist Institute (SJI) designation on his drawings, the joist suppliers' drawings need not have an engineer's certification stamp but only the project engineer's shop drawing approval stamp. The supplier's calculations, however, must always have both engineer's certification and review stamps along with the sizes, etc. of the individual truss parts.

B. One (1) set of calculations including substantiating computations and such additional data sufficient to show the correctness of the plans and compliance with the structural provisions of the State of Oregon Structural Specialty Code.

It should be stressed that the project engineer and architect have the authority and the responsibility to establish the design criteria for all aspects of the structure, including bidder-designed items.

These calculations shall be prepared and stamped by the engineer who prepared and stamped the drawings.

The project engineer shall also review the calculations indicating review of design concepts, loading criteria, and compatibility of designs.

continued on page 6

CSI EXAM SET

The second Construction Specifications Institute CCS and Certificate examination is scheduled for April 4, 1987.

In order for you to be included you must have your application in to Institute Headquarters by Jan. 15, 1987!

Please contact Ken Searl, CCS, WEGROUP, Architects, 122 S. W. Third Ave., #100, Portland, Or. 97204 or call (503)223-1181 for more information and/or application blanks.



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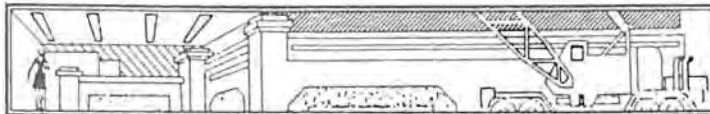
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continued on page 6

If the documents noted above (drawings and calcs) are not completed prior to the issuance of the building permit, they may be submitted prior to fabrication. In this case, the contractor for the project shall submit a list (prior to permit issuance) of the sub-contractors for each bidder-designed part and the registered engineer's name and phone number responsible for the part design. (This means the contractor must select the bidder design subs prior to permit issuance which is sooner than they are used to.)

Due to the increasing number of bidder-designed building parts on projects, the Bureau of Buildings requires that all of the above information be submitted before the plan review for a building permit is started. Timely submittal of this information will expedite the review process.

If you have questions about the above procedures, contact Bob Reslock at the Portland Bureau of Buildings, 796-7539.



CSI PRODUCTS FAIR '87 - "WORKING DRAWINGS"

The Portland Chapter's Product Fair announced that Mr. Weld Coxe will lead a morning seminar and will also speak at the dinner following the May 21 Product's Fair.

The morning seminar, titled, "Super Positioning" will be co-sponsored by the Portland Chapter of AIA, and will deal with the architectural firm from the point of view of making it succeed professionally, personally and technically.



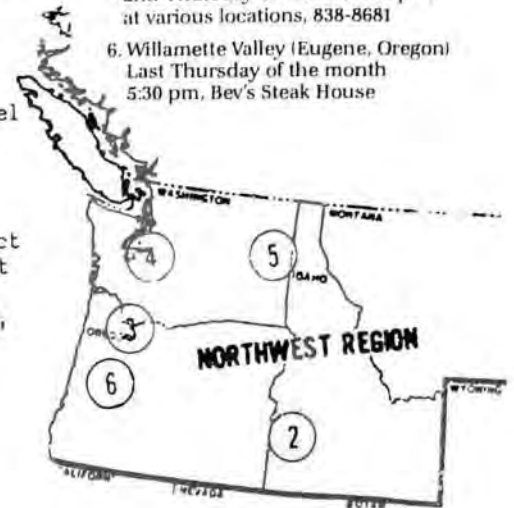
Willamette Valley Chapter Products Fair - 1987

The Eugene chapter will hold their 1987 Products Fair at the Eugene Conference Center/Eugene Hilton Hotel on April 30, 1987 from 11:00 am to 6:00 pm.

If you are interested in participating, we urge you to contact Wayne Brock at 686-0217 or Linn West at 746-8231 or write to: Products Fair 1987, 3356 Chaucer Way, Eugene, Oregon 97405 for applications and more information.

NORTHWEST REGION

1. Cook Inlet, Anchorage, Alaska
3rd Tuesday of month
6:30 pm, Anchorage Int'l Inn
2. Idaho (Boise, Idaho)
1st Tuesday of month
6:30 pm, University Inn
3. Portland (Portland, Oregon)
2nd Tuesday of month
5:30 pm, Westin Benson Hotel
4. Puget Sound (Seattle, Wa.)
2nd Thursday of month
5:30 pm, Meany Hotel Towers, 45th & Brooklyn in University District
5. Spokane (Spokane, Wa.)
2nd Thursday of month, 6:30 pm,
at various locations, 838-8681
6. Willamette Valley (Eugene, Oregon)
Last Thursday of the month
5:30 pm, Bev's Steak House



HOW TO IMPROVE SPECIFICATION WRITING TECHNIQUE

Paul Edlund was the instructor at the first seminar of the '86-87 season (Portland Chapter). The subject was How to Improve Specification Writing Techniques. 33 individuals attended, covering the full spectrum of fields of work; engineering, industry, landscape architecture, construction management, interior design, consultants, and architectural interns.

After a brief overview of the contract documents we spent the rest of the time discussing the CSI 3-part format, writing styles, writing habits to avoid, use of incorrect terms, and etc.

This seminar was well worth the time expended and I appreciated the knowledge gained.

by Inga Vrla



Attendees at recent Portland Chapter seminar on Specification Writing Techniques.

...AROUND OUR TOWN...

Usually you find itinerants and their bedrolls under the bridges of Portland. But there are some interesting goings-on in the shadow of the Ross Island Bridge...has been for some time now.

So, glance down at the waterfront the next time you cross the bridge, (westbound), you'll see an interesting array of 2-story, blue, red and brown roofed residences lined up, neatly in rows, waiting....

I spent a few moments with Dan Vaughan of the J. A. Jones Co., the contractor for this project, who explained that this was a "turnkey" contract for the government, with Spectrum Land Planning of Simi Valley, CA. being the designers. Atco Construction, Inc. was the sub-contractor in charge of building the units.

These homes are destined for the Adak, Alaska Naval Air Station. The total contract called for 505 residential townhouses, of which 18 were 4-bedroom (the rest 2-bedroom) and one commander's residence!

This \$70 million project is nearly complete as far as Portland is concerned. However, Aleutian Construc-



Pictured here are foundations (foreground) for housing destined for Alaska.

tors, their sub-contractor on Adak, is laying the groundwork for the placement of these homes.

This is a new venture for the J. A. Jones Co. and I asked why Portland was chosen as the site for this project, since the contractor is from Charlotte, N.C., the design team - from California. Also involved is a Canadian firm, as well as a company based in Seattle. But it did make sense, after all, we "are on the way" to Alaska. There were several points in our favor, an available labor pool being one of them.

At the height of the construction, 200 people were employed here. These homes are built on pre-cast concrete foundations, which, according to Dan are "over-engineered" because of the fact that they are handling and carrying the homes by these foundations.



Completed housing awaiting transport.

Five barge loads of homes have already left Portland, (one barge is 100' x 400' long and holds 30 2-bedroom homes). The trip of 3,500 miles takes approximately 17 days to reach the final destination. The remainder of these homes will be barged next spring (when the "window opens again").

The logistics of this endeavor could boggle one's mind, but appears to be worth the effort. I think these units are quite attractive and a far cry from the enlisted and officer personnel housing I've seen around this country.

Editor

YOUR BROCHURE INSERTED IN THE PREDICATOR REACHES OVER 900 PEOPLE!

Please use this form for further information about CSI and what we can do for you.

Send membership information to _____

I would like to join the Portland Chapter CSI _____

I would like to be on _____ committee.

My name _____

Phone _____

Address _____

Clip this form and mail it to John Brockamp, Membership Chairman at the CSI offices, 1125 S.E. Madison, Portland, OR or call John at 655-9151.

SCHEDULE—PORTLAND CHAPTER CSI

Board of Directors—1st Tues. each month
Dinner Meeting—2nd Tues. each month

The Portland Chapter CSI newsletter The Predicator is mailed at no charge to CSI members once a month. Additional copies are mailed to selected firms and organizations. Circulation is 900 copies.

Deadline for newsletter contributions—3rd Mon. each month.

The Predicator is mailed the last day of each month.

Advertising Policy:

1 full page insert	
CSI member	\$125.00
Non-CSI member	\$150.00
2 full page insert	
CSI member	\$175.00
Non-CSI member	\$200.00

The Predicator is published 11 times a year.

PORTLAND CHAPTER LEADERS, 1986-1987

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MEMBER NEWS

Don Walton has been appointed to sit on the architect selection board for the new convention center in Portland.

Corwin Hymes argued with a radial saw and lost the tips of two fingers. Grafts were taken from the palm of his hand. He recovered. Ah so.



Recent attendees at Nov. 11th dinner meeting from left to right, Paul Reeves, Seaton Griswold, Mona Rogers.

Institute and Portland Chapter Dues for the year are as follows: Institute \$110.00, Portland Chapter \$20.00. Total investment is \$130.00. Please send your check for \$130.00 payable to the Construction Specifications Institute to John Brockamp, at the CSI offices, 1125 SE Madison, Suite 200, Portland, Or 97214.

The Predicator

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THE PREDICATOR

Advancement of
Construction Technology

Construction Specifications Institute Portland Chapter
1125 SE Madison, Rm 200 Portland, OR 97214 238-1462

Vol. 27 No. 1

January 1987

Rose Coated Glass vs Oregon Liquid Sunshine

January Program

Where: Westin Benson Hotel

Date: Jan. 13, 1987
5:00 - 6:30 Roundtable and social hour. No host bar
6:30 - 9:00 Dinner and program

Cost: \$15.00 a person

RSVP: CSI Offices, 238-1462 by noon on Monday prior to meeting.

Friends, spouses and guests are always welcome! Parking is available at the bank parking garage and tickets are validated at the door.

JANUARY PROGRAM TO DISCUSS THE USES AND ABUSES OF COATED GLASS.

Our speakers for this program are from the Viracon Co. of Owatonna, MN and are presented through the courtesy and efforts of Portland Chapter member Tim Sullivan of Harmon Contract Glazing, Inc.

Mr. Brad Austin and Mr. David Stevenson will give a brief history of coated glass, types of coated glass currently available, and discuss performance data for solar and heat control products and a cost/benefit analysis for the use of solar control and heat control coated glass.

This is just a brief synopsis of what is being planned for this meeting. As always, please come and share your experiences and input for the benefit of all CSI members.



President's Column by Dennet Latham

January begins the annual discussion of "percent", that is, according to Webster's seventh new Collegiate Dictionary, "one part in a hundred". It seems our world has become mesmerized with this one part or even several parts of a hundred. This month business forecasts will present projections for percent of growth increase or decrease for 1987. Throughout the year there will be interest rate variations, material price increases or decreases, labor rate increases or decreases, schedule accelerations and decelerations, all measured in "percents". All these

changes will greatly affect decision making within the construction industry.

During a construction project, design professionals will be concerned with percent of construction document completion in relation to schedule and fee. Contractors will be concerned with percent of building completion in relation to contract sum and construction schedule. Manufacturers and suppliers will review percent of sales increase or decrease and price changes. Building owners will be concerned about percent of actual project costs over or under budgeted costs, and on and on ...

An article came across my desk recently from a manufacturer's representative with a "percent" that really caught my attention. Apparently, a worker had filed suit against a building designer, an equipment manufacturer, and a third party for a severe injury sustained while the employee was working on the piece of equipment in the building. The jury found that the building designer and the employee himself were each "7.5 percent negligent" in performing their duties!!!

I will be the first to admit that the quantitative information we

crank out every day is essential to managing our work, however, it was very enlightening to listen to Marge Wintermute and Linny Adamson describe the building and restoration of Timberline Lodge at the December Chapter meeting without one comment about "percent". The story is one of human effort by many people during very trying times to create a masterpiece of artwork and construction that survives today and will endure well into the future. It stands as a prime example of what is humanly possible if provided the opportunity. It seems, sometimes, that our preoccupation with other "percents" hampers the pursuit of the artistic and construction qualities exemplified in buildings like Timberline ... There is no better time than now to strengthen our efforts in working to increase the "percent" of projects like Timberline!

Chapter Dinner Meeting

Dec. 9, 1986

by P. Kilbourn

When people mention Timberline Lodge I always remember the CSI Region Conference hosted by Portland Chapter. Margie Largent was the chair and provided us with a great April Mt. Hood blizzard! It seemed somehow "right" to have a December Portland Chapter CSI meeting on Timberline. Especially since Timberline Lodge is going to be celebrating its 50th Anniversary next year.

The presentation on Timberline was by two people - Linny Adamson, curator of the new Timberline Lodge Museum and Marge Wintermute, FAIA, the architect for the museum. Dr. Francis Newton, retired director of the Portland Art Museum was also in the audience as well as some of the people who have worked on Timberline Lodge.

Adamson began with a general discussion of three things which can be and are being done with valuable historic buildings, Timberline Lodge in particular.

1. RESTORATION: Where the building is put back like the original. Adamson is having people make rugs, bedspreads, curtains, furniture and etc. reproducing the originals. Apparently, at the time of construction a piece of furniture was built and then plans and specs were drafted. These plans are being used to re-create the original pieces.

2. PRESERVATION: Preserve the original without alteration. The addition of the new Day Lodge leaves

the main Timberline Lodge with less traffic and thus preserves it from the wear and tear of daily use by skiers and hikers.

3. CONSERVATION: Prevent further damage and deterioration, thru new techniques if possible. The area around the compass in the floor of the first floor entrance was originally concrete and was constantly cracking. This was tiled to eliminate the constant repairs and prevent further damage to the area.

Timberline Lodge is also installing sound and fire proofing between rooms and double glazing on windows, as Al Staeli pointed out.

Adamson explained that she really has three bosses who are interested in Timberline Lodge. The U.S. Forest Service who owns the lodge; RLK Co., who leases the lodge from the Forest Service and operates it as a hotel; and Friends of Timberline, a non-profit organization formed in 1975 to restore and re-create Timberline's furnishings and decorations.

Timberline Lodge was built by the Works Progress Administration (WPA) during the Great Depression. It was dedicated in Sept. 1937 by Franklin D. Roosevelt on his trip to the Northwest to dedicate Bonneville Dam.

Adamson showed a film on the construction and dedication of Timberline Lodge. This film highlighted the many crafts and art forms that are found at Timberline Lodge, such as woodworking, stone and ironwork, paintings, stained glass, mosaic tile, weaving and sewing.



Curt Finch (l) and Steve Miller (r) with guest speakers Margie Wintermute and Linny Adamson



Arnie Schmutz, Pat Schmutz, Jerry Van Scoy (l-r)



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Linn Forrest, with the U. S. Forest Service was the architect on this project with Ward Gano, also with the Forest Service doing the engineering. The interior design was under the auspices of Marjorie Hoffman Smith. Ray Neuffer, woodworker and D. B. Dawson, ironworker, were two of many resident artisans named as well.

With the completion of the new Day Lodge, the first floor of Timberline Lodge has been turned into the "Rachael Griffin Historical Exhibition Center". Architect Marge Wintermute, FAIA, was in charge of the project and told us something about the effort involved. Yards of obsolete wiring and plumbing was repaired or removed. Many weeks of hard work eventually cleaned the years of accumulated creosote on walls and ceiling. Since the walls are stone, alternate methods of displaying artifacts was required. The concrete floor has been carpeted using "concrete grey" color to preserve the effect but enhance the comfort level.

The museum is named after Rachael Griffin, former curator of the Portland Art Museum (now the Oregon Art Institute). Griffin wrote a book on Timberline Lodge, founded the Friends of Timberline Lodge, and helped get the first grant for restoration of Timberline Lodge.

When you are at Timberline be sure to contact Linny Adamson. She will happily take you on a tour of her pet project!

71 members and guests attended this, our last meeting of 1986! Thank you Westin Benson for the complimentary hot spiced wine! SEE YOU NEXT YEAR!

BS by KS

Basic Specs by Ken Searl

Our Portland CSI Chapter began judging specifications for the CSI national awards on the first Monday of December and will also meet the 2nd and 3rd Mondays of December. We will conclude our judging in January 1987. Come join us, you will enjoy the experience.

I have mentioned before it is very interesting and educational judging specifications from other areas of the country. This year, in my opinion, the specifications are of much better quality than last year. There are still some entries that just don't cut the mustard. It is very difficult to figure out just what the specifier had in mind in some of the specifications submitted. Some are wordy and confusing. As an example one set of specifications had requirements in Division 1 for the type of gravel not allowed for asphaltic pavement. In the asphalt pavement section the gravel required was not covered properly. Several specifications request and encourage substitutions with the bid and provide space on bid form with add and deduct columns. One rascal had a four part format in one section. Inconsistencies were noted throughout Divisions 0 and 1. Another set of specifications had copied AIA General Conditions which should be a no-no both for specifications judging and the AIA. Believe me, there are a lot of interesting items to look at in many of the entries.

Recently I have been involved in quite a bit of discussion involving specifying and furnishing doors, frames and hardware. Some firms supply complete opening packages and claim many specifications make it difficult for a complete bid by these firms. They say the various components required for a complete package are in several specification sections and in many cases are not too clear. They want to know why installation of hardware in many specifications is listed in the carpentry section when in many cases the carpenters do not do the work. They claim, and justly so, that the installation of hardware should be in the finish hardware section. I agree with this and our specifications list installation of hardware in the finish hardware section.

Another item is painting of door frames and doors that are not specified as factory painted finish. Some firms feel that factory painting should be optional and if not the specifications should cover painting in the door and frame sections. This, they claim, will place the responsibility on the door and frame supplier and if the firm does not do the actual work they can sub it out but they are still responsible.

I believe this latter suggestion has merit. It seems to me, that with the door and frame supplier responsible for painting of these items this then puts the responsibility in a better

place than in the painting section. I know this method works on other items. For example, we specify the masonry contractor be responsible for the sealing of masonry work rather than the painter. It all began years ago when on one project I witnessed the placing of the sealer at the west side of a building and over 50% of the south side so I left because I felt they were doing a good job.

Guess what? When the rains came it only leaked on the portion where I did not witness the application. I said to myself "that does it" and from then on the sealing of the masonry went into the masonry section and we have had no more horror stories of improper sealing.

Several of us are meeting with local door suppliers and as soon as something develops we will keep you informed.

I want to thank Hans Meier for the kind words he had to say in his chapters' Newsletter about our last Regional Conference held in Bend, Oregon in September.

Nominating Committee by Margie Largent

The Nominating Committee met for the first time following the December Board meeting, 12/2/86. Attending were Denny Latham, President; Margie Largent, Past-president, (chairman); Tom Shea, Board of Directors (mentor); Betty Bellwood, past nominating committee chairman and Curt Finch, President-elect.

The chairman tentatively listed possible candidates contacted by her and having expressed interest or willingness to serve, as follows:

- 1/ The retiring board members who might be interested in elective positions of president-elect, treasurer, secretary. (Retiring board members are John Brockamp, Joli Stricklin, and Bruce Townsend.)
- 2/ Committee heads who would like to run for professional or industry positions on the board.
- 3/ Persons who were nominees for board or chapter offices in prior years.
- 4/ Persons who have resigned from previous boards due to particular circumstances (i.e., moving away).
- 5/ Others.

Please, dear reader, if you are willing and able to devote a year or two to the hard-working board, please contact Margie Largent, 636-6977. The Board of Directors and Executive Board positions are not honorary - they are working positions! Estimated minimum time required is ten hours a month.



Shown are some of the dedicated individuals spending their lunch hour evaluating specifications.

The (un-noticed) view is from the offices of Zimmer-Gunsul-Frasca, Architects.



Who would have thought "specs" could be this interesting?

Board of Directors

Dec. 2, 1986

Present: Latham, Barker, Stricklin, Brockamp, Largent, Finch, Obert, Townsend, Josi, Shea. Absent: Daniels. Committee Chairs and guests present: James Peterson, Ken Searl, Lee Kilbourn, Dick Ehmann, Betty Bellwood.

Meeting opened at 12:07pm.

Minutes were approved as printed in The Predicator. Treasurer's report was discussed and approved.

OLD BUSINESS

Chapter Organization Chart:

Latham distributed updated copies for discussion. Each director is to be responsible for two or three committees. Chairmen are still encouraged to attend board meetings, especially if they have a report but directors are to keep abreast of committee activities as assigned on the chart. The board approved the concept though it took no official action.

Products Fair Petty Cash Fund:

Last month's tabled motion was amended and approved as follows: A separate checking account with \$500 maximum will be set up this year for Products Fair petty expenses. The account will have two authorized signatures (the Fair chairman and Treasurer) though only one signature will be required for checks. The account may be replenished to the \$500 maximum as required.

January Chapter Program:

Consensus of the Board is to keep this program at the Benson even if our usual room will not be available. The proposed room is not of an optimum shape for group presentations. The program committee should give attention to refining the floor plan.

Registration Deadline

Jan. 15, 1987

The examination for CCS and the Certificate program will be given on April 4, 1987 in Portland, and now is not too early to begin preparing. Both exams are based on the 1985 CSI MOP and include Conditions of the Contract as well as the specification sections. The Certificate program exam lasts three hours, while the CCS exam takes five and one half hours.

Lee Kilbourn is the Portland Chapter chairman to contact for application forms (which must be at the Institute by Jan. 15, 1987) and other information. Call Lee at 224-3860.

Library: Latham read a draft of the commitment letter to the Multnomah County Library Assn. By consensus the Board approved the letter though suggested a statement of the actual financial value of the donated material (books, magazines, manuals, etc.) be included. The Institute will be contacted after the site is finalized - for possible assistance.

COMMITTEE REPORTS

Planning Ehmann submitted a draft of the new Chapter Operations Guide. A few sections are still pending. (Thank you Dick!)

Programs Everything is okay.

Membership Currently stands at 267.

Products Fair Woods reported that 153 requests for more information were received in response to the first mailing. Some 148 spaces were available. The actual exhibitor registration packet will be mailed en masse Dec. 6, 1986. Packets will also be available at the December Chapter meeting, as will the opportunity to immediately sign up and pay for booths.

Awards Stricklin reported the first committee meeting will be Dec. 5. The first deadline - for honorary memberships - is in February.

Certification Kilbourn reported that the chapter committee for the Institute Specifications Competition has started meeting weekly to evaluate submittals.

Education The first seminar (by Paul Edlund prior to the last meeting) was well attended, especially by intern architects. Many did not stay to dinner though they had paid. Net profit is about \$300. Peterson reported construction tours starting in January are being planned. After some discussion it was the consensus of the board to support education seminars at the Home Builder's Assn., Commercial Builder's Council show in March. Further, Joe Woods was designated as our chapter's official contact with the HBA/CBC event. He is to check with them and verify that we still may have a free booth. The chapter's official position was reiterated: The chapter supports the show but does not want to be considered a "co-sponsor".

NEW BUSINESS

Old "busi-body" Searl stressed the importance of greeting guests and newcomers at the chapter meetings. This is each member's responsibility, not just that of the hospitality committee. It was suggested that Membership Committee follow up later in the month with a greeting letter. Kilbourn requested names and addresses also be given to him for inclusion on the mailing list for The Predicator.

Meeting adjourned 1:15 pm

Respectfully submitted: John Barker, AIA/CSI, Secretary

Parking Garage Seminar

A "State of the Art" Parking Garage Seminar will be held on Jan. 8, 1987, at Portland State University. The seminar is sponsored by Morse Bros. Prestress, Inc., The Precast Concrete Institute, The Institutional and Municipal Parking Congress, and Portland State University.

It will feature nationally known speakers, Thomas J. D'Arcy of the Consulting Engineers Group, and David C. Monroe of the H. S. Peterson Co.

They will discuss the latest developments in precast parking structure design. Topics will include planning, structural systems, durability, design considerations, water-tight construction, design details, maintenance, and local considerations.

The cost will be \$30.00 and will include literature and lunch. For additional information contact Pat Hynes at 655-5111.

Upcoming Trade Shows

Roofing Contractors Assn. of Western Washington Annual Trade Show will be held January 29, 1987 at the Red Lion Inn/Sea-Tac, Seattle, Wa. Mini-workshops will be offered again this year. Dinner will be served at 7:30 pm with guest speaker Lynn Melby speaking on the promotion of small business. Contact Mary Jacobsen, Exec. Director 206/682-2457 for more information.

Design Professionals & Engineering Expo '87 sponsored by Consulting Engineers Council of Washington and Puget Sound Chapter of CSI will be held March 4-6, 1987 at Red Lion Inn at Sea-Tac, Seattle, Wa. Contact Patricia Strand, EXPO '87 Manager, CECOR, Inc. 206/623-6849 for more information.

Australian Specifications The State of the Art

by Charles Nelson

The following article appeared in the December 1986 edition of the Boston Parameter, newsletter of the Boston Chapter of CSI.

Mr. Charles Nelson, author of this article has been a member of the Boston Chapter of CSI since 1977. He now works in Melbourne, Australia and I believe his comments are of interest to our chapter as well. ed.

It must be a truism that any person who comes into a system from outside is likely to see first the weaknesses of the system, and later, as he begins to understand the system better, will begin to appreciate its strengths; or will at least begin to appreciate why the system came to be the way it is.

So it has been with this writer's orientation to the practice of specification writing in Australia. On first look, it seemed chaotic, disorganized. For example, it seemed incomprehensible that such a small group of professionals could have evolved, or worse, were continuing to permit the use of so many different versions of general conditions. That was before learning about the development of Australia's railway network, and about the second most popular national sport, lateral thinking.

Another observation made early was that any architect was pleased to discuss why some particular facet of the system was the way it was, but most were not interested in hearing about possible ways of improving the system. Having made this observation to an architect one day, the response was "and you're dead bloody right!"

In the author's view, after a year of exposure to it, the practice of specification writing in Australia is indeed disorganized; and the further view is that the profession of Architecture would be strengthened substantially if this aspect of its expression were more unified.

The reasons why "it is the way it is" seem to fall into two major categories:

1/ Architects, like the rest of their countrymen, tend to be fiercely independent, laterally thinking, more eager for individual expression than for finding a common identity, sometimes jealous of their technical know-how, and given to socializing but not to discussion of common

professional problems when they socialize. The fact of being a young country, with widely separated population centers, has promoted the finding of widely varying solutions to common problems.

2/ The fragmentation of the design professions: one frequently hears Australian architects bemoaning their "loss of control" over the total design process. Some blame the profession itself; others blame owners, builders, etc. This outsider's view is that neither conclusion is very close to the truth, rather that this "loss of control" is in part ordained by the professional profile outlined above, and is in part a logical outgrowth of the Australian professions' English precedents.

Rather than pursuing root causes for a perceived professional situation that may seem unfortunate, it would seem much more productive to look at realistic, achievable ways of increasing the profession's control over the building process.

In this regard, taking custody of the Project Manual probably offers the profession the most reward for the least effort. The "Project Manual" is the U.S. term for all written documents which form or precede the contract: the tender documents, the conditions of contract, and the technical specifications. The term "taking custody" is appropriate, because at present the Project Manual appears to be orphaned; lost somewhere in the skirmish between aunts and grandmothers, but lacking anyone stepping forward and asserting their parenthood. Thus, the Manual is divided up like pie, with everyone and no one being really responsible.

There are enormous advantages in having one unified legal document which incorporates all of the written material which is necessary to effect the construction of a project. The subject of a subsequent article will be a detailed look at the ways in which the diverse parts of the documentation are presently created in Australia, and how this system affects the whole construction process and its professionals.

There is another and far more significant reason, than simply regaining some perceived "loss of control" to compel the Australian architectural profession to rethink its entire approach to the written documentation. We are at a crossroad. The legal climate is changing, has been changing over the past 50 years. The picture will not and cannot remain static. Either the architectural profession will take a decisive, positive step toward assuming primary responsibility for the legal contract documentation, or it will surely lose what last control it now has.

A key element of this change is, however, that the profession is unlikely to lose responsibility along with control. What it will lose, along with control, is probably the most important marketing tool it could ever have: AUTHORITY.

Let us step back a bit in time to find an old, but still true theme: "The importance of an accurate specification or description of the materials and work to be used and performed in the execution of the building, is almost as great as the preparation of the designs for it. The frequent cost of the works above the estimated sum, and its freedom from extra changes on winding up the accounts, will mainly depend on the clearness, fullness, and accuracy of the specifications." So wrote Joseph Gwilt, 118 years ago, in his classic "The Encyclopedia of Architecture". (1) In those days an architect had to worry about satisfying his client, and was fairly well insulated from both the contractor and the public under the English Common Law principle of privity of contract. Over the last fifty years, that implicit protection has been gradually eroded until today the architect is fully exposed to liability for third party claims.

The importance of the specifications has thus increased since Gwilt's days: "Being written descriptions, (specifications) are more readily understood than drawings by persons not regularly associated with the construction industry. Hence, the courts and others often look to the specifications in particular to determine the message conveyed by the contract documents to those who must work with them." (2)

For a variety of reasons the architectural profession in Australia has not suffered the loss of its protective covering before the Bench to anywhere near the degree that has taken place for its American cousins. However, Australian courts are beginning to refer to and cite U.S. examples in reaching their decisions. Notwithstanding the much greater fragmentation of the design professions in Australia than in the U.S., it must be regarded as highly likely that the Australian architectural profession will find itself wearing a far wider public responsibility for its work than it has in the past.

Will the practice of specification writing in Australia be the protective shield of the profession, or the double-edged sword upon which are impaled its' wriggling former masters?

It is a dichotomy that only by assuming responsibility for the written documentation can the profession hope to be protected by it.

Continued on Page 6

This is something of an oversimplification, but it is still true that by comparison with their fellow architects in the U.S., Australian architects have handed over responsibility for cost control to the quantity surveyors and time control to the project managers. The only other "control" of importance is quality control, which is generally but not exclusively maintained through shop drawing procedures. It is interesting in reviewing various contract documents to see how confusedly by this matter is typically presented. To see architects struggling to maintain control over this tiny aspect of total project performance is something of a sad commentary on the present authority of the profession.

It should be made clear that it was not necessarily any great act of heroism that has maintained the U.S. architect in a greater position of responsibility: the laws simply gave no choice. In most U.S. jurisdictions, the architect is by law personally responsible for the finished works. The only question is just how far this responsibility extends. This responsibility may not be evaded except by the owner adequately indemnifying the architect against all third-party claims (something owners are reluctant to do, but which sometimes is in their best financial interest to do).

The inference to be drawn here is that, while, the Australian laws have not obliged the Australian architects to the extent that American laws have obliged their architects, and while the principle of privity of contract has tended to protect the Australian architect longer, in the long run this may have actually disadvantaged the Australian architectural profession. These conditions have promoted laxity and inattention to the changing requirements of the Project Manual.

It may well be of course, that this line of thinking is peculiar to one outsider who is accustomed to a bit more consensus and order in his particular specialization. Without in any way meaning it as a value judgement, the current specification practice in Australia is quite reminiscent of that in the U.S. in the 1960's, when the Construction Specifications Institute was only beginning to make some headway in standardization. Specification practice was every bit as fragmented and disorganized as it appears in Australia today. The writer's memory of first hearing about the CSI and its new "16-part" system, was "well, that's nice, but it really doesn't have anything to do with me". It follows that the missionary of a new order should be treated as scepti-

cally as the pre-convert first perceived that order.

On the other hand, if these observations strike any responsive chords in readers, then perhaps the outsider's view of specification writing in Australia is worth developing further: worth approaching in some detail. As an example of detail, one simple example may merit note:

If the profession's standard documents are to make an impact upon the industry as a whole, they must be used universally. How can this be done? Consider: the standard contract between owner and contractor published by the AIA is 23 pages long (including conditions of contract) and sells for \$2.00 - roughly the cost of duplicating. It is used in the original almost universally in the U.S. The RAIA version cost \$25.00. This writer's impression is that its use is sporadic at best. This pricing structure is a strong disincentive to standardization. The same criticism, it should be noted, also applied to the Standards Assn. of Australia, whose pricing policy of keeping their documents at 5 to 10 times the cost of duplication is in fact actively discouraging the widespread dissemination of the Standards as well as encouraging the violation of copyright.

It would not be fair to close this brief look at the State of the Art of Specifying in Australia without mention of the Australian Building Specification. It is an outstanding attempt to rectify some of the problems inherent in specification practice in Australia. It is particularly noteworthy in its rationalization of the four principal forms of Conditions of Contract. It is an excellent reference for the specifier, but like any proprietary product cannot possibly fill the need for a methodology for developing excellent master specifications. That need can only be met by an industry-wide active, committed, long-term collaboration. It would be a mistake to stop that collaboration at the edges of the nation.

References: (1) Gwilt, Joseph, The Encyclopedia of Architecture, 1867 edition, republished 1982 by Bonanza Books, New York, NY. (2) Schinnerer, Victor O. & Co. Quality Control in the Preparation of Specifications: one of a series entitled "Guide Lines for Improving Practice: Architects and Engineers Professional Liability, 1971, published by CNA Insurance in cooperation with the AIA.

This article originally appeared in the Nov. 1985 issue of "Architect", an Australian publication.

AVAILABLE FOR THE FIRST TIME: Commentary to Chapter 24 of the UBC. The most informative point-by-point commentary available on the new Masonry Chapter of UBC. Contains 82 pages of detailed explanation, including diagrams, tables and charts. Written over a three year period by the Masonry Society's Technical Committee, which sponsored the 1985 revision of UBC Chapter 24.

- * Describes how the provisions of Chapter 24 are intended to be used.
- * Identifies reasons for the provisions and their origin.
- * Presents all sides of provisions reached through compromise.
- * Identifies areas of the code that need additional research and testing.

The Masonry Institute of Oregon is in the process of distributing single copies to the major offices, and a limited number are available from this office at a cost of \$10. You may contact Larry Gilbertson at 224-1940 for more information.

Viewpoint

by John Raeber, AIA/CSI

The following is one of a series of articles written by John A. Raeber, AIA/CSI and appears in the December 1986 issue of SPECIFICS, the newsletter of the San Francisco, CA. chapter of CSI.

How do we determine the extent of information that is right for a particular project? Last month I listed several factors; the type and complexity of the project; the way the project is bid (open bidding, invitational bidding, negotiated contract); the way the project will be administered in the field (by the specifier, the project architect, an associated architect, a separate construction manager); and to whom the specifications are written (the contractor, the estimator, the installer, or the lawyers).

The last factor, to whom the specifications are written, is not generally discussed in books on specifications writing. But as in giving a speech, the intended audience provides important guidance in what should be included in the specifications.

It's easy to spot a specification written for lawyers. Many of us are given excellent examples when clients present us with contract conditions and general requirements developed by their legal department; lawyers typically write for other lawyers. Further samples are seen when we find ourselves in the middle of litigation, and we are told to develop language that will prevent the problem from ever happening again.

Unfortunately, lawyers love to play with words, and frequently their words are written to be literally interpreted, or even twisted to assure a meaning beneficial to their client, regardless of the situation. This also means the language is frequently ambiguous, and leaves many contractors wondering how to bid the project. In any case, it seldom results in clear, concise language.

The textbooks are emphatic that specifications should be written to the contractor. But, there's a difference in writing to the contractor and writing for the contractor. Obviously, the specifications are usually a part of the contract between two parties, the owner and the contractor. And it is important to use imperative type sentence structure consistent with the concept that the contractor is performing the "Work," even though it's anticipated that some of the actual work will be done by subcontractors.

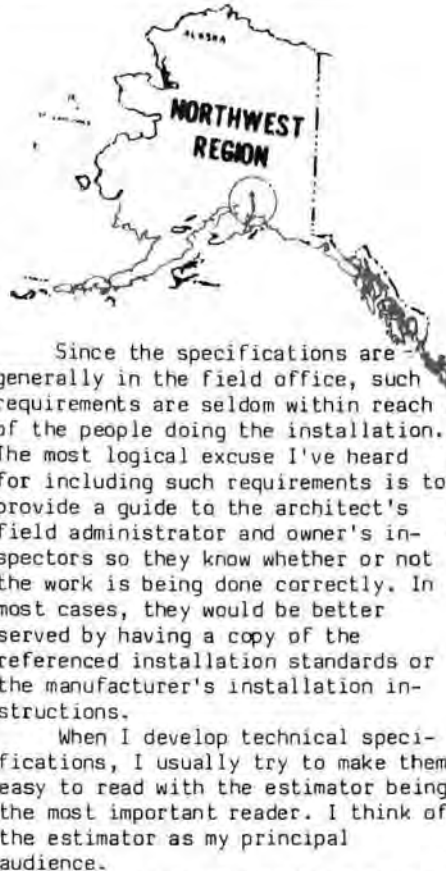
Writing for the contractor, as I define it, means attempting to assist the contractor's bidding and administration by "clarifying" responsibility and "packaging" the subcontracts. Technical sections are written noting that they include providing hoists, cranes and scaffolding. Technical sections note that the installers are responsible for cleaning up after their work, and technical sections are developed to allow "easy" separation into bid categories, such as including installation of hardware and accessories in Division 6, since the carpenters generally install them anyway. (See BS by KS this issue. ed)

Those of you versed in the CSI "Manual of Practice" recognize that some of these practices are contrary to recommended practices, but it is easy to get confused between writing to the contractor and writing for the contractor.

An extension of writing for the contractor is writing for the installer. The Navy NAVFAC Guide Specifications and Army Corps of Engineers Guide Specifications still frequently write what I consider to be installation manuals. The examples show specifications being used as installation manuals.

NAVFAC/Section 09411 - Terrazzo, Bonded to Concrete, "3.2.1 Placing: Thoroughly moisten, but do not saturate the underbed and slush with neat cement of the same type as that used for topping."

Corps/Section 09411 - Bonded Terrazzo, "15.1 Underbed: ... The underbed shall be placed on the subfloor and screeded to an elevation 1/2" below the finished floor. Divider strips shall be installed in the semi-plastic underbed."



Since the specifications are generally in the field office, such requirements are seldom within reach of the people doing the installation. The most logical excuse I've heard for including such requirements is to provide a guide to the architect's field administrator and owner's inspectors so they know whether or not the work is being done correctly. In most cases, they would be better served by having a copy of the referenced installation standards or the manufacturer's installation instructions.

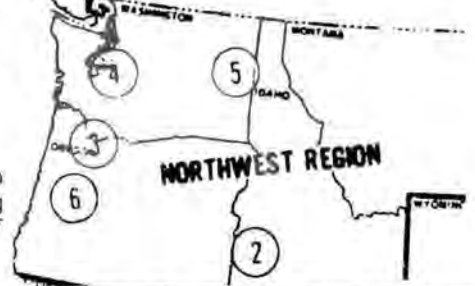
When I develop technical specifications, I usually try to make them easy to read with the estimator being the most important reader. I think of the estimator as my principal audience.

The estimators should be able to quickly find the desired information. They should be able to easily scan the specifications for special requirements that may add to or lower the cost, and they must feel confident that their bids accurately reflect the intent of the contract documents. The same thing can be said for anyone reading the specifications, but by writing to the estimator, it seems easier for me to keep my priorities in order.

If the specifications meet these requirements, accurate bids should be provided. And if the bids accurately reflect the intent of the contract documents, almost any field problem can be solved without the need to get lawyers involved. by John A. Raeber, AIA, CSI.

NORTHWEST REGION

1. Cook Inlet, Anchorage, Alaska
3rd Tuesday of month
6:30 pm, Anchorage Int'l. Inn
2. Idaho (Boise, Idaho)
1st Tuesday of month
6:30 pm, University Inn
3. Portland (Portland, Oregon)
2nd Tuesday of month
5:30 pm, Westin Benson Hotel
4. Puget Sound (Seattle, Wa.)
2nd Thursday of month
5:30 pm, Meany Hotel Towers, 45th & Brooklyn in University District
5. Spokane (Spokane, Wa.)
2nd Thursday of month, 6:30 pm, at various locations, 838-8681
6. Willamette Valley (Eugene, Oregon)
Last Thursday of the month
5:30 pm, Bev's Steak House



SCHEDULE—PORTLAND CHAPTER CSI

- Board of Directors—1st Tues. each month
- Dinner Meeting—2nd Tues. each month

The Portland Chapter CSI newsletter The Predicator is mailed at no charge to CSI members once a month. Additional copies are mailed to selected firms and organizations. Circulation is 900 copies. Deadline for newsletter contributions—3rd Mon. each month.

The Predicator is mailed the last day of each month.

Advertising Policy:

1 full page insert	
CSI member	\$125.00
Non-CSI member	\$150.00
2 full page insert	
CSI member	\$175.00
Non-CSI member	\$200.00

The Predicator is published 11 times a year.

STRUCTURAL AND MECHANICAL CODE INTERPRETATION WORKSHOP

The Columbia River Chapter of ICBO is presenting a structural and mechanical code interpretation workshop on Jan. 14 and 15, 1987.

Workshop will be held at Beaverton Elk's Lodge #1989 at 3500 S.W. 104th Ave., Beaverton, Oregon

Registration: 1-day \$25.00
2-days 45.00
Registration includes refreshments at breaks and lunch.

Bring your own copy of UBC and UMC. Also bring a copy of Building Standards, Nov.-Dec. issue if available. Registration is open to all interested persons and will discuss analysis of existing codes utilizing proposed changes that have been submitted for membership action at 1987 Annual Board Meeting, as well as other pertinent items.

Send registration to Ron Storzbach, Building Official, City of Oregon City, 320 Warner-Milne Road, Oregon City, Oregon 97045 or call Hal Roth, Beaverton Fire Dept., at 526-2466 for more information.

PORTLAND CHAPTER LEADERS, 1986-1987

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President-elect, Curtis Finch	222-1661
Secretary, John Barker	231-9118
Treasurer, Dennis Obert	245-7802
1985-1986 President, Margie Largent	636-6977

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for Portland Chapter Members

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Technical Documents Committee, Robert Klas	644-4222
CSI Appointee to Amer. Arbitration Assn. Regional Construction Advisory Committee, Wm. Merritt	223-8590
CCS/Certificate Chairman, Ken Searl	223-1181

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Membership Committee

John Brockamp, Chairman

ABOUT IMPROVED PERFORMANCE

When I prepared for the Portland Marathon, I ran faster workouts when I trained with experienced runners. I became aware of advanced performance standards thru a comfortable association with my peers.

I've learned to feel the same way about the Construction Specifications Institute. CSI membership brings me in contact with the most proficient professional and industry people in our area, and my performance improves as a result of the association.

Membership in CSI is for the advancement of construction technology. As we work at the tasks to improve our profession and industry we notice improvement in the performance of ourselves and our company.

Mail your check for \$130 today and start enjoying the rewards of improved performance. Both you and your clients will be glad you joined the Construction Specifications Institute to assist in the advancement of construction technology.

Welcome New Members

Robert C. Alton, Beaverton, Or.
Guy R. Boston, Portland, Or.
J. Frank Spears, Portland, Or.
Boyd E. Wetter, Portland, Or.
Debbie Bahr, Lake Oswego, Or.
Judie R. Clark, Portland, Or.
Theodore W. Litchfield, Salem, Or.
M. K. Myers, Portland, Or.
Robert E. Patterson, Portland, Or.
Norman Sievert, Portland, Or.

Portland Chapter membership now stands at 270 individuals!

The Education Committee of the Portland Chapter CSI is planning a tour of L. C. Pardue, Inc., a manufacturer of prefabricated masonry panels. Pardue is one of two manufacturers of this type in the Northwest. We will be able to see panels being manufactured for ALZA Pharmaceuticals' administration building in Palo Alto, CA.

The plant is located at 20915 S. W. 105th, in Tualatin, Or. 692-3355. Plan on being there at 1:p.m. on Feb. 5, 1987. If you need more information please call James Peterson at 224-3860. Directions to the plant. Take I-5 South to Nyberg Rd. exit, go west to Boones Ferry Road, take a left to Avery, go right on Avery to 105th, then left for 1/4 mile to the plant.

Institute and Portland Chapter Dues for the year are as follows: Institute \$110.00. Portland Chapter \$20.00. Total investment is \$130.00. Please send your check for \$130.00 payable to the Construction Specifications Institute to John Brockamp, at the CSI offices, 1125 SE Madison, Suite 200, Portland, Or. 97214.

The Predicator

Editor, Inga Vrla
1125 S.E. Madison, #200
Portland, OR 97214

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1125 SE Madison, Rm 200 Portland, OR 97214 238-1462

Vol. 26 No. 7

February, 1987

How To Do It Better In The Dirt



President's Column by Dennet Latham

February brings us to the half way mark of the fiscal year. I would like to take this opportunity to thank our hard working Board of Directors and committee members for their efforts and success of providing outstanding meetings, programs, newsletters, and events for the Portland Chapter. The Fundamentals of Specifications seminar in November was well attended along with the Specifications Enforcement program which followed. Membership has increased each month which is a sure sign of a healthy chapter. The last tally indicates 274 members. The Technical Documents Committee, Liaison Committee, and the specifications competition have kept many members busy during the past few months. The second half of the year is shaping up to be even more active!

Along with a plant tour of the L. C. Pardue, Inc. plant in early February, the Education Committee is planning a major seminar in March on construction economics. The Planning Committee is continuing work on the Chapter Operations Guide with a goal of completing the document by year end. The Membership Committee is preparing to publish the new membership directory which is updated every two years. The Technical Documents Committee is continuing to work on three SpecGuides and one Monograph. The

February Program

Subject: Earthwork Specifications and Procedures -- How To Do It Better In The Dirt

Speaker: David D. Driscoll, P.E.
Principal of Geotechnical Resources, Inc., Beaverton, Oregon

This will be a presentation on the procedures, methods, and specifications for successfully accomplishing earthwork in the Northwest, including a brief description of how dirt behaves and why; a comparison of various compaction standards; justification for the various standards designated; types of construction equipment; and how to best control earthwork. All of the above will be supported by "war" stories.

Don't miss this interesting presentation by an accomplished and entertaining speaker!

Where: Westin-Benson Hotel

Date: February 10, 1987
5:00 - 6:30 Roundtable and social hour. No host bar.
6:30 - 9:00 Dinner and Program

Cost: \$15.00 per person.
Friends, spouses and guests are always welcome!

RSVP: CSI Offices, 238-1462 by noon on Monday prior to the meeting.

CHANGE ORDER — ATTENTION — CHANGE ORDER

Please note this important change in parking procedure! Parking is still available in the parking garage...however, the cost will be \$1.00 with validation! (The city of Portland has purchased the garage and will charge \$3.00 an evening; the hotel will pay \$2.00 a car for banquet functions.)

Roundtable Discussion

ROUNDTABLE DISCUSSION will cover specification enforcement.

Liaison Committee is working on the proposed Construction Industry Library and a Construction Practices Manual with other industry associations. The Certification Committee will be monitoring the CCS and Certificate exams and, with Education Committee assistance, will conduct pre-exam study sessions for examinees.

Programs will cover topics such as earthwork specifications, computers, personal development. The Program Committee is planning an "exotic" fun night in June!

Of course, not to overlook, that on May 21, Joe Woods and his committee

are planning what appears to be the largest Products Fair to date! Again this year, the May chapter meeting will be held in conjunction with the Products Fair, with a special dinner speaker.

There is a full slate of activities for members and their guests this spring and I encourage everyone to participate. CSI is a valuable organization and is here for your benefit. If every member will bring one guest to one activity I believe the Portland Chapter can easily achieve the membership goal of 300 by year end. See you there!
Dennet Latham, President

Board of Directors, 1/6/87

Present: Latham, Barker, Stricklin, Brockamp, Obert, Townsend, Josi, Shea. Absent: Daniels, Largent, Finch (excused).

Meeting began at 12:12 pm. Minutes were read and approved.

Treasurer's Report Obert distributed copies of a current financial report. He is reorganizing the accounting system to more logically indicate line-item costs according to project. He will present this at the next meeting. Report approved.

Programs Latham reported for Finch that January meeting is ready to go. February will feature Dave Driscoll, Soils Engineer. March will be on computers. May is Products Fair.

Technical Documents Paul Wilson reports the committee is working on three spec guides as well as a monograph.

Certification After some discussion and confusion, it was decided that Latham needs to determine who is in charge of the chapter's study sessions to prepare for the certification exams - Kilbourn or Searl.

Education Josi reported that seminars are being planned plus a tour of a plant for masonry panels.

Long Range Planning No major progress since the draft was submitted last month. (Chapter Guide). Some sections need more input. The consensus is that all directors and chairpeople should review the draft. The process is to be expedited with a routing slip and a one week per person review limit.

Products Fair Townsend reported for Woods that 15 booths have been sold to date.

Membership Brockamp reported the chapter stands 270 strong. A phone campaign is coming up later in the month.

Old Business Products Fair checking account has yet to be set up.

New Business Gira is to order more stationery (with new logo) to bolster our depleted supply.

Meeting adjourned 1:15 pm.
Respectfully submitted: John Barker, Secretary

BS by KS

Basic Specs by Ken Searl

As you folks out there are no doubt very aware of, there are a lot of building codes involved in the preparation of drawings and project manuals. From time to time things appear in codes that raise questions. One example of this is when we design and specify for commercial projects, we cannot place a step directly on the exterior side of a doorway. In fact we are limited to not more than 1/2 inch difference in heights. What I would like to know is why is it OK code-wise to place a step directly on the exterior side of a doorway at a single residence and not at a commercial installation. It is noted that UBC section 3304 (h) makes an exception for Groups R, Division 3 and M occupancies. I disagree with this exception.

For those of you that specify concrete floor surface flatness it seems that our old traditional method of defining the floor surface at not more than 1/8" tolerance under a ten foot straight edge is now in the process of being reconsidered by the ACI, ASTM and Canadian Standard Association. They tell us that it is next to impossible to obtain the above requirement. I tend to agree with them in general but this tolerance can be met or nearly so by the use of a permanent screed rail placed within the concrete slab area and set to grade prior to pouring of concrete.

This form is made of cement and other materials, is steel reinforced and is shaped in the form of a railroad rail. It allows a concrete pour to meet or exceed the above tolerance. It remains in place and if the floor gets covering it will never be seen. If the floor doesn't get covered and one doesn't care about it being seen then there is no problem. This permanent screed can be obtained from concrete specialties suppliers.

There is a new system of flatness being proposed which is in use at this time. It is called the Face Flatness Number named after Edward W. Face Co. ACI Committees 117 (Tolerances) and 302 (Floors) are now in the recommendation stage for adoption by ACI and the Canadian counterpart. This method goes from 0 to 100 for determining flatness and levelness.

It was found that finished floors under the old specification were in fact reaching a rating of F45, about half as flat as previously presumed.

One thing I want to mention at this time is what determines flatness and levelness. Levelness is usually dependent on gravity whereas flatness is not. In specifying what is needed on a finished floor, both items must be taken into consideration.

Over the years we have specified 1/8" in 10' and I agree that normally we do not get this figure as specified. We do however, obtain this requirement when we also add to the specifications that a licensed surveyor will set up instruments and take accurate measurements. Usually some grinding and filling results from this and I might add this method is indigenous only to a floor that is to receive a suitable covering. I also want to state that on those floors where we specify the use of the permanent screed rail mentioned above we find the finished floor well within the specified requirements without any filling and grinding.

PS to BS by KS

For your information I have completed placing the Northwest Region Operations Guide on a computer disk and in the near future copies may be obtained by all interested parties through the Region Directors and your local chapter. My next order of business is getting out the first issue of the Northwest Region News. It is expected to be out before the next Council meeting. So there.

I have heard our chapter now has over 270 members. How about we all get going and bring this up to 300.

The 1987 National Fire Protection Assn. Technical Committee will meet in Portland, Or. on Nov. 9-11, 1987. If you would like a copy of the Technical Committee reports to be proposed for action at this meeting please send your name and address, along with \$5.00 requesting Document ICR-87F, to NFPA Headquarters, Batterymarch Park, Quincy, MA. 02269.

Recipients of the Technical Committee Reports may comment on the reports until May 1, 1987. Comments must be submitted during the comment period and will not be accepted at the Meeting when the Reports are acted upon. There are forms for commenting in the Reports.

Chapter Dinner Meeting

Jan. 13, 1987

by P. Kilbourn

Brad J. Austin, the VP and General Manager of Marcon Coatings, Inc. presented the Jan. chapter program with Portland Chapter member Tim Sullivan of Harmon Contract Glazing, Inc. Both firms are divisions of Apogee Enterprises, Inc.

Austin gave us the background on the types of coated glass available, including the processes used to make these products, what makes them beneficial to use, what to keep in mind when trying to determine what is the best product for an application, how the various glass products perform, what is new in glass products, and what alternatives design professionals have for coated glass.

There are two types of coated glass fabrication methods in use.

1. **PYROLITIC DEPOSITION** or "hard-coat" - a process which applies a metallic oxide coating (usually tin) to hot glass. The metallic oxide is literally impregnated in the soft molten surface of the glass while on the float line, thus becoming a part of the glass. Somewhat reduced product performance and limited color selection are the main drawbacks of pyrolytic coated glass, but it can be tempered or heat strengthened after coating.

2. **VACUUM** or **SPUTTERED DEPOSITION** or "soft-coat" - a process which involves a vacuum chamber large enough to hold the glass, an inert gas atmosphere and electrical energy which imparts a positive charge to the atoms of inert gas. When positively charged ions strike the negatively charged metal cathode, atoms of metal are dislodged and the metal atoms sputter upon the glass substrate creating a thin layer of metal on the glass. Vacuum deposition coated glass cannot be tempered or heat strengthened after coating but they are available in a wide range of colors, with better performance values.

In residential windows, clear glass is desirable because of solar heat gain. In commercial establishments, cooling costs are usually the problem and shading coefficient directly effects cooling costs.

Some definitions U-value (for thermal conductivity) expressed in BTU/hr/sq.ft. is the reciprocal of the R-value (for thermal resistance). The shading coefficient is directly related to cooling costs and the U-value is directly related to heating costs.

EMISSIVITY of glass is related to absorptance and absorption. Absorptance is the amount of light disappearing at a single reflection whereas absorption is the amount of light lost as it is transmitted through a material. A black box which absorbs all light will have an emissivity of 1.

Solar energy is divided into three wavelengths; ultraviolet, visible, and infrared. Infrared is the heat radiation i.e., which is absorbed to produce the sensation of warmth. Solar reflective coatings allow visible light of short wave length to penetrate the building and be absorbed by floors, walls and furniture where it is converted to long wave infrared energy and is radiated into the room as required. Low E coatings reflect most of the long-wave infrared radiation back outside in summer (cooling) and back into the room in winter (heating).

Austin concluded the presentation with suggestions for factors which need to be considered in determining which glazing to use, such as environmental conditions of the building site, area of the country, type, size and orientation of the building and finally building design.

A brief but lively question and answer period followed this informative meeting. 64 members and guests attended.

by Perky Kilbourn

Editorial Comment: I wonder if some of the attendees at this program would have liked equal time for their products? While the subject was presented and received quite well, I felt it was perhaps a bit more specific than is desired for CSI "generic" programs.

Page 89 of the Institute Chapter Administrative Guide states...
Recommended Requirements for Presentation of Programs:

1. Programs should be non-commercial, with no product promotion. The speaker should avoid using trade names. ed.



Dinner speaker, Brad Austin, with Tim Sullivan and Dennet Latham



Guest Gary Fasano with Corwin Hymes



Perky Kilbourn with Bill Merritt(l)

editor's note: You might be interested to know that Perky Kilbourn, B.S., M.S., Ph.D. received her Doctorate of Philosophy in Microbiology from Oregon State University, her Master of Science in Microbiology from the University of Oregon Medical School and her Bachelor of Science in General Science from the University of Oregon. Perky teaches Clinical Microbiology Lab at the National College of Naturopathic Medicine. She is the Laboratory Director of Consulting Clinical and Microbiological Laboratory, Inc., in Portland, Or.

Mechanical Fastening of Single-Ply Roof Membranes Into Steel Decks

Mechanically fastened roof systems appear to be the fastest-growing roofing application method. The membranes used for such systems must have certain traits to make them suitable for roof application: they must resist UV radiation and weather, they must resist wind forces, and they must be flexible because wind variations and interior overpressure (air-conditioning systems) produce pulsating dynamic loads on surface and structural components.

Because of these constantly changing forces, fastening systems assume critical importance. Rotating and rocking, along with corrosion and the strength of the fastening plate itself, affect pull-out values. The dynamic pull-out value of fasteners, not static values, must be used when designing mechanically fastened membrane systems.

For a discussion of cautions to heed when constructing a mechanically fastened roofing system, and for more detailed information regarding successful installation of same, request the paper entitled "Mechanical Fastening of Single-Ply Roof Membranes Into Steel Decks—An Engineering Evaluation" by Warsaw and Hoher. The paper may be obtained from The Roofing Industry Educational Institute, 7006 South Allon Way, #B, Englewood, CO 80112-2003. If you would like to order the book which contains all papers presented at the national symposium, contact the National Bureau of Standards (NBS), Gaithersburg, MD 20899; (301) 921-3516. Or contact the National Roofing Contractors of America (NRCA) at 8600 Bryn Mawr Ave., Chicago, IL 60631; (312) 693-0700.

Bent Glass Finds New Markets

Given: architectural bent glass creates buildings which function as enormous pieces of sculpture, adding aesthetic value to the city environment.

Yet bent glass is more than merely decorative. New applications show bent glass possesses these benefits: safety (when bent glass breaks, the risk of injury is minimized because glass adheres to the product's plastic interlayer), sound control (its interlayer dampens vibrations), security (certain applications can resist bullet penetration), and solar control (glare as well as ultraviolet rays can be screened out).

Skylights and atriums have been common markets for bent glass. Now, however, bent glass is being used for greenhouses occupied by people. (Wendy's and McDonald's exemplify commercial applications of this concept.) Too, interior design of offices, department stores, and other building interiors use bent glass.

Completing a construction project with bent glass requires cooperation among all parties. "Ideal" data needed for accurate communication involve three critical areas: size, color, and fabrication requirements. These areas include but are not limited to height, arc dimension, depiction of radius, assurance of color continuity (e. g., specifying "This glass is to match 1/4-inch bronze"), etching, or any other information pertinent to successful completion of the project.

—Glass Digest, 11/15/86

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BARRIER FREE ACCESS

There are some phrases in the industry that indicate more than they really are. Such is the case with "Barrier Free Access". The provisions for "Barrier Free Access" may be okay for wheelchair access, but what about access for the big guy? You never thought of that, did you? A friend recently asked me "Why are big guys always slumped over?" You should be proud of your height." Believe me, pride has nothing to do with it. It relates primarily to a life-long reaction to bumps on the noggin. It seems like every time I bump my head on ceiling protrusions, etc., there is a short person standing there, shocked, with the comment, "Ooooo, you just hit your head. Doesn't that hurt?" Of course it hurts, you little shrimp; don't you ever hit your head?

I don't consider above average height to be a "handicap", although tall people have to adapt to circumstances designed primarily for the masses. Basketball, a bizarre game using elongated human beings chasing an orange sphere around a wood floor with the descendants of peach baskets hanging at each end, has probably done more to establish the myth that giants are adaptable. We see these athletic giants in their colorful underwear-like uniforms run like the wind and jump like there is no gravity, but we don't see them trying to fit in an airplane seat, drive a Honda, sleep in a bed that extends just past the knees, or try to look in a mirror that adequately reflects the navel. I was recently asked, for the 100,000th time, "Did you play basketball?", to which I replied, "No, I have the body of a basketball player and the soul of a jockey."

Ceilings and door frames are constant adversaries of the big guy -- just sitting there, waiting

to bunk the unsuspecting cranium. I've always thought that Japanese automobiles are retribution for the numerous WWII movies starring John Wayne (another big guy). Every time I ride in a Japanese automobile, (I can drive only a very few), with my shins firmly against the dashboard, knees at my chin, I can't help but think that the Japanese are getting back at me for John Wayne winning the war in a bulldozer in "The Fighting Seabees".

The worst form of transportation for the big guy is the airplane. If God had meant the big guy to fly, he would have given us wings, or at least a propellor. Even short people know that airplanes have inadequate headroom and legroom. The worst thing about airplanes is the reclining seat. Every time I check in for seat assignment, I make a little prayer about keeping the seat in front of me vacant. In most airplanes, I can fit in the seat semi-comfortably with my knees close to the back of the seat in front of me. After the plane is airborne, the bozo in the seat in front of me decides to throw his seat back, crushing my knees with excruciating pain. It always seems like I'm violating the rights of the person in front if I ask him not to recline the seat. The last time I flew, I thought I was safe--the plane left the terminal without a passenger in the seat in front of me. Just as I was silently rejoicing about the empty seat, some guy from across the aisle sees the empty seat, and literally flies into it. Once airborne, this guy decides to recline the seat, naturally, using my knees as the seat's stop. Arghhhh.

So much for the laments of a semi-giant, and back to "Barrier Free Access". In achieving "Barrier Free Access", an alarming trend is developing allowing only for this type of access, and not leaving the

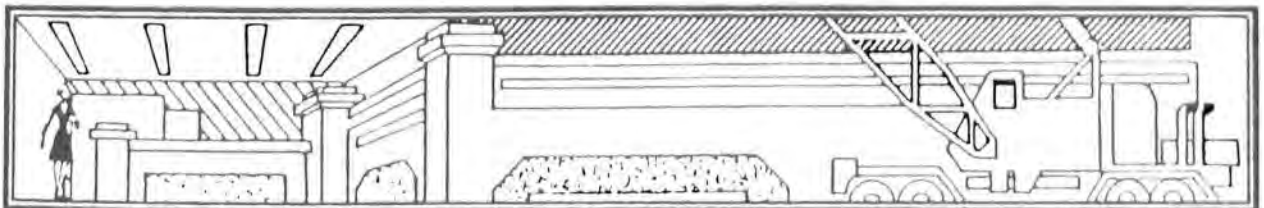
"normal" type of facilities. The "normal" size of things aren't perfect by a far shot, but much more tolerable than the compromised locations for the "handicapped" locations. When I have to bend a full 90° from the waist to drink at a drinking fountain, gravity can no longer assist the downward flow of the liquid. My least favorite fixture location is the urinal placed closer to my ankles than my knees. Not only does the placement of this fixture require extreme accuracy, the resulting splash almost necessitates wearing a raincoat and galoshes. I do like, however, the giant toilet that appears now and then in handicapped rest rooms, and have been known to fake a pronounced limp to be able to use this fixture. Being inherently lazy, I like ramps, but they are normally difficult to build and fit in a site. Nobody likes the handicapped parking spaces. Just once, I'd love to use one of those spots, and not have to squeeze out of my oversized car next to a van 6" away! As usual, you can't please everybody. The diversity in our society precludes accommodation for every type, but, if you make exceptions.....

Disclaimer

Neither the Spokane Chapter of CSI or the Editor of the "Punch List" are responsible for the contents of "nonspecs". "Nonspecs" is meant to be a humorous look at our industry. All events and individuals depicted are fictitious, and any similarity with any actual event or individual is coincidental. Any objection to this material should go directly to Mincks, who will probably say something like: "If you can't take a joke, then....."

from the PUNCH LIST, Spokane Chapter newsletter
by Bill Mincks, Jan. '87 issue

Products Fair '87 will be held at Montgomery Park, May 21, 1987.



CSI PRODUCTS FAIR '87 - "WORKING DRAWINGS"

Joseph M. Woods
CSI Products Fair '87 Chairman

GOALS-PART II:

The purpose of setting goals is to create better results. When setting goals one must keep an open mind. The single biggest deterrent to progress is people's attitude. A negative attitude kills you in your tracks before you even get started. Get rid of your negative attitudes and you can proceed with your goals and improvements.



Sometimes there is a tendency to assume too much. False assumptions cause great loss in your valuable time, and create many unnecessary costs. Ask questions, you'll be surprised at what you might

learn about your company and personnel. Listen to what other people have to say with an understanding. Let people explain the problem thoroughly before trying to find the solution.

One goal I feel that the construction industry lacks is the pre-construction phase. It is important for all parties involved on a project to sit down prior to any work beginning and review in depth drawings and specifications. As a rule field people are saying the estimator and the architect screwed up another good job, and the architect and office people of the construction firm are saying the field people do not know what they are doing. There just isn't enough pre-planning done by the average architect and contractor before the work starts. This pre-construction phase does not take a great deal of time, but will save time and money in the long run. You must be more fact oriented than action oriented. By pushing a pencil instead of pushing crews you get it right the first time.

All of us in the construction field have different goals and different ways in which goals have to be met. The company must have goals, both long and short term, and every project must have specific goals. In a case of project goals they must cover the entire life span of the project from start to final acceptance.

Don't be a wisher, have a purpose and set your goals or you will find yourself in the endless rat race. Goals determine what you achieve.

Robert Drury
President



Mr. and Mrs. Ross Macdonald



John Kehrl, Mr. and Mrs. Warren Koepke, with resident BS'er Ken Searl.

Retired CSI member Warren Koepke stopped in your editor's office the other day and admitted that he had come "out of retirement" and for a very good cause!

His son-in-law Ross P. Macdonald (who very promptly became a new member of the Portland Chapter CSI!) has formed a company called DIVISION SPECIALTIES, INC. This firm is a source for operable walls, folding partitions, and other building specialties. Warren will act in a consulting capacity. (I never thought you were old enough to retire Warren!) Well, until the new telephone directories come out, Division Specialties phone number is 643-0111. Direct any inquiries to Ross Macdonald, President or Warren Koepke, father-in-law to the President.

Roger Hall and Milt Serafin, of Westview Products, Dallas, Oregon were guests at our January meeting. They manufacture sunrooms.

Member News

Mr. and Mrs. Jeff Zidek are parents of a boy - Keane Patrick - born on Jan. 7, 1987! Congratulations!!

Many request copies of substitution form

SPECIFICS received nine requests for the substitution request form described in the December issue. The recommended standard form was endorsed by chapters in the Northwest Region CSI after it was presented by the Portland Chapter at their region conference.

A copy of the form is still available on request from SPECIFICS, 884-1632

From SPECIFICS, Mpls.-St. Paul Chapter CSI newsletter January 1987 issue

"That's Us Folks!"

from SPECTRUM, Puget Sound
Chapter newsletter, Jan. '87

Region News
by John Greiner

**INSTITUTE ELECTION
COMING UP**

To date, Institute elections have been decided by less than 20% of the membership. This is most unfortunate and reinforces the notion that the Institute is run by a select few. It is apathy that has led to this condition.

This year we have David Thomas, a member of Puget Sound Chapter, as a nominee for Institute Vice President. Let's all get behind Dave and support his nomination by voting and by voting early! Read the data and the ballot when it arrives. Before setting it aside, take a moment and cast your vote.

If we all vote as responsible members of CSI, not only will we continue the custom of having a member of our Region on the Executive Committee, we will set new standards of response for others in the membership to strive toward. Thank you for your assistance. John Greiner, Region Director

NOVEMBER PANELIST

Sub wants favorable atmosphere if he's going to bid a job

"If I'm going to bid a job, I'd like to have a favorable atmosphere: decent plans and specifications; a 'closed' spec, ideally, or at least have unequals as alternates; an opportunity for profit, payment in a timely manner."

This point of view comes from **Harvey Andruss**, vice president of ArmCom Distributors, based on 32 years in construction. He was one of three panelists speaking at the November joint CSI/ASPE meeting.

The payment issue is serious, he says. Many receivables are running 60 to 70 days, whereas he must pay suppliers right away to get a cash discount.

Andruss lists the sequence of pursuing a successful project, beginning with calling on the architect and providing information for specification. When documents are out for bids, it's necessary to protect the specification against non-equal bidding. Then the job is taken off and bid. For future bidding, it's important to be given information on what low subbids were.

Andruss says they weigh three decision factors in bidding:

- (1) Which jobs to bid. They look at time frame of the job, the time available to prepare the bid and the specific conditions of the job.
- (2) Which general contractors to bid to. Do they run a good job, pay promptly? Do they peddle bids? They don't give out different prices. They just don't bid certain contractors.
- (3) What their "offer" will be. Their bid includes section number(s), price, taxes included, work included and excluded, unit



prices if required, time restrictions of bid (bid based on completion before labor rate increase, for example,) minority hiring requirements followed, bonding

If their bid is extremely low he believes the general contractor is obligated to notify them and to give them a chance to withdraw.

The three-hour bid code practice is fairly well followed here, in his opinion

From SPECIFICS, Mpls.—St. Paul Chapter CSI newsletter January 1987 issue

The following tidbit from the Jan. 1987 issue of Les Speques (Baton Rouge Chapter CSI newsletter) seems appropriate.

**View From The Cat
Bird Seat**

by Don L. Emden

CSI has the best organization in Baton Rouge. It must also be the most effecient, when a handful of individuals, it seems the same individuals, do all the work for the rest of us. I can accept this o.k., I don't like it but I can accept it. What I can't understand is there are a few who seem to find the energy to complain about what is being done but rarely, if ever, are around to help us plan our work and work our plan. This attitude of "let George or Georgia do it" and by damn they better do it right, really strikes me as being a tremendous waste of talent and energy.

Some, I know, really do not have as much time to devote to CSI as others, but I know each of us, as members, can take time to work on some project toward the success of our Chapter. Remember, this is your CSI Chapter. It is here for your benefit. We will be as great as you want us to be.

This month we elect new officers. They will have an opportunity to set precedence in excellence here in Baton Rouge, state and nationwide. With your support I am confident we will succeed!

(Note to Portland Chapter members: if you want to edit The Predicator next year please, PLEASE come forward!!! It's not hard, and can be very satisfying! ed)

NORTHWEST REGION

- 1 Cook Inlet (Anchorage, Alaska)
3rd Tuesday of month
5:30 pm. Anchorage Int'l Inn
- 2 Idaho (Boise Idaho)
1st Tuesday of month
6:30 pm. University Inn
- 3 Portland (Portland, Oregon)
2nd Tuesday of month
5:30 pm. Westin Benson Hotel
- 4 Puget Sound (Seattle, Wa.)
2nd Thursday of month
5:30 pm. Meany Hotel Towers, 45th & Brooklyn in University District
- 5 Spokane (Spokane, Wa.)
2nd Thursday of month, 6:30 pm.
at various locations. 838-8681
- 6 Willamette Valley (Eugene, Oregon)
Last Thursday of the month
5:30 pm. Bev's Steak House



SCHEDULE—PORTLAND CHAPTER CSI

Board of Directors—1st Tues. each month
Dinner Meeting—2nd Tues. each month

The Portland Chapter CSI newsletter The Predicator is mailed at no charge to CSI members once a month. Additional copies are mailed to selected firms and organizations. Circulation is 900 copies

Deadline for newsletter contributions—3rd Mon. each month.

The Predicator is mailed the last day of each month.

Advertising Policy:

1 full page insert	
CSI member	\$125.00
Non-CSI member	\$150.00
2 full page insert	
CSI member	\$175.00
Non-CSI member	\$200.00

The Predicator is published 11 times a year

Thought for the day...One of our members has suggested that architects refrain from calling for bids the week of February 23, 1987. It seems that EVERYBODY is going to San Francisco for the 100th Anniversary NRCA Roofing Convention! (your editor included.)

PORTLAND CHAPTER LEADERS, 1986-1987

President, Denner Latham	222-1917
President-elect, Curtis Finch	222-1661
Secretary, John Barker	231-9118
Treasurer, Dennis Obert	245-7802
1985-1986 President, Margie Largent	636-6977

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Roy Josi, Prof. '88	226-8462
Tom Shea, Ind. '88	760-6433
John Brockamp, Ind. '87	655-9151
Jolie Stricklin, Pro. '87	221-1421
Bruce Townsend, Pro. '87	228-6444

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Certification: Lee Kilbourn	224-3860
Editor: Inga Vrla	635-6227
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Hospitality: John Kehrl	644-7102
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Library: Candace Robertson	222-3753
Long Range Planning: Richard Ehmann	644-4222
Membership: John Brockamp	655-9151
Nominating Committee: Margie Largent	636-6977
Products Fair: Joe Woods	232-4000
Programs: Curt Finch	222-1661
Publicity: Joe Woods	232-4000
Technical Documents: Paul Wilson	226-0622

REGION RESPONSIBILITIES for Portland Chapter Members

Institute Specification Competition Committee.	
Lee Kilbourn	224-3860
Technical Documents Committee.	
Robert Klas	644-4222
CSI Appointee to Amer. Arbitration Assn. Regional Construction Advisory Committee, Wm. Merritt	248-0343
CCS/Certificate Chairman, Ken Searl	223-1181

REGION DIRECTORS

John Greiner	(206) 455-5236
Greiner & Assoc. P.O. Box 1927 Bellevue, Washington 98009	
Richard Gira	(503) 224-8226
N.W. Lath & Plaster Trust, 4621 SW Kelly Portland, Oregon 97201	

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Member News

ASK A FRIEND TO JOIN CSI TODAY!

The Portland Chapter of CSI would like to increase it's member count from 274 to 300 members by June 1987.

The need to know about the latest developments both in one's own discipline and the industry in general, is one of the main reasons members join CSI.

Our clients depend on us to know about the latest developments, particularly in our own discipline. Because of the competitive climate we are in, an invitation to join CSI may be the best favor we can do for our friends this year! It is a double benefit; both for our friend and the CSI. Ask a friend to join CSI today!
John Brockamp



New member, M. K. (Kitty) Meyers

Institute and Portland Chapter Dues for the year are as follows: Institute \$110.00, Portland Chapter \$20.00. Total investment is \$130.00. Please send your check for \$130.00 payable to the Construction Specifications Institute to John Brockamp, at the CSI offices, 1125 SE Madison, Suite 200, Portland, Or 97214.

The Predicator

Editor, Inga Vrla
1125 S.E. Madison, #200
Portland, OR 97214

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! RSVP: DINNER MEETING—238-1462 !



President's Column by Dennet Latham

At the roundtable talk before the February Chapter meeting, the topic of discussion was Specification Enforcement. The key question asked was, if there is an apparent lack of specification enforcement today, then what is the first step we as members of CSI can do to improve the situation?

After listening to the arguments of the November Chapter meeting panel discussion it seems apparent that in order for specifications to be enforced they first have to be enforceable. To make specifications enforceable, the design professional (including designers, project architects/engineers, managers, specifications writers, construction administrators) have to have the right attitude and sense of responsibility toward the project specifications.

The "right attitude" consists of a strong belief that specifications are essential to the successful execution of the project design intent. Have you heard these comments before? "Don't waste time on the specs, they don't read them anyway", or "Next time you write a spec make it half as long", or "On Monday you will receive drawings for a high school project; have the specifications by Friday", or "We don't have time to put it in the specification, we will put it in the addendum", or "We will work it out during shop drawings". All these comments indicate a poor attitude toward the idea that specifications are important, along with the drawings, for communi-

March Program March 10, 1987

COMPUTER AIDED DRAFTING

The program for March 12, 1987 will be a panel discussion about integrating C.A.D. into the office. Points to be considered will be the cost justification, implementation including management scheduling, training required, affects on contractors, building suppliers, service bureaus, software and hardware. Panelists are:

Dave Soderstrom, Soderstrom Architects
Heinz Rudolph, B.O.O.R.A.
Phil Beyl, B.G.B.G. Architects
Oliver Collins, McDonnell Douglas

The moderator will be Arden Newbrook. Come prepared with questions and perhaps a "wish list" for what C.A.D. could do better.

- WHERE: Westin Benson Hotel
- DATE: March 10, 1987. 5:00 - 6:30 Roundtable and social hour. Cash bar.
6:30 - 9:00 Dinner and program.
- COST: \$15.00 per person. Friends, spouses and guests are always welcome!
- RSVP: CSI Offices, 238-1462 by noon on Monday prior to the meeting.

REMEMBER THAT THE PARKING WILL COST YOU \$1 in the parking garage.

ating the design professional's (and Owner's) intent to the contractor. By establishing very early in a project that specifications can and should be an integral part of the contract documents the first step has been taken to make specifications enforceable.

Along with the right attitude, the design professional must have a sense of responsibility toward making specifications complete, technically accurate, and well coordinated with the drawings if the quality of the communication with the contractors is going to

improve. The CSI Manual of Practice, including the Masterformat, and the other CSI documents are available to provide guidelines for assisting the design profession to improve the quality of specifications.

With the proper attitude and sense of responsibility toward specifications the design professional has taken appropriate first steps toward enforceable specifications. Once the desire is established, all that remains to do to make specifications enforceable is just plain hard work!

CSI Board of Directors, Meeting, Feb. 3, 1987

Present: Latham, Barker, Stricklin, Largent, Finch, Obert, Townsend, Josi, Gira.

Meeting began at 12:10pm. Minutes were read and approved.

Treasurer's Report Obert has a new format to better suit our needs. It features a summary page followed by detailed line items by committee. Very detailed reports will be available to the committees. The Board will receive a summarized version. The Board voted to adopt the new format.

Programs Finch reviewed this month's program. March will be on Computer Aided Drafting. Based on lapses during last month's program there was general discussion reiterating the chapter policy on non-proprietary language.

Certification Kilbourn is definitely in charge of the chapter's study program and will organize it with the help of Jim Peterson.

Education A session on construction economics is planned for April.

Long Range Planning Two copies of the Chapter Guide are under review. Each director is responsible that their committee chairs review it as well.

Library Multnomah County Library is interested in particulars for space and expense. It was noted that the new PGE Energy Resource Center in Tualatin includes a library replete with all CSI documents!

Products Fair 31 booths sold. Buffet dinner is to cost \$15.00.

Newsletter 878 were sent this month.

New Business Parking at the Benson will no longer be gratis. The cost is \$3.00 but the Benson will rebate \$2.00. Renewed concern was expressed as to the suitability of the Benson to our needs based on this and numerous other inconveniences. Obert volunteered to serve on a committee to research other locations.

Commercial Builders Industry Exposition: CSI has a booth for this 3-day show March 19, 20, 21. To date we have no chairman to organize our staffing of it. Latham will recruit one. We will request the CSI display from Institute HQ.

Leadership Training: To avoid a conflict with Easter, the date has tentatively been moved to April 10, 11. This poses problems for us as we will not have had elections. We will either try to change our usual election schedule or preferably that of the conference. Respectfully submitted, John Barker
AIA/CSI, Secretary

Product Shows Preview

Willamette Valley Chapter is sponsoring a Products Fair on April 30, 1987, from 11:00am to 6:00 pm at the Eugene Conference Center/Eugene Hilton Hotel.

Mark your calendar to attend and if you are interested in participating with a booth, please contact Wayne Brock (686-0217) or Linn West (746-8231) or write Products Fair 1987, 3356 Chaucer Way, Eugene, Or. 97405.

The Portland Chapter Products Fair '87 with the theme "Working Drawings" is scheduled for May 21, 1987 at Montgomery Park, Portland, Or.

Joe Woods is promising us a very interesting and informative show. Watch for more information in the months to come. If you are going to display product, don't wait too long to secure your space. The good locations go FIRST!

Contact Joe Woods at CSI Products Fair '87, P. O. Box 12053, Portland, Or. 97212

If you are going to be in Seattle the 4th thru the 6th of March, plan to attend the Design Professionals & Engineering Expo '87 at Sea-Tac Red Lion Inn, Seattle, Wa.

This show is sponsored by Consulting Engineers Council of Washington and Puget Sound Chapter of CSI. For more information contact Patricia Strand, EXPO '87 Manager, CECOR, Inc., 909 Tower Bldg., 7th & Olive Way, Seattle, WA 98101. Phone 206/623-6849 or 623-5936.

SAY YES TO DETROIT IN '87



905 Exhibit Booths
Over 40 Educational
Programs at
CSI's 31st Annual
Convention/Exhibit
Detroit Michigan
June 26-28, 1987



**MAKE YOUR
PLANS NOW.**



IDE be remiss if I didn't remind
you of the board meeting 3/3/87

CSI Targets Seminar to Architects, Engineers, Specifiers

Speaking a common language is especially important if ideas are to be communicated with understanding and enacted with precision. A common language becomes even more important when these ideas pertain to building design and construction, for then a team of people must agree on the meaning of the terms used.

The Construction Specification Institute will present "Specifications and Construction Contracts", a seminar addressing its documentation system, which gives all members of a construction team common specifications by which to build. The seminar, slated for March 9-11 in Charlotte, NC, will focus on CSI's recommended practices, outlined in its Manual of Practice.

Architects, engineers, and specifiers who attend the seminar will participate in a variety of learning methods: lecture, readings, group discussion, written exercises, and case study analyses. They will also receive a copy of the 1985 CSI Manual of Practice and Masterformat as the course text.

Instructors Sheldon B. Israel, FCSI, CCS; Joseph H. Kasimer, Esq.; George A. VanNiel, FCSI, CCS; and Mark J. Kalin, CCS, will cover such topics as "Elements of a Project Manual," "Contract Forms and Conditions and Their Legal Implications," "Methods of Specification", etc. The instructors possess much expertise in both actual contract administration and project administration.

Participation in the seminar furnishes the attendee with 0.6 nationally accepted continuing education unit. The attendee also receives a certificate upon completion. CSI maintains records of non-credit educational experience.

Because individualized instruction is a premium of this seminar, attendance will be limited to 40 participants. Registrants are urged to sign up early to secure a place.

The seminar costs \$425 for CSI members, \$475 for non-members. To register, contact the Manager of Education Programs, CSI, 601 Madison St., Alexandria, VA 22314-1791; (703) 684-0300.

Architects Engineers Specifiers . . .

How long has it been since you edited your office master?

Or, evaluated your document preparation?

CSI Professional Development Seminar

Specifications and Construction Contracts

March 9-11, 1987
Charlotte, NC

CSI's three-day course looks at:

- A comprehensive system for documentation and formatting
- Developing and maintaining an office master
- Legal implications of specifications
- The new AIA A201 document
- Computer applications to streamline document production.

For more information
CALL

Education Program
Coordinator
(703) 684-0300



The Construction Specifications Institute
601 Madison Street
Alexandria, VA 22314

BS by KS

Basic Specs by Ken Searl

At a recent specifications judging meeting for National Awards, I came across the following: INSPECTION OF THE DRAWINGS - No claim for extra charges will be allowed for any work, material and/or services which could have been foreseen and included in quotation for this Division. (I like this one, almost as good as doing the work to the entire satisfaction of the Architect.) Another specification under finish hardware showed: A Locksets ??? No addendum was furnished so I wonder just what was furnished.

For those of you that use the Table of Products published by the local Painting and Decorating Contractors Association (PDCA), I have been informed the new issue will be out within the next 90 days. If you don't use this item in your specifications, I suggest you consider doing so. It can be a big help in your painting specification section.

We now have on hand an 11 X 17 calendar listing Northwest Region activities for the fiscal year 1987. It includes major Region and Chapter happenings. If you would like a copy let me know. Also consider getting your chapter to supply information on events and dates for future calendars.

In writing specifications beware of jumping to conclusions based on past experiences in the selection of products or systems. It may lead to excessive caution or over confidence when facing new situations. Be cautious in trying new products or methods but don't be afraid to stick out your neck after proper investigation. Remember a turtle goes nowhere until he sticks out his neck.

The next Northwest Region Council meeting and leadership training will be held in Seattle on April 10th and 11th. The Puget Sound Chapter has a meeting the night before on April 9th. For those of us that can make it to this meeting lets go and harrass them or something.

Bid: A wild guess carried out to two decimal places.

Low Bidder: A contractor who is wondering what he left out.



Dave Driscoll (center) shown with Neal Jacques and Betty Bellwood.



Jeff Mendes and guest.

February Dinner Meeting

by Perky Kilbourn

Portland Chapter CSI members learned about dirt and how to specify it on Tuesday, Feb. 10, 1987.

David Driscoll of Geotechnical Resources, Inc. had five specific points in his presentation.

WHY WRITE SPECIFICATIONS? Driscoll answered this question by stating first because the specifications are a means of obtaining quality...second, because the specifications are used to establish contractor performance, and third, the performance of the structure may be predicted.

COMMON ITEMS TO BE SPECIFIED When you talk about quality then you are discussing things like the size of the particles, site preparation and other characteristics of soil including the moisture content.

SOIL BEHAVIOR The amount of water in soil is a factor in the ability to compact the soil. Driscoll gave us two definitions; one for dry density, which is the pounds per cubic foot of soil and moisture content or the percent of complete saturation.

There is a point where compaction is optimal i.e., the amount of water in the soil allows for maximum compaction. This point is found by plotting dry density in pounds per cubic foot against moisture content in percent.

COMPARISON OF COMPACTION SPECIFICATIONS The Proctor Soil Standard is the same as ASTM D698 and AASHTO T99 and Corps of Engineers CE-26. While the Modified Proctor Soil Standard is the same as ASTM D1557 and as



Guests Bob Baldrige, Dick Cowing, and Bruce Rapacz (left to right) from the Corp of Engineers.

AASHTO T188 and the Corps of Engineers CE-55. The standards are almost the same but the modified Proctor Soil Standard has a higher curve when plotting dry density against moisture content.

Driscoll also showed us how soil behaves and the effect of water on undrained soil shear strength, compression index, Young's modulus and permeability. You should select the property you want the soil to have before writing the specification and then run tests to determine how to get what you have specified.

SLIDES AND CASE HISTORIES OF JOBS WHERE THINGS HAVE GONE WRONG

Driscoll read a sentence from a specification and showed what happens when the specification is not complied with.

The meeting was followed by a brief but lively question and answer period. Dennis Obert, the treasurer stressed that with the excellent meetings that the Portland Chapter has been having, reservations need to be made no later than Monday noon or you may not have a dinner or any place to sit.

64 members and guests attended.

Leadership Conference Scheduled

The Northwest Region Annual Leadership Training Conference is scheduled for April 10-11 in Seattle, Wa. The details have not been cleared as yet, but this is one conference CSI members should not miss.

It is an especially important session for those members who are new officers and committee chairpeople, but, it is not limited to their participation only. This is a time for all members to share their leadership experience with the newcomers and novices. In other words, to share what it means to produce a products show or how does one find interesting speakers...for dinner meetings, etc.

I have personally found these conferences to be very helpful, as well as an opportunity to better get acquainted with other CSI Region chapter members.

Exterior Insulation vs. Alternative Exterior Walls—Why? and Which?

More architects are specifying exterior insulation systems, defined as "systems of at least two components, one of which provides insulation." The Exterior Insulation Manufacturers Association (EIMA) classifies the systems by their protective coatings and type PB (polymer base), PM (polymer modified), and MB (mineral based), external reinforced, cloth, lath, internal reinforced, random fibers or unreinforced. The insulation component is particular to each system and provides at least R-2 per inch when tested.

Why do architects choose an exterior rather than interior insulation system? Energy cost savings is one reason. Insulation outside the building's frame reduces stress caused by expansion-contraction movements. This in turn reduces moisture and thermal breaks, creating a more stable temperature inside the structure.

Space savings, design flexibility, weight reduction, and easier installation of mechanical lines (building cavities are free of bulky material) also contribute to the list of advantages. One caution avoid mixing or combining components of more than one system manufacturer, because system elements are designed to be complementary.

—Construction Dimensions, 11/86



IDE wait an hour*

On an unbelievably beautiful sunny Feb. 5 afternoon, SEVEN steadfast CSI'ers met at Pardue Masonry for the first plant tour sponsored by the Education Committee of Portland Chapter CSI.

Our host, Lenny Pardue had coffee and donuts waiting for us, and as always happens with a "small class" he had our undivided attention.

Pardue Masonry is one of three companies in the U. S. that is manufacturing brick panels. The most obvious advantage is time savings, because bricklayers work under cover, and are not hampered by bad weather. Building brick panels makes it feasible to design brick high rise buildings. Brick seems to flex more than other face materials, a desirable quality in high wind and earthquake zones.

Currently, Pardue Masonry is constructing panels for a building in Palo Alto, CA. A great percentage of the total panels are different and with their electronic setup are able to create these different panels efficiently. The brick panel system is labor intensive but the results are well worth it, as architects and designers area beginning to realize. The KOIN Tower in Portland, while it was not Pardue's project, is an example of a brick high rise facade.

According to Pardue, the average panel costs \$14 to \$15 per square foot.

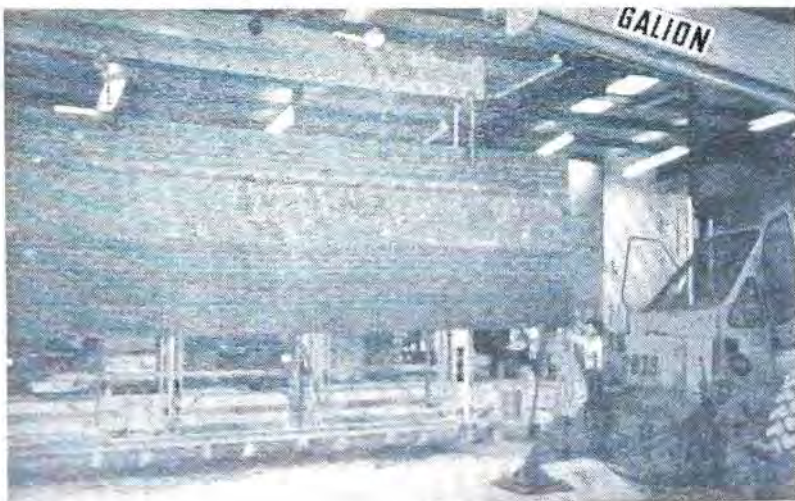
Thank you, Lenny Pardue, we enjoyed your hospitality. Attending were William Hite, Gary Scott, Jeff Mendes, Gary Zagelow, Dick Gira, Tom Hammer and Inga Vrla

(Editor)

Pardue Masonry Field Trip Proves Informative



Lenny Pardue (shown on left) discussing finer points of masonry panel construction at recent plant tour.



Finished panel is being raised in order to clean and "strike joints" on bottom of panel.

New Market in Faux Finishes

Seeing is not believing where finishes are concerned. Floors, furniture, walls, moldings, and fireplaces which look like expensive woods or marble may instead boast faux finishes.

Practically has made them popular, their popularity has created a new market for the enterprising contractor.

Precise handpainting with brushes, sponges, and other tools—to imitate wood grain or marble—creates the look. Daniel Wilson of Wilson Workshop, Carmichael, California, has been offering faux finish services since 1978. "The technique sells itself. When people see it they want it," he says. Though the technique dates from early Egyptian history and has been used from Italy to England (especially in the Victorian age) modern high tech caused faux finish "know-how" to die. The restoration industry may have encouraged its rebirth.

Faux finishes can dress up plain walls or solve spatial decorating problems. Glazing can alter perceived depth and height of walls or ceilings, wood painted to look like marble both looks and feels warmer—and takes less cold cash to install.

Glazing, marbling, and graining constitute the faux finish process. Glazing, applying translucent treatments or glazes made up of flat varnish, glycerine compounds, and color over a solid color base coat, can be "pounced" or mottled to give a broken color effect, sand or other materials can be added to achieve texture. Marbling is painting which simulates marble, while graining, of course, simulates choice wood grain.

The work is labor-intensive. Experts offer these guidelines to avoid common mistakes: when estimating, measure, take photographs, and get a good idea of what the client wants. Look at what needs to be taped. Do careful figuring at the office rather than giving a price on site at the first visit. Make samples for the customer and examine them next to the surface to see the finish in the same light.

Contractors interested in tapping this market should probably go to school first. The National Paint & Coatings Association offers fact sheets and information. Send requests to 1500 Rhode Island Ave., NW, Washington, D.C. 20005.

—Painting and Wallcovering Contractor, Nov./Dec. '86



Paul Wilson

New Tax Law Limits Some Deductions, Fully Endorses Others

Membership dues which can be justified as an "ordinary and necessary business expense" are still tax deductible. An IRS spokesman says this applies to all forms of business, be they corporation, partnership, or sole proprietor.

Travel and entertainment expenses (meals, other entertainment, taxes, tips) are 80% deductible under the new law. Transportation to and from a business meal, however, is still 100% deductible. Certain exceptions exist under "subsidized eating facility" rules.

Year-end holiday parties for employees, promotional activities for the public, samples, and expenses incurred at a banquet where a speaker is present are exempted from the 80% rule.

Section 1707 of the Tax Reform Act reinstates permanently the business tax deduction for removing barriers to the disabled and aging. A business can deduct up to \$35,000 annually of capital expenditures for the removal of architectural and transportation barriers. These improvements must be made at existing buildings, facilities, or on public transportation vehicles owned or leased by the taxpayer for use in a trade or business; the rule does not apply to new construction. Free information can be acquired from the Eastern Paralyzed Veterans Association (EPVA). They will send a brochure, a booklet showing proper design of access elements and a copy of the pertinent IRS regulations if you contact them at 432 Park Avenue South, New York, NY 10016, (212) 686-6770.

—ACEC The Last Word, 1/2/87
—EPVA News, 11/21/86



M. Shipley



Pictured at February Roundtable are (left to right) Dennet Latham, Bruce Townsend, Paul Wilson, Margie Largent, M. Shipley

IDE be happy to include your advertising insert in The Predicator next month! ★

Mainland China Tour Set

A tour of Mainland China created specifically for West and Northwest Region CSI members is being sponsored by Henry W. Berg, CCS, VP, East Bay/Oakland Chapter, and his wife Robin.

The tour will be of limited size and will focus on China's architectural heritage and current developments in China's construction industry.

Limited to 18 participants the tour will be highlighted by informal conversations with local architectural and construction professionals. The small size of the group will also permit the flexibility to visit areas not suitable for larger groups.

According to Robin Berg, companions of CSI members will have plenty to see, "...a lot more than just a bunch of buildings."

Early registrants will have the opportunity to make special requests and arrange for activities of personal interest.

Pre-departure orientation seminars will be held covering the following topics: Tour Overview, Developments in China Today, China's Architectural Heritage, and Current Construction Practices in China.

Travel arrangements will be booked with Cultural Travel, Inc., of Hong Kong, with offices in L.A., Honolulu, and Vancouver. The Bergs will act as agents of Cultural Travel for Bay Area participants.

The 21-day tour will depart on Sept. 26, 1987. An additional Hawaii stop-over is available for those wishing to "rest up" from their vacation before returning home. Please contact Robin Berg, 1423 Cottage St., Alameda, CA.

94501; telephone (415)522-5416 for further information.



David E. Thomas
Nominee: Vice-President,
Industry/Associate

David E. Thomas, nominee for Vice-President, Industry/Associate

David E. Thomas is distributor, contractor, and owner of Thomas Architectural Products, Inc. He joined CSI as an industry member of the Puget Sound Chapter in 1969.

A former president, vice-president, director, and treasurer, he has also chaired the Puget Sound Chapter's Membership and Education Committees and has been a member of the Long Range Planning Committee. He has served as special advisor for the Program Committee and has represented his chapter as a delegate to many annual conventions and region conferences.

In addition to serving his region as a conference panelist and speaker, he has been a member of the Director's Advisory Committee, Specifications Competition Enforcement Committee, Region Guide Review Committee, and Tri-Region Conference Committee. He has also conducted region training seminars.

He has served the Institute as Northwest Region Director and has been a member of both the Institute's Ad Hoc Committee on Membership Classification and the Resolution Committee. He has also written for The Construction Specifier and has acted as a delegate-at-large at several annual conventions.

He has received his chapter's Albert E. Barnes Award, President's Distinguished Service Award, and Hugh S. Hallet Award. He has also been awarded a Region Director's Citation and the Institute's President's Plaque and Certificate of Merit and Appreciation.



Willamette Valley Dinner Meeting

A brief report on an excellent dinner meeting which I attended at the Willamette Valley Chapter on Jan. 22, 1987 follows.

Russell Sadler, a well known Oregon business analyst spoke about the current economic climate in our state. He titled his speech, The Game of Getting the Goodies or How To Wallow in the Public Trough.

His was a light-hearted approach to life and his comments were generally up-beat. Basically, however, he spoke about our new governor and what Mr. Goldschmidt expects to accomplish during his tenure.

At least 100 people attended this dinner meeting, including Region Directors Dick Gira and John Greiner.

I drove home that evening with the feeling that there was hope for us and business in Oregon! I know this commentary isn't saying much, BUT, you COULD HAVE BEEN THERE! Or we could invite Mr. Sadler to Portland! (Editor)

AIA/CSI Golf Tournament

The Annual CSI/AIA Golf Tournament will be held on Friday, June 5, 1987 at the Cedars Golf Club near Vancouver, WA. Come join the fun and play a challenging golf course.

Prizes to be awarded for long drive and KP's. Golfer with low gross score to receive AIA/CSI annual golf tournament travelling trophy donated by the Masonry and Ceramic Tile Institute of Oregon.

To reserve a tee time, please contact Kerry Shampine at Van Gulik/Oliver Engineers, Inc. 635-3734.

NORTHWEST REGION

1. Cook Inlet, Anchorage, Alaska
 3rd Tuesday of month
 5:30 pm. Anchorage Int'l. Inn
2. Idaho (Boise Idaho)
 1st Tuesday of month
 6:30 pm. University Inn
3. Portland (Portland, Oregon)
 2nd Tuesday of month
 5:30 pm. Westin Benson Hotel
4. Puget Sound (Seattle, Wa.)
 2nd Thursday of month
 5:30 pm. Meany Hotel Towers, 45th & Brooklyn in University District
5. Spokane (Spokane, Wa.)
 2nd Thursday of month. 6:30 pm.
 at various locations. 838-8681
6. Willamette Valley (Eugene, Oregon)
 Last Thursday of the month
 5:30 pm. Bev's Steak House



★

IDE do a "letter to the editor" if I had one.

SCHEDULE — PORTLAND CHAPTER CSI

Board of Directors — 1st Tues. each month
 Dinner Meeting — 2nd Tues. each month

The Portland Chapter CSI newsletter The Predicator is mailed at no charge to CSI members once a month. Additional copies are mailed to selected firms and organizations. Circulation is 900 copies.

Deadline for newsletter contributions — 3rd Mon. each month.

The Predicator is mailed the last day of each month.

Advertising Policy:

1 full page insert	
CSI member	\$125.00
Non-CSI member	\$150.00
2 full page insert	
CSI member	\$175.00
Non-CSI member	\$200.00

The Predicator is published 11 times a year.

PORTLAND CHAPTER LEADERS, 1986-1987

President, Dennet Latham	222-1917
President-elect, Curtis Finch	636-9270
Secretary, John Barker	231-9118
Treasurer, Dennis Obert	245-7802
1985-1986 President, Margie Largent	636-6977

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Bruce Townsend, Pro. '87	228-6444

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Products Fair: Joe Woods	232-4000
Programs: Curt Finch	636-9270
Publicity: Joe Woods	232-4000
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REGION RESPONSIBILITIES for Portland Chapter Members

Institute Specification Competition Committee, Lee Kilbourn	224-3860
Technical Documents Committee, Robert Klas	644-4222
CSI Appointee to Amer. Arbitration Assn. Regional Construction Advisory Committee, Wm. Merritt	248-0343
CCS/Certificate Chairman, Ken Searl	223-1181

REGION DIRECTORS

John Greiner Greiner & Assoc. P.O. Box 1927 Bellevue, Washington 98009	(206) 455-5236
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ROUTING LIST

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Roundtable participants (l to r) M. Shipley, Dick Ehmann, Al Schulz, Lee Kilbourn, Jolie Stricklin, Bob Klas.

Institute and Portland Chapter Dues for the year are as follows: Institute \$110.00, Portland Chapter \$20.00. Total investment is \$130.00. Please send your check for \$130.00 payable to the Construction Specifications Institute to John Brockamp, at the CSI offices, 1125 SE. Madison, Suite 200, Portland, Or. 97214.

The Predicator

Editor, Inga Vrla
1125 S.E. Madison, #200
Portland, OR 97214

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THE PREDICATOR

Advancement of
Construction Technology

Construction Specifications Institute - Portland Chapter
1125 SE Madison, Rm 200 Portland, OR 97214 238-1462

Vol. 26 No. 9

April 1987

AMERICA DISCOVERS COLUMBUS



The President's Column by Dennet Latham

Each spring the CSI Northwest Region sponsors a leadership conference for those CSI members interested in acting as chapter officers or committee chair people. Acting Region Directors and Region Committee chairs run workshops on Chapter Administration and operations of standing committees. Persons representing each office or committee from each of the six chapters in the Northwest Region have the opportunity to meet together at one time.

This year the Leadership Conference will be held on Friday, April 10 and Saturday, April 11 at the Marriott Hotel at Sea-Tac, 3201 S. 176th, Seattle, Wa., (206)241-2000 or (800)228-9290. See following schedule.

The Leadership Conference is open to all CSI members. It is especially for those members who are officers and committee chairs, or prospective officers and committee members who are interested in learning how CSI chapters and regions are organized and operate. The workshops give leaders and potential leaders an opportunity to learn from the region leaders and other chapters how to establish committees and successful programs for the coming years. It is a chance to learn from our past experiences and to discuss ideas for the future.

If you are interested in attending the conference, or just interested in being on a committee in the Portland Chapter, give me a call at 222-1917. If you plan to stay overnight Friday, make your room reservation at the Marriott directly. See you there!

Region Director Dick Gira is the featured speaker at our April 14 Dinner Meeting. The subject of his comments will be "a look at architecture in Columbus, Indiana". Dick promises us an enjoyable and informative evening complete with slides and photographic display of the significant architecture of the region, which just by coincidence is Mr. Gira's home territory!

Where: West in Benson Hotel
Date: April 14 (Passover) 1987
5-6:30 Roundtable and social hour. Cash bar.
6:30-9 pm Dinner and program.
Cost: \$15.00/person. Friends, spouses & guests always welcome!
RSVP: CSI offices, 238-1462 by noon on Monday prior to meeting.
Remember that validated parking costs \$1.00 at the parking garage.

LEADERSHIP CONFERENCE Schedule

Friday April 10, 1987

12 Noon to 1:00 pm Registration
1:pm to 1:15pm Welcome/Opening remarks
1:15pm to 3:pm Leadership Forum #1. Review and application of Administrative References

3:pm to 3:30pm Break
3:30 to 5:15pm Leadership Forum #2. Review and application of Region & Chapter Guides
5:15pm Announcements

Saturday April 11, 1987

7:30am to 8:30am Region Budget Meeting
8:30am to 9:30am Workshops TDC-Certification-Membership-Education-Awards-Chapter Administration-Publications-Conferences
9:30am to 10:am Break
10:am to 11:55am Coordinating Council Meeting
1:55am Closing Comments

AWARDS

It's that time of year again for the annual CSI AWARDS nominations. A form was distributed at the March 10 dinner meeting which needs to be returned to Jolie Stricklin by April 15!

If you do not have this nomination form, give Jolie a call at 222-5530 for a replacement.

If someone you know deserves CSI recognition, now is your chance!

Also remember to vote for your most favorite program of the year as well.

Board of Directors, March 3, 1987

Present: Latham, Barker, Stricklin, Largent, Finch, Shea, Ubert, Vrla.
Absent: Brockamp, Townsend, Josi, Daniels

Meeting began at 12:11 pm. Minutes were read and approved.

Treasurer's Report Dennis presented a current balance sheet. Line items appear to be in line. Significant income is shown from Products Fair as anticipated.

Programs Curt Finch reported tentative details of the April and June meetings. April on Terra Cotta, and the final program in June at the Portland Zoo, featuring a tour of new buildings, concluding with dinner - maybe at the Forestry Center or Japanese Garden Teahouse with conveyance provided by the Zoo Train?

Technical Documents Jolie reported, the last meeting was cancelled since most members (mostly board members) were too busy (mostly with other CSI business).

Certification Jolie reported two have signed up for the CCS exam and five for the Certificate Program. Five weekly classes starting March 4 will be held at B.O.O.R.A. offices with various people lecturing. The Board agreed to charge a nominal \$15 fee for this course to offset printing expenses and encourage attendance.

Long Range Planning Review of draft continues.

Library Candace Robertson will contact CSI Institute HQ for possible document and financial contributions. She is directed to begin to place orders for documents as well.

Products fair Barker reported for Woods that 60-70 booths have been sold. The poster is in production.

Hospitality A new type badge was discussed, since the present type used is no longer available. More discussion later.

Awards Shea reported nomination forms will be ready for the chapter meeting March 10.

Nominations After extensive discussion, the Board decided to have one, not two candidates for each position. (There is usually enough work just finding one.) Nominations will be accepted from the floor. The slate will be ready for the March 10 meeting. Elections are in April. Nominees are expected to attend the Region Leadership Training Session.

Old Business Joe Woods is coordinating staffing for the CSI booth at the CBI Show on March 19, 20 and 21. Our Products Fair poster will be ready for display at that time.

New Business Margie Largent reported that Dean Smith's membership classification has changed from industry to professional. Margie submitted a finished, 20 page Member Service History. This was typed courtesy of the Port of Portland (file #0703S), a copy of which will be added to our permanent records.

McGraw Hill is asking for photos of delegates planning to attend the National CSI Convention in June in Detroit. They will print these pictures in the convention newspaper. Pictures needed by April 10!

Meeting adjourned 1:20 pm. Respectfully submitted, John Barker, Secretary

RESOURCE LIBRARY

ENERGY RESOURCE CENTER - TECHNICAL LIBRARY, 7895 SW Mohawk St., Tualatin, Or. 503/692-9417

As part of the information services of the Energy Resource Center, we welcome you to use our library materials for reference/research and current awareness purposes, says Librarian Bette Stewart.

To answer your questions about:

Products/Manufacturers:

Thomas Register; Sweet's Catalogs; US Industrial Directory; VSMF microfilm collection of over 16,000 manufacturers' catalogs (updates received every 60 days); Directory of Oregon Manufacturers; and more

Standards/Codes:

ICBO, IES, ASHRAE, ARI, NEMA, and selected ANSI, ASTM, NFPA, and SMACNA.

Specific subjects:

Reports (EPRI, DOE); Books; Magazines and trade journals (over 50 titles); Handbooks; IEEE Color books series; Means cost data books; Lee Saylor Estimating, VCR tapes, computer software, CSI - MOP, Spectext, Technical Aid Series, SpecGuide, Monographs & Spec Data.

Energy Resource Center hours are Monday-friday, 8:00-5:00



1987 CSI NW REGION CONFERENCE



"CONSTRUCTION ON THE PACIFIC RIM"

Cook Inlet Chapter CSI - Anchorage, Alaska
September 10, 11, & 12, 1987

In conjunction with its April meeting



*Advancement of
Construction Technology*

The Portland Chapter of the
CONSTRUCTION SPECIFICATION INSTITUTE

presents a seminar on

**CONSTRUCTION
ECONOMICS**

1:30 - 5:30

April 14, 1987

Westin Benson Hotel

SEMINAR PROGRAM SCHEDULE

1:15 Registration

1:30 Introduction

1:50 Project Environment Issues

- Energy Trends

Ham Nguyen / PGE

- Mortgage Financing

Joe Weber / Commonwealth Mortgage

- Real Estate Proforma

Ronald Johnson / Center Realty Services

3:10 Break

3:25 Project Specific Issues

- Loan Criteria

Sheryl Balthazar / 1st Interstate Bank

- Construction Management

Peter Ebert / DM Drake Co.

- Construction Estimating

Max Gerlt / Max Gerlt Building &
Planning

- Construction Cost Control David Rogge / Dept. of Civil Engineering
OSU

5:10 Panel Discussion / Question & Answer

MAIL REGISTRATION AND CHECK TO :

NAME _____

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COMPANY _____

Construction Specification Institute

PROFESSION/BUSINESS _____

1125 S.E. Madison St.

ADDRESS _____

Portland, OR 97214

TELEPHONE _____

Fee \$35 (\$45 after April 10)

includes copy of Seminar Outline

Dinner \$15 (Reservation Required)

Questions : 238-1462

BS by KS Basic Specs by Ken Searl

This month I am going to discuss the CCS and Certificate Programs. First of all I will list how many people are holders of one or the other. I will list the present figures by Chapter as follows:

Chapter	CCS	Cert.
Cook Inlet	15	5
Idaho	1	0
Portland	15	3
Puget Sound	17	1
Spokane	1	0
Willamette Valley	6	1
Total	55	10

Now for those rascals taking the test this year:

Cook Inlet	22	1
Idaho	1	2
Portland	2	5
Puget Sound	3	3
Spokane	4	5
Willamette Valley	0	2
Total	32	18

Now let's do a bit of in-depth study of the above figures. It seems to me that the Cook Inlet Chapter is about to become the top kingpin of the bunch. What is happening with Portland and Puget Sound? It seems these two Chapters don't seem to feel that the CCS and Certificate ratings are as important as Cook Inlet does. If this is the case, is it because up north they don't have much to do in the winter except study to become proficient in one or both categories. Somehow, I doubt that is the case. It could be the people up in Alaska

SEMINAR PLANNED

The Willamette Valley Chapter of CSI is once again sponsoring a one-day seminar June 4, 1987, at the Eugene Conference Center, Eugene, Oregon.

The program this year is entitled "Specification Enforcement - Say what you mean and mean what you say." Panelists representing the legal, architectural, owner, supplier, and general contracting fields will be presenting information and answering questions.

Registration fee of \$45 includes lunch. For registration materials contact: Butch Baird, 2300 Oakmont Way, Eugene, Or. 97401. 503/485-4711.

realize just how important these ratings can become. Either that or they have been out in the snow or up on Stuck Again Heights too long.

In reading various trade magazines one notices many ads for specifiers either ask for a CCS or mention it is preferred. In many places, including Alaska, bonus points are given for a CCS rating. When the CCS program first made the scene, it appeared to me it wouldn't hurt to become a member of this group. I didn't realize just how important this program would become in a short time.

One phase of this program that needs some attention is the Certificate portion. It appears that some good sounding initials are needed that people can put after their name similar to the CCS letters.

Some people are working on this but so far apparently haven't come up with anything suitable. It looks like some revisions are also needed in presenting the Certificate concept to the people who should be most interested. Anyone out there with any suggestions come forth and voice your ideas to the Region Directors. Region Directors always like good ideas.

NOMINATING COMMITTEE

(M. Largent, Chairman
D. Latham, C. Finch, B. Bellwood,
T. Shea)

The Board of Directors at the March meeting directed the Nominating committee to present a slate of candidates of one person only, for each position open, to be presented to the membership at the March 10 dinner meeting.

Nominations "from the floor" will be accepted at the March 10 meeting.

The Leadership Training Session in Seattle on April 10-11 is very important for each new Board member to attend, and we urge all board members and committee heads to make every effort to be there.

Pres. Elect - Inga Vrla
Treasurer - Dennis Obert
Secretary - John Brockamp
Professional Board Member
- Paul Wilson
- Jim Peterson
Industry Board Member
- John Kehrl

LOST

Our resident BS'er had to walk back to his office in the rain without his rain coat last Tuesday evening, (March 10)!

It seems his coat developed "feet" and took off, or so it would appear. After the program Dennet Latham picked up the only remaining coat on the rack (which is similar looking, but much too small for Ken), which Dennet now has in his possession.

If the coat in your car is too big or is a total stranger to you...claim yours and return his...call Ken at 223-1181 or Dennet at 222-1917.

I would like to promise that Ken would "ask no questions" upon the return of this very necessary item of Oregon apparel, but that may be too much to ask of our friend!

CONSTRUCTION INDEX

This year inaugurates a new, long overdue publication for the construction industry - the CONSTRUCTION INDEX, an annotated index to technical articles appearing in 25 journals, including Building Design and Construction, Construction Specifier, Progressive Architecture, Exteriors, Roofing Spec, and many others. Articles will be organized using CSI MASTERFORMAT for easy access to specific technical topics.

The CONSTRUCTION INDEX, published by ArchiText, will be issued quarterly; each fourth quarter issue will be a complete annual compilation. Subscription rates for US subscribers is \$75.00 annually. For more information, contact ArchiText, 410 S. Michigan Ave., Suite 1008, Chicago, IL 60605 (312)939-3202 - Susan Greenwald.

DINNER MEETING March 10, 1987

The March program of the Portland Chapter of CSI was a panel discussion on Computer Aided Design/Drafting, moderated by Arden Newbrook.

The panel was made up of five individuals with varying experience and thoughts on CADD.

Phil Beyl, is with the firm of B.G.B.G. Architects and Interior Design. His architecture degree is from Washington State University.

Oliver Collins is the Senior Marketing Representative for McDonnell Douglas Information Service Group. Mr. Collins has a BA from Univ. of Oregon and has just established an office in the Portland metro area.

Russ Gesner is a registered architect, as well as technical writer and editor. He writes books on Computer Aided Design and Drafting for New Writers.

Mr. Heinz Rudolf of B.O.D.R.A. Architects, the fourth panelist is Director of Production and Quality Control/Technical Innovation for his firm.

The fifth panelist was David Soderstrom, CEO for Soderstrom Architects.

Arden Newbrook opened the session requesting comments from the panel, finally asking for audience participation, which incidentally was quite lively! 57 members and 27 guests were present. When asked how many of the audience had CAD systems, we were surprised at the show of hands, especially among industry attendees. It seems that preparation of shop drawings is a significant application.

Some of the questions discussed were ... How had these people initiated and implemented the use of CAD in their firms? ... How was CAD coordinated with other office activities? ... A design tool or a technical production, i.e., drafting tool? ... A CAD wish list - what did they want the next generation CAD to do?

It seems that CAD to facilitate the design process was useful;



Arden Newbrook, moderator.
Panelists: P. Beyl, O. Collins, R. Gesner, H. Rudolf, D. Soderstrom (l-r)



Henry Fitzgibbon — Dave Soderstrom

however, many of the architects felt obliged to 'heavy in' the computer generated line drawings to get the feel for their ideas. Others seemed to feel that detail drawings are tedious whether they are human or computer generated.

There is concern about the individual who is not computer oriented, the cost of installing computers at all work stations, the loss of expertise if one does not use the equipment all day, every day. Questions that did not have ready answers - but made for a remarkably interesting meeting.

The subject deserves an encore, and we hope to do just that in the near future!



Tom Cole — Russ Gesner

by Perky Kilbourn

LETTER TO THE EDITOR

RIYADH REPORT Feb. 22, 1987

And marhaba (hello) to you KS

And why would any sane people, at our age, decide to go to Saudi Arabia to work? They came after me and it looked like GSA was folding up in Auburn - and it has - so Dauna and I discussed the possibility of a two year hitch in a foreign country in the mid-east. After carefully evaluating the options we arrived at the question of whether there was any reason why we shouldn't go. There being none, we packed a few things, and here we are. Initially it is a two year assignment and we don't need to decide beyond that point till the time arrives, enshalla (if Ala wills it). Look out for buckra enshalla. That means "tomorrow if Ala wills it".

And who in Saudi Arabia would want an old broken down Federal Government specification writer? Naturally another government agency, the SA Ministry of Health (MOH). And to do what? To write construction guide specifications for their hospital construction program. I'm still a US Government employee working for the GSA International Projects Office. I work with the Joint Economic Commission which is run by the US Treasury Dept. and is made up of people from several US agencies. We all have project assignments with various SA Ministries. The SA government reimburses the USA for our services.

Before I arrived in the Kingdom our JECOR project staff and the MOH had decided to start with AIA Masterspec and revise that specification to fit the MOH needs. They had also considered CSI Spectext but that system required filling in blanks where Masterspec was more of a system requiring deletion of unnecessary text. So get busy Mr. Bishop and do your thing!!!

I had stopped at CSI headquarters and picked up the Manual of Practice and an extra Masterformat. I'm proud to claim involvement in creating those documents. Believe me

they are excellent. Particularly Masterformat. It is a Bible for which there is no "OR EQUAL". Some of the Brits, Irish, Australians, Saudis, Scots, Egyptians, etc. try to say it doesn't work in the mid-east. But they can't produce a better document or argue with the facts in Masterformat. It works and in all countries and all languages. I saw a job advertisement in the paper for an estimator and it required them to be familiar with CSI Masterformat. Perhaps we should consider marketing Masterformat worldwide?

Is working in Saudi Arabia difficult? Yes, particularly if you want information and if you speak and write only one language. To compound this difficulty is a cultural shock, eleven hours time difference between the West Coast and SA, and a work week of Saturday thru Wednesday. The language barrier is the worst problem. Even with Saudis and others here who speak English, their English is limited and some-

times we don't communicate. Of course the worst problem is communicating with the English. I'm not sure what they speak.

Each month I look forward to receiving the Predicator and hearing the good news from the USA. Many have told me that spending some time here makes you appreciate our country more. This is not fiction but the absolute truth! We are now making plans for our summer vacation in Washington State for three weeks in July and August.

A fun experience here is negotiating for purchases in the markets. I'll cover that in detail in a later issue. Until next time, masallam (good bye). On location in Riyadh, Saudi Arabia. (signed)

Walt Bishop

ATTENDANCE: 1986 Region Conferences (Nationwide)

	Registrations		Membership Percentage Attendance	Others	Total
	Membership	Members			
1. Northwest	1020	81	7.9%	34	115
2. Gulf States	1283	93	7.2%	40	133
3. Northeast *	2492	138	5.5%	60	198
4. Southwest **	829	44	5.3%	15	59
5. West	2575	134	5.2%	100	234
6. Mid-Atlantic	2211	97	4.3%	51	148
7. Southeast	1894	80	4.2%	40	120
8. Great Lakes	1659	60	3.6%	35	95
9. North Central	2489	85	3.4%	38	123
10. South Central	1678	na	?	na	125

*average of last three

** average

EFFICIENCY OF BUDGET: 1986 Region Conferences (Nationwide)

	Income	Expenses	Profit or Loss	Expense to Income Ratio
1. Great Lakes	6,000	6,000	0	100%
2. West	27,534	26,638	896	102%
3. Northwest	12,364	11,883	481	104%
4. North Central	11,500	10,850	650	106%
5. Northeast	37,100	40,000	(2,900)	92%
6. Gulf States	11,988	10,600	1,388	113%
7. South Central	44,000	36,000	8,000	122%
8. Southeast	38,000	31,000	7,000	122%
9. Mid Atlantic	14,658	18,766	(4,108)	77%
10. Southwest	na	na	na	na

See page 7

REGION DIRECTOR REPORT

This is my report of decisions of Region and Chapter interest made at the Feb. 7-8, 1987 Board of Directors meeting held at Institute headquarters in Alexandria, VA.

Jack Lewis, FCSI, San Diego Chapter, was elected to Honorary Membership. This award is considered to be the most prestigious award of the Institute.

An attractive, organized method of filing past issues of THE SPECIFIER magazine will soon be available for purchase. Binders and slipcase holders will have embossed SPECIFIER and the CSI logo on the edge. You may purchase these from the DC Metropolitan Chapter of CSI. Expected cost is \$6.95 each, \$20 for three, \$36 for six.

Both the Nebraska and Allentown, PA chapters were given permission to sell polo shirts, each with the CSI logo over the left pocket. One shirt is white, the other terra cotta and will be available soon. Cost will be \$10.95 or \$11.95 plus postage for the Nebraska shirt and \$23-\$24-\$25, depending on quantities for the Allentown shirt.

The Indianapolis chapter was given permission to sell yellow gold rings with either white or yellow gold seals, with the yellow seal reserved for Fellows of the Institute. Chapters who wish to honor members for 25 years of continuous service may purchase these rings soon. Cost will vary according to ring size and price of gold at time of purchase.

The age and institute longevity requirement for the MEMBER EMERITUS category was changed from 75 years of age to 70 and from ten years consecutive membership to 15.

The use of the CSI seal (traditional shield), logo and motto was clarified to read as follows: The seal is intended to be reserved for lapel pins and medals.



A proposal to amend the bylaws which pertain to membership numbers when chartering new or dropping existing chapters was defeated. The proposal asked that 30 members (of which 15 were professional) be required for establishing a new chapter and existing chapters dropping below 20 members (of which ten were professional) would lose their charter.

Finally, statistics were given at the meeting which once again reveals that our NW Region is the top region in the entire Institute in yet another category of activity. The following figures show both the attendance and also the financial management figures at Region Conferences this past year. (page 6)

by Dick Gira

DAVE THOMAS NEW INSTITUTE VP

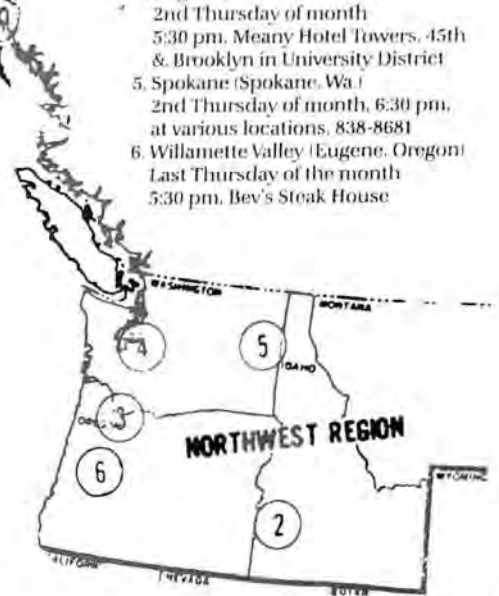
Thank you. Because you cared enough to vote. Because John Greiner emphasized to what an active Region can do, and how important each vote is, I have been elected as Vice President, Industry/Associate, for CSI, for 1987/88. My sincere thanks to all of you.

One key responsibility of an Institute VP is to serve on the National Convention Program Committee. This coming year is of particular importance for two reasons. CSI will celebrate its 40th anniversary. The convention will be held in Washington, DC, and, if we continue our present pace it will have the largest exhibit and the largest attendance ever.

I need your ideas for seminar topics, names of outstanding speakers, your positive and negative reflections on past conventions. It's your convention. Now you have a chance to contribute!

NORTHWEST REGION

1. Cook Inlet, Anchorage, Alaska
3rd Tuesday of month
5:30 pm. Anchorage Int'l. Inn
2. Idaho (Boise Idaho)
1st Tuesday of month
6:30 pm. University Inn
3. Portland (Portland, Oregon)
2nd Tuesday of month
5:30 pm. Westin Benson Hotel
4. Puget Sound (Seattle, Wa.)
2nd Thursday of month
5:30 pm. Meany Hotel Towers, 45th & Brooklyn in University District
5. Spokane (Spokane, Wa.)
2nd Thursday of month, 6:30 pm. at various locations. 838-8681
6. Willamette Valley (Eugene, Oregon)
Last Thursday of the month
5:30 pm. Bev's Steak House



PLAY GOLF

Construction Data First Annual Golf Tournament to be held on Friday, June 19, 1987 at

LEWIS RIVER GOLF COURSE, 3209 Lewis River Road, Woodland, WA.

Golf - Lunch - Refreshments - Cost: \$30.00 Tee times will be reserved starting May 1st. Call Jane Sampier for information at 503/241-1954

SCHEDULE—PORTLAND CHAPTER CSI

Board of Directors—1st Tues. each month
Dinner Meeting—2nd Tues. each month

The Portland Chapter CSI newsletter The Predicator is mailed at no charge to CSI members once a month. Additional copies are mailed to selected firms and organizations. Circulation is 900 copies.

Deadline for newsletter contributions—3rd Mon. each month.

The Predicator is mailed the last day of each month.

Advertising Policy:

1 full page insert	
CSI member	\$125.00
Non-CSI member	\$150.00
2 full page insert	
CSI member	\$175.00
Non-CSI member	\$200.00

The Predicator is published 11 times a year.

PORTLAND CHAPTER LEADERS, 1986-1987

President, Dennet Latham	222-1917
President-elect, Curtis Finch	636-9270
Secretary, John Barker	231-9118
Treasurer, Dennis Obert	245-7802
1985-1986 President, Margie Largent	636-6977

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Products Fair: Joe Woods	232-4000
Programs: Curt Finch	636-9270
Publicity: Joe Woods	232-4000
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REGION RESPONSIBILITIES for Portland Chapter Members

Institute Specification Competition Committee,	
Lee Kilbourn	224-3860
Technical Documents Committee,	
Robert Klas	644-4222
CSI Appointee to Amer. Arbitration Assn. Regional Construction Advisory Committee, Wm. Merritt	248-0343
CCS/Certificate Chairman, Ken Searl	223-1181

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John Greiner	(206) 455-5236
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CSI'S 31ST ANNUAL CONVENTION/EXHIBIT

DETROIT MICHIGAN
JUNE 26-28, 1987



MAKE YOUR PLANS NOW.

Institute and Portland Chapter Dues for the year are as follows: Institute \$110.00, Portland Chapter \$20.00. Total investment is \$130.00. Please send your check for \$130.00 payable to the Construction Specifications Institute to John Brockamp, at the CSI offices, 1125 SE Madison, Suite 200, Portland, Or. 97214.

The Predicator

Editor, Inga Vrla
1125 S.E. Madison, #200
Portland, OR 97214

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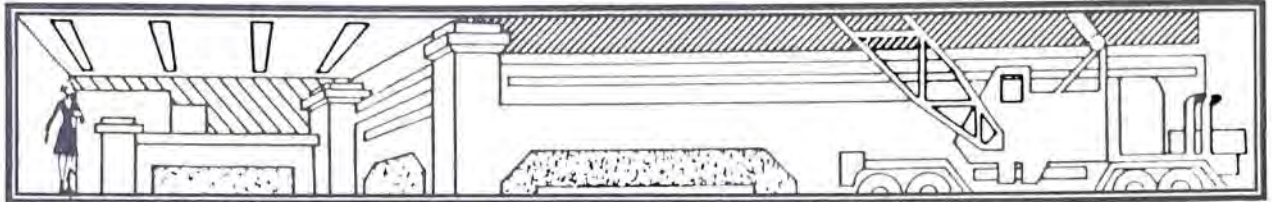
THE PREDICATOR

Advancement of
Construction Technology

Construction Specifications Institute Portland Chapter
1125 SE Madison, Rm 200 Portland, OR 97214 238-1462

Vol. 26 No. 10

May 1987



CSI PRODUCTS FAIR '87 - "WORKING DRAWINGS" May 21, 1987 at Montgomery Park



The President's Column by Dennet Latham

This year there has been an increased interest in CSI to discuss the subject of specifications enforcement. The Willamette Valley Chapter of CSI is sponsoring a seminar June 4 on the enforcement topic at the Hilton Hotel in Eugene. For information contact Butch Baird at 503/485-4711.

A couple of months ago I mentioned that if a specification is going to be enforced that it must first be enforceable. The CSI Manual of Practice states that the key to an enforceable specification is to make the document **Clear, Correct, Complete and Concise**. To produce a Clear, Complete and Concise document, the specifications writer must have well developed written communication skills and a concern for disciplined coordination of specifications and drawings.

Program — May 21, 1987

PROGRAM Featured speaker at the May dinner meeting of the Portland Chapter CSI, held in conjunction with the 13th annual Products Fair is Weld Coxé of Coxé Group Management Consultants, Philadelphia, PA.

Mr. Coxé will discuss the future of the architectural practice.

Seating is limited so reserve your place today! Call the CSI offices at 503-238-1462.

Where: Montgomery Park
Time: 7:00 pm

Menu: Buffet

Roast Baron of Beef
Seafood Kabob

Salads, veggies,
rolls, assorted
truffles for desert,
and wine is included
in the cost.

Cost: \$15.00 per person.

RSVP: NOW! 503-238-1462

To be a Correct document the specification has to include accurate information about construction materials and methods required for the project.

One source of accurate and up-to-date construction material information is obtained from the product manufacturer's representatives. The CSI Products Fair at Montgomery Park on Thursday, May 21, 1987 offers the Portland design community the opportunity to meet with over one hundred construction material manufacturer's representatives in one location. Being able to see many products in one afternoon saves you the time of scheduling in-house meetings with individual manufacturer's representatives and, provides a very quick overview of new products on the market.

Continued on Page 2

13th Annual Products Fair Portland Chapter CSI

Final planning is underway leading to the 13th annual Portland Chapter CSI Products Fair, to be held at Montgomery Park, Portland's just completed trade center, Thursday, May 21, 11:00 am - 6:30 pm.

Close to 150 exhibitors will take part in the one-day show. Over 1,000 design professionals attended last year's Products Fair. This year's chairperson, Joe Woods, is predicting an even larger turnout this year.

The major design-related associations have endorsed the show, and the local chapter of AIA is sponsoring a morning seminar the same day of the Products Fair, featuring design consultant Weld Coxé.

Continued on Page 3

Board of Directors Meeting, April 7, 1987

Present: Latham, Barker, Josi, Finch, Townsend, Largent, Brockamp.

Absent: Daniels

The meeting was called to order at 12:10 pm. Minutes were read and approved.

Treasurer's Report No report was given as Dennis Obert had an excused absence.

Programs Finch has the May and June program under control. Fierce lobbying continues for dinner out at the "lion's den" and into the Zoo Train and Japanese Garden.

Technical Documents A letter from the CSI national office states they want the three

SpecGuides we are writing ASAP or they will be reassigned. The chapter has actually already sent in one. The other two will follow shortly.

Education Peterson has organized an excellent seminar of construction financing for next Tuesday afternoon, before the chapter meeting. 1000 fliers have been sent. Program participants have met and submitted outlines.

Long Range Planning Review and couting of the draft continues, though some doubt as to exactly where. Roy Josi will follow up with Ehmann.

Library The library received an Urban Library Assn. grant of \$2800 to index the new Construction Library. A dedication is planned in September. This may be a good time for a joint meeting with other organizations that sponsored the library. The AIA needs a representative to the committee. Brockamp will remind Farr, AIA president and Barker will

bring it up at the next AIA Board meeting.

Products Fair Townsend reports 97 booths sold. The board would like Joe Woods at the May meeting for a final update before the show.

Membership Stands at 270.

Awards The Predicator did not receive a national award this year. Jolie has relinquished chairmanship of Awards Committee. Tom Shea will take over.

Nominations After lengthy discussion about proper ballot procedure, it was decided to distribute printed ballots at the upcoming chapter meeting as prescribed. Though the slate has only one candidate per position, this will allow for write-ins and conform to the procedure outlined in the bylaws.

Leadership Conference A number of our members will be attending.

Meeting adjourned at 1:00 pm. Respectfully submitted by John Barker, Secretary

Chapter 37 Revision Section 3707(g) Dept. of Commerce Building Codes Division to: Oregon Building Officials

A temporary rule has been filed which suspends the high-temperature requirement for factory-built fireplaces. The temporary rule will be in effect a maximum of 180 days.

This action is taken based on a recommendation from the Structural Code Advisory Board. The code language will be reviewed, a public hearing will be held on any proposed code change, and a decision will be made as to what should be required.

DAR 814-26-005
Oregon Structural Specialty Code

Sec.3705 Factory-built chimneys shall be installed with strict accordance with the terms of their listings and manufacturer's instructions as specified in the Mechanical Code.

Factory-built chimneys for wood burning appliances shall comply with UL Standard No. 103-HT or ULC Standard No. 629M-81 in addition to the requirements of this section.

EXCEPTION: Factory-built fireplaces shall comply with UL Standard No. 127 or ULC Standard No. 610-M1983.

Sec. 3707(g) Chimneys. Chimneys for fireplaces shall be constructed as specified in Sections 3703, [and] 3704 and 3705 for residential-type fireplaces. [Approved factory-built chimneys may be used in strict accordance with their listing and, if attached to a factory-built fireplace, the fireplace's listing.

Effective Jan. 1, 1987, chimneys of wood-burning fireplaces shall comply with UL Standard No. 103-HT or ULC Standard No. 610-M1983, in addition to the requirements of this section.]

Sec. 912. (a) Factory-built chimneys. Factory-built chimneys shall comply with the Structural Specialty Code and shall be installed in accordance with the terms of their listing, the manufacturer's installation instructions and the applicable requirements of this code. Factory-built chimneys shall terminate as required for unlisted single-wall metal chimneys in table No. 9-C.

EXCEPTION: Factory-built chimneys for residential-type appliances and fireplaces may terminate 2 feet above the roof opening and 2 feet above any point of the building within 10 feet.

[Factory-built chimneys shall comply with UL Standard No. 103-HT or ULC Standard No. 629M-81 in addition to the requirements of this section.]

Continued from Page 1

The advantage of the Portland Products Fair over shows at national conventions is manufacturers are represented by local personnel; persons you will deal with on a regular basis during a project. The fair provides the opportunity to meet these representatives directly, face to face.

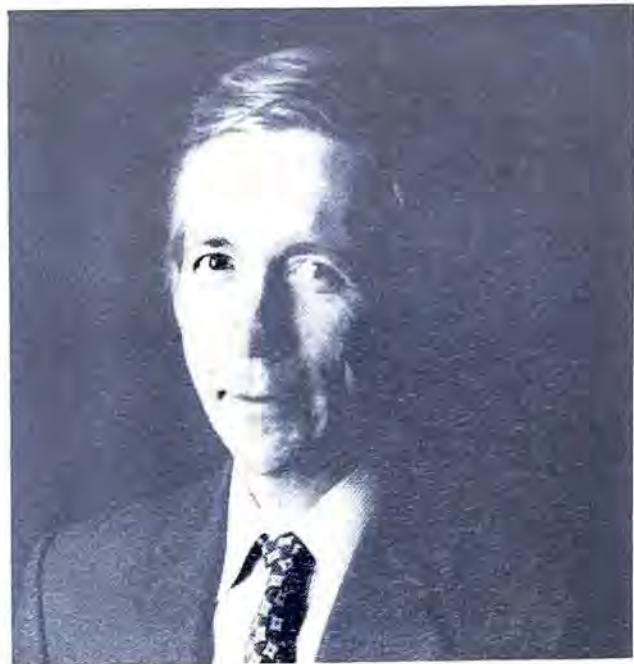
Attending the Products Fair can provide an effective means of helping you write more complete and accurate specifications; an important part of preparing enforceable documents.

Dennet Latham

Continued from Page 1

"A big plus this year," said Woods, "is the unveiling of the just-completed Montgomery Park, a \$30 million conversion of the old Montgomery Ward catalog store into a major regional trade center. The CSI Products Fair will be the first major trade show in the building, which features an eight story atrium and thousands of free parking spaces," he said. "People keep asking me if we'll have heat this year. Last year, the building renovation was just getting underway. It was like having a trade show on a construction site. It was kind of fun, but this year will be a different experience entirely."

NOTE: Call to reserve a place for dinner on Thursday night. Seating is limited. Dinner tickets will be available to pick up at the Products Fair entrance desk.



Weld Coxe, Coxe Group Management Consultants

Weld Coxe to be Products Fair Seminar Leader

A high-powered seminar presented by a nationally renowned design consultant will highlight the 13th annual Construction Specifications Institute (CSI) Products Fair, slated for Thursday, May 21 at the just completed Montgomery Park trade center in Portland.

Weld Coxe, principal of Coxe Group Management Consultants, Philadelphia, will lead a 3 hour morning seminar preceeding the opening of the Products Fair exhibit hall at 11:00 am. His eagerly awaited Portland appearance coincides with the release of his latest book, "Success Strategy for Design Professionals", which provides complete game plans for building a profitable architectural or engineering practice.

The Portland Chapter of The American Institute of Architects (AIA) is sponsoring the Weld Coxe seminar. According to Jody Proppe, executive director of Portland AIA, attendees are expected from throughout the Northwest! "The level of excitement for this seminar is incredibly high," said Proppe. Those familiar with Coxe (his firm consults several major firms in the Northwest and he has made infrequent appearances here over the years) call him a "guru" of the design community.

Cheri Hathaway, president of the Portland Chapter of the Society for Marketing Professional Services (SMPS) is delighted that Coxe is planning a Portland seminar. "I saw him in Seattle last year and was impressed by the usable information he imparted and his charismatic delivery," she said. SMPS will sponsor an evening reception for Coxe on May 20, also at Montgomery Park.

The Portland Chapter AIA (503) 223-8757 is handling registration for the seminar, which costs \$35 per person. Proppe said the cost is being held down in order that more people might have the opportunity to attend. "Most seminars of this nature would cost twice as much", she said. "We think it is very important that everyone in the design community has a chance to attend. We've made the cost reasonable enough to achieve that."

Following the seminar, attendees will be invited to attend the CSI Products Fair, which will be in full swing in the adjacent exhibit hall. Close to 150 exhibitors from the region will be displaying the latest in building materials, systems and services.



Joe Woods, CSI Products Fair Chairman, presenting Show Poster to Jody Proppe, Executive Director of Portland Chapter AIA

Dinner Meeting April 14, 1987

AMERICA DISCOVERS COLUMBUS

Region Director Dick Gira was the featured speaker at the April meeting of the Portland Chapter of CSI.

The City of Columbus, Indiana has the greatest number of buildings per square mile designed by America's leading contemporary architects. Gira explained that this pattern got started in 1939 when a man by the name of J. Irwin Miller chose the architect Eliel Saarinen to design the new building for the First Christian Church in Columbus.

In the 50's after the end of World War II, this same J. Irwin Miller was the Chairman of the Board of Cummins Engine Co. and was concerned about attracting young executives and engineers to Columbus. Mr. Miller and Cummins Engine Co. hit upon an unique idea; Cummins would pay the architectural fee for any public structure which was designed by a distinguished architect. Mr. Miller, who attended Yale University with Eero Saarinen in the 1930's, then hired Sarrinen to design the central office of the Irwin Union Bank and Trust Co. Prior to this time, banks usually looked like fortresses, all brick with very few windows. This new bank became one of the first in the country with all glass walls and an atrium-like interior.

Mr. Miller then approached the Columbus School Board with the idea that Cummins would pay the architectural fee if the School Board would choose from a list of specified architects, submitted by three distinguished architects - originally Eliel Saarinen, Doug Haskell and Pietro Belluschi. Each architect is required to work within the total budget agreed upon by the School Board. Each architect must be given at least 12 months to plan, design and prepare working drawings. The School Board and the architect chosen are to execute a standard AIA contract form. The maximum base architectural fee paid by the Cummins Engine Foundation Architectural Program is determined by a sliding scale established by the AIA.

Gira then showed us some slides of articles written on Columbus, as well as pictures of actual buildings in Columbus.

I was impressed, the buildings were beautiful yet functional, with both interior and exterior photos being shown. I could see why there was little if any vandalism - children and young adults can recognize and respect buildings which are structures of beauty.

Some of the architects represented in the Columbus scene are the Architects Collaborative, Inc., SOM, Kevin Roche, I. M. Pei, Eliot Noyes, Harry Weese, John Carl Warnecke, and many, many more.

A trip to Columbus would be an architectural treat!

Perky Kilbourn



They don't believe you, Ed!



More BS by KS?



Rapt attention?

BS by KS Basic Specs by Ken Searl

As some of you know my BS column is published in the Oregon Edition of Construction Data. You will no doubt note in the accompanying photo I am standing with my back to a brick wall. Believe me some days I have the feeling I really am backed up against a brick wall with no place to go, but what the heck it usually passes and I go back to snorting and growling.

Recently I was talking to some local factory roofing reps and one of their main concerns is educating architects, contractors and owners on what is available in roofing systems besides the so called good old fashioned built up roofing system (BUR). First they find many specs call for BUR systems when it is apparent that a single ply system would do a much better job and at nearly the same overall cost. Why is this you ask. Part of it falls under the heading of this is the way they have always done it and either they don't know about any other system or don't care. In some cases there is a great reluctance to try any new or different products.

In Oregon BUR isn't really a roofing system that fits in with our weather during the application period. Very seldom do we get weather that lasts long enough to do a good job of installing BUR. I have yet to see BUR stored on a project and protected properly until all of it has been installed. As you know any moisture trapped in the roofing felts will usually come back to haunt one in the form of blisters, rips and splits (sort of sounds like a cheap suit that fits too tight).

If after all this dissertation you still feel BUR is the way you must go, do consider different types of base flashing such as modified bitumen and then specifying running it up and over and down part way on the other side of the parapet wall.

For those of you that are thinking about roofing systems do give some thought to various types of single ply systems. Give it lots of thought and investigation. Keep in mind that the installer is as important, if not more so than the system. Without a good installer many systems including BUR can and do fail all too soon.

It seems to me that one of the most talked about items in recent months has been enforcement of specifications or rather the lack of enforcement. The old saying, "Say

what you mean and mean what you say," is a very good guide to follow. If you specify one or more products and then someone comes in during construction with another product and you don't do anything about it I advise you to be careful. One of these days it may come to pass that you can be sued for not enforcing your own specifications. One thing that I haven't heard much discussion about is sometimes a specifier leaves out an apparent suitable product from the specifications solely because it is strongly felt there is no one in the area that can install it properly. Due to this fact certain products are considered not equal in the overall application. There have been times when I have listed a certain product with the qualification that it be installed only by a certain firm or firms.

There are certain governmental agencies that do not allow pre-bid substitutions and allow only after-bid substitutions if they are considered to be suitable and equal. This all sounds fine but it can cause bidders to bid on products not specified with the hope of getting an acceptance later. In my opinion I get a feeling there may be a bunch of wheeling and dealing and possible bid peddling involved with this method. It certainly doesn't take into consideration whether or not the product is suitable both in manufacturer's quality and the installer's ability.

I believe in the future we will be hearing much more about enforcement of specifications. It seems to me it is largely in the architects' and specifiers' court at the moment.

New "General Conditions" to be Released Soon

A new "Short Language" version of the General Conditions for Construction is currently being reviewed by the AGC. The new "Short Language" version was scheduled to be released in January, but has not yet received the necessary endorsement by the AGC it would need to become a "standard" form in the construction industry. The following is the new "Short Language" version of the General Conditions in its entirety:

"Solar 87" Conference Scheduled

An interdisciplinary solar technologies conference sponsored by the American Solar Energy Society and the Solar Energy Society of Canada is sponsoring a conference on July 11-16, 1987 at the Portland Hilton Hotel.

Co-sponsors of the conference include the Bonneville Power Administration, the Canadian Ministry of Energy, Mines and Resources, the Electric Power Research Institute, the Oregon Dept. of Energy, and the Solar Energy Research Institute.

In addition to four days of technical sessions, the Solar Energy Assn. of Oregon will sponsor a series of in-depth workshops for architects and designers, engineers and solar professionals.

Commercial buildings are the focus of several workshops. Two of these examine award winning commercial building designs from the Energy Edge design competition sponsored by the Bonneville Power Adm.

Daylighting is the subject of two workshops, featuring presentations by four leading researchers including Fuller Moore of Miami University and Donald Aitken of San Jose State. "Microcomputer Daylighting Design Tools" offers participants the opportunity to experiment with several software programs. The Illuminating Engineers Society, Oregon Chapter, will co-sponsor the software workshop.

Baruch Givoni, Professor of Architecture at UCLA, and John Reynolds, Assoc. Professor of Architecture at the University of Oregon, will lead a workshop on "Passive Cooling of Buildings."

To receive a brochure and registration form for the conference, workshops and tours, write or call ASE at 2030 17th Street, Boulder, CO 80302, (303) 443-3130. The pre-registration deadline is June 12, 1987.

Continued on Page 6

Continued from Page 5

General Conditions of the Contract for Construction. (Short Language Version)

1. The work we want did is clearly showed on the attached plans and specifications. Our designer, whose had plenty of college, spent one hell of alot of time when he drewed up these here plans and specifications. But nobody cannot think of every thing! Once your bid is in, that's it brother! From then on, anything wanted by our designer, or any of his friends, or anybody else (except the contractor), shall be considered as showed, specified, or implied and shall be provided by the contractor without no expense to nobody but himself (meaning the contractor).

2. If the work is did without no extra expense to the contractor, then the work will be took down and did over again until the extra expense to the contractor is satisfactory to our designer.

3. Our designer's plans is right as drawn. If sumthin is drawn wrong, it shall be discovered by the contractors, corrected and did right with no extra expense to us. It won't cut no ice with us or our designer if you point out any mistakes our designer has drawn. If you do, it will be one hell of a long time before you do any more work for us or him (meaning the designer).

4. The contractor is not suppose to make fun of our designer, his plans, or the kind of work we're having done. If he do, it's just too bad for him (meaning the contractor).

5. Any contractor walking around the job with a smile on his face is subject to the review of his bid.

6. If the contractor don't find all our designer's mistakes before he bids his job, or if the contractor ain't got enough sense to know our designer's goin to think up a bunch of new stuff that's goin to have to be did before the job is completely did, then it's just too bad for him (meaning the contractor).

1987 CSI NW REGION CONFERENCE



"CONSTRUCTION ON THE PACIFIC RIM"

Anchorage, Alaska Sept. 10-12, 1987

The Pacific Northwest and Alaska are situated in the prime location of the United States to develop and profit from international trade with nations on the Pacific Rim. We will study this opportunity and its impact on the construction industry. Topics to be covered will be:

- What are the opportunities for the construction industry?
- How can your firm expand into these markets?
- What are the pitfalls to be aware of?
- What new construction techniques can we learn?

Speakers will include a west coast port official, a major import/export firm, a company with design and/or construction experience in Pacific regions, and a U.S. government foreign trade expert.

Clarion Hotel Anchorage

Poised on the edge of Lake Spenard, the Clarion is located on one of the world's busiest seaplane bases. The hotel's beautiful lakeside location is a welcome alternative to downtown. Besides sensational views, the Clarion offers exceptional access: just ten minutes to downtown and one mile to Anchorage International Airport.

Right outside the hotel's front door is the Clarion's own float plane dock. Summer and winter, these planes are your passport to northern adventure, be that a fishing expedition to a remote wilderness stream or "flightseeing" over the Alaskan fjords.

Exercise opportunities at the hotel abound. A fully-equipped health club and spa provide conditioning machines and exercise bicycles plus a sauna, whirlpool, and steam bath. Outdoor jogging and biking are made more pleasant by a paved trail running along the shoreline.

Other special features of the hotel greatly appreciated by guests include complimentary 24-hour airport and downtown shuttle, tour booking services, round-the-clock room service, auto and bicycle rentals, and free parking.

Registration materials to follow at a later date. For additional information, contact Mr. Tom Carberry at (907) 349-6611.

Hosted by Cook Inlet Chapter

detach here and return

RSVP

Three empty checkboxes for RSVP response.

Start planning now to take advantage of this opportunity!

I will be attending with ___ guests.

I hope to attend with ___ guests.

I will not be attending.

Name: _____

Address: _____

City/State: _____ Zip: _____

CSI Chapter: _____

7. The contractor gotta use all GOOD stuff on this job and none of this junk from Japan.

(Boston CSI Newsletter, The Boston Parameter 3/87). Makes one wonder about their sense of humor?...or mine? Ed.

Leadership Conference, April 10-11, 1987


Portland Chapter members who attended all or part of the Leadership Conference in Seattle on April 10-11, 1987 were Dennet Latham and Curt Finch, voting delegates, Ken Searl (Region Editor), Dick Gira, Director Northwest Region, Bob Klas, Technical Committee Chairman, John Brockamp, Jim Peterson, Margie Largent.

There were 42 people in attendance on Friday April 10.



NORTHWEST REGION

1. Cook Inlet, Anchorage, Alaska
3rd Tuesday of month
5:30 pm, Anchorage Int'l Inn
2. Idaho (Boise Idaho)
1st Tuesday of month
6:30 pm, University Inn
3. Portland (Portland, Oregon)
2nd Tuesday of month
5:30 pm, Westin Benson Hotel
4. Puget Sound (Seattle, Wa.)
2nd Thursday of month
5:30 pm, Meany Hotel Towers, 45th & Brooklyn in University District
5. Spokane (Spokane, Wa.)
2nd Thursday of month, 6:30 pm.
at various locations, 838-8681
6. Willamette Valley (Eugene, Oregon)
Last Thursday of the month
5:30 pm, Bev's Steak House

A Seminar Sponsored by the Willamette Valley Chapter
Construction Specifications Institute 

Construction Specification/Specification Enforcement "Say what you mean and mean what you say"



PANELISTS

Moderator
Jim Robertson - Architect

Phil Cass - Attorney
Bob Fritsch - Owners' Representative
Lee Seely - Supplier

Bob Easton - Field Enforcement
John Brockamp - Contractor
Ken Searl - Specifier

Date: Thursday, June 4, 1987	Place: Eugene Hilton 66 E. 6th Avenue Eugene, OR 97401	Call for additional information: Butch Baird (503) 485-4711
Time: Registration 8:00 a.m. Opening Remarks 9:00 a.m. Lunch 12:00 p.m. Close 4:30 p.m.	Registration includes Seminar notebook and lunch. Space is limited, so register today.	

Thank You!

Thank you to Designed Space Systems, whose insert is in this issue of The Predicator. See them at Booth #68 and,

PRC Permapol RC Sealants, who also have an insert in this issue. Your support is appreciated! See Permapol at Booth #79.

SCHEDULE—PORTLAND CHAPTER CSI

Board of Directors—1st Tues. each month
Dinner Meeting—2nd Tues. each month

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Deadline for newsletter contributions—3rd Mon. each month.

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1 full page insert	
CSI member	\$125.00
Non-CSI member	\$150.00
2 full page insert	
CSI member	\$175.00
Non-CSI member	\$200.00

The Predicator is published 11 times a year.

Name _____ Firm _____

Bus Address _____ Bus Phone _____

Fee enclosed: (please circle)	Early Registration (prior to May 15) \$45.00	Late Registration (after May 15) \$55.00	Student	total
			\$10.00	\$ _____

Please indicate topics or questions you wish the seminar to address _____

REGISTRATION

Return this card with check to CSI Seminar:
2300 Desmont Way, Suite 214, Eugene, Oregon 97401
Please photocopy this application for others who may wish to attend.

Wish O&E Continuing Ed Units (Fee)
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Secretary: John Barker	231-9118
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! RSVP: DINNER MEETING—238-1462 !



THE PREDICATOR

Advancement of
Construction Technology

Construction Specifications Institute Portland Chapter
1125 SE Madison, Rm 200 Portland, OR 97214 238-1462

Vol. 26 No. 11

June 1987



The President's Column by Dennet Latham

During the Products Fair I had the opportunity to be at the CSI booth for a couple of hours. This developed into one of the most enjoyable tasks I had during this year as the Portland Chapter president. It was enjoyable not only from having the chance to meet many new faces but also to have the opportunity to hear a variety of interests and needs of the attendees.

Most people were interested in finding out about the services, publications and programs of CSI and, what are the advantages of becoming a member. One person was looking for the proper Division and Section in the Masterformat for specifying a new product. A construction field representative of a large organization was interested in finding out how their organization could develop more standard specifications so that different contractors working on related contracts would be dealing with the same materials. Some people just wanted to find out what are construction specifications!

Whatever the interest or inquiry, the experience of listening to everyone reminded me of the importance of CSI, why I originally joined and why I intend to continue to participate in CSI in the future. CSI is and will continue to be an essential part of the construction industry. Having the opportunity to meet and talk with persons from every construction industry discipline provides an excellent way to develop your own knowledge while learning about the

JUNE 9th FUN NIGHT - PORTLAND ZOO

OUTDOORS UNDER THE CANOPIES

BY THE BEARWALK



"PORTLAND ZOO" (free admission)

"Outdoors under the canopies by the bearwalk"



No host bar: 5:30-6:15 (beer and wine)

Buffet dinner: 6:15-7:30 Awards presentation during dinner.

Zoo Tour - 7:30-8:30 by Bob Porter, Construction Manager at the Zoo.

Menu: Grilled Chicken
Bar-B-Que Ribs
Potato Salad
Green Salad
Baked Beans
Ice Cream
Iced tea/lemonade

Cost: \$10.25 per person
RSVP: CSI Offices 238-1462



skills of others. It provides a way to understand how your skills can interrelate with those of other CSI members. Most importantly, the interaction can help you realize the success of every construction project is a function of strong cooperation among all the disciplines, not just the skills of one discipline.

The challenge of CSI is to strive to improve the communication and cooperation between disciplines. I look forward to the continuing debate and encourage everyone interested in improving the construction industry to join in the conversation.
by Dennet Latham

Vertical handwritten text on the right margin, possibly a signature or initials.

Dinner Meeting at Products Fair
by Perky Kilbourn

Weld Coxe, the keynote speaker at the Portland Chapter CSI Products Fair, spoke on the topic THE FUTURE OF THE ARCHITECTURAL PRACTICE. He chose to do his presentation by giving details of a day (May 21, 1997) in the life of an architect in Portland, Oregon.

At first I thought Coxe was being "tongue in cheek", and then I realized that he really did understand how the profession of architecture was changing due to the advent of computers.

Coxe's hypothetical architect (Wilson Temple) did several things during the day which are now or will be technically possible in the near future.

7am - Architect Temple is reading The Oregonian and notes that firms can compete for jobs on the basis of their capability for design, i.e., the qualifications of their team. Also, the three short listed firms are being paid for their presentations.

8am - Temple heads for a jobsite in a programmed car which gets on the equivalent of "light rail" and goes at an automatic-positioned and constant speed to an exit where he drives to the site manually. Since the driving is done automatically, Temple can get reading and other things done while commuting, but unlike mass transportation now available, his car is going with him so he has it at his destination.

9am - Temple is at a "direct build project" where a discrepancy has occurred that was not caught by the computer. Coxe gave an example of whether the duct went above or below the ceiling.

10am - Temple gets to the office and talks to his partner, Allison Plaza, who has just returned from a sabbatical in Greece. Sabbaticals are standard for academia and may be more frequent in the work place because it is now recognized that people need to be renewed and rejuvenated about every 7 years, (every two would be fine with me. ed.).

11am - It is time to interview two job candidates and there is a discussion of compensation. Coxe seems to feel that architects are going to be better paid in the future because they are "communication experts".

1pm - Temple works on a project in which he is taking Design Development straight to Working Drawings, Specifications, Estimating and Product Selection by use of a Master Document Program. The information from Design Development goes to a Dodge Plan Room where a contractor can get this information onto his "diskette" and input to his computer. The Contractor's computer will be able to interphase with his sub-contractor's computers, which in turn will interphase with their suppliers.

2pm - Temple talks to his engineer on a Video-net, discussing details which are shown on the video, with both parties knowing they are talking about the same detail.

4pm - Temple leaves his 5th floor office at Montgomery Park to visit the Products Fair. At various booths

he receives diskettes with product information.

5pm - A roofing manufacturer has a program called "Safety Net" which checks for other materials that have been specified elsewhere in the project specs which may cause problems with the particular roofing material. The diskette also identifies the sections that may need to be modified if the product is used.

6pm - Temple has dinner at the Product's Fair and afterwards listens to a presentation by Joe Woods as he looks back over the past 10 years, and the many changes and progress that has occurred.

Coxe then opened the meeting for questions. All in all, a very well done presentation to a comfortably filled room.



CONSTRUCTION INDUSTRY AFFAIRS COMMITTEE
of Oregon
American Institute of Architects
Oregon Council and Portland Chapter
Associated General Contractors,
Oregon-Columbia Chapter
Consulting Engineers Council of Oregon
Construction Specifications Institute,
Portland Chapter

CIAC is a task force subcommittee of the joint cooperative committee of AGC/AIA/CECO/CSI. The joint committee's mission is to provide "A forum for construction industry and related organizations to explore issues of mutual concern and to offer guidelines to construction industry users."

CIAC PURPOSE: Enhance liaison among members of the construction community to promote continued teamwork and cooperation.

CIAC OBJECTIVES: Identify and publish guidelines for functions, duties, and expected performance levels of those involved in the construction process.

CIAC FUNCTIONS: The committee drafts and edits guidelines for inclusion in a notebook which will be added to and updated. This work is ongoing and all are encouraged to participate.

CHANGE ORDER PROCEDURES

Introduction

Due to both the complexity of modern construction projects and the need to produce economical contract documents, the construction industry has developed standard procedures to accommodate changes in the scope of the construction contract. These changes typically involve materials, equipment, constructibility, and other modifications of the project. The result is often a corresponding adjustment of the timeframe and cost of the contract.

This guideline outlines the procedures for requesting and authorizing a change to the construction contract. In addition, the roles and responsibilities of the participants in the process are explained. Failure to follow a disciplined change order procedure has the potential to cause delays and disputes that can result in claims and possible litigation.

The Procedures

The procedures to handle changes to the construction contract should be clearly described in the project documents and steps should be taken to ensure that members of the project team understand their roles and responsibilities. These procedures need to include:

- 0 The forms to be used
- 0 The pricing and scheduling format requirements
- 0 The types of change orders that are acceptable
- 0 Who has the authority to request and approve changes
- 0 A procedure for resolving disagreements
- 0 An explicit timeframe for processing and response

The Types of Change Orders

There are several types of change orders that differ primarily with respect to their urgency or the extent of their scope. Regardless of the urgency or extent, all changes in the contract need to be documented and reported on a regular basis. Change orders fall into the following general categories:

- 0 The lump sum change order which involves a substantive modification of the contract and is submitted with adequate leadtime to enable a thorough investigation prior to commitment.
- 0 The time and material change order which addresses substantive modification of indeterminate extent or inadequate investigation time.
- 0 The emergency field order which allows decisions to be made immediately so that work may proceed without interruption while cost and other implications are resolved at a later date.
- 0 The recorded minor change which documents those small or insignificant changes that involve no cost or schedule impact.

In all cases, the purpose in documenting the changes is to avoid misunderstandings at a later time when decisions are being reviewed.

A change order which adequately anticipates a potential modification of the contract (allowing enough time for thorough investigation) should include:

- 0 The exact number and type of material items to be added, deleted, or substituted, and the locations of this material in the structure.
- 0 Supplementary or revised drawings, or authorization for the preparation of drawings, if necessary.
- 0 The time span for making the change, and a specific authorization for overtime or time extensions, if needed.
- 0 The amount of supplementary work to be performed.
- 0 The level of pricing detail required.
- 0 The timeframe for the decision to proceed with the modification.

Roles and Responsibilities of the Participants

The Owner is involved in three possible situations:

(1) Upon discovering a potential change in the project, the owner works with the architect/engineer to develop the necessary documentation that allows the contractor to price the change; then the owner and the architect/engineer review the proposal submitted by the contractor and make the decision to proceed or not.

(2) The architect/engineer discovers a potential change which is brought to the attention of the owner and, if agreed, the contractor submits a proposal which is reviewed and accepted or rejected.

(3) The contractor submits a request to the architect/engineer which is reviewed with the owner and decided.

In addition to the scenarios outlined for involvement with the owner, the architect/engineer may be authorized

to review and authorize certain kinds of changes directly without the involvement of the owner. These may include:

- o Clarification of the documents.
- o Minor changes without substantial cost impact.
- o Emergency changes when time is severely constrained.
- o Other decisions as requested by the owner.

The contractor often discovers situations in building the project where the documents do not adequately anticipate the constructibility of the building. The contractor calls this to the attention of the architect/engineer and a resolution is generated and priced for approval by the owner.

HANDLING BID IRREGULARITIES

This guide is intended to establish a better understanding between the owner, architect/engineer, and contractors in the event of an irregularity in the bid process. The integrity of the competitive bid process and the interests of all concerned will be served by adhering to these guidelines.

The guidelines distinguish minor irregularities which may be waived (at the owner's discretion) from substantial irregularities which require rejection of that bidder's proposal.

Substantial Bidding Irregularities Requiring Rejection of Bid

- (1) Bid proposals not submitted on specified forms, or altered in form by a bidder.
- (2) Unsigned bid proposals.
- (3) Bid proposals not accompanied by the specified guarantee (bid bond, etc.) for a bidding entity.
- (4) Bid proposals by non-qualified entities where prequalification was specified.
- (5) Conditioning of a bid or bid items in a bid proposal contrary to the specified requirements of bid items or bidding documents.
- (6) Bid proposals which have items omitted by the bidder. An exception: "No Bid" on an alternate should not disqualify a bid unless that alternate is pertinent in determining who will be low.
- (7) Post bid, monetary modifications of bid proposals due to provable mistakes of fact.
- (8) Post bid refusal to submit to specified bidding requirements, such as MBE, Wages, EEO, Non-Collusion, or Subcontractor Listing.
- (9) Altering a bid as to specified time of commencement or completion of work.
- (10) Bid proposals not received prior to the specified deadline.

Minor Bidding Irregularities That May Be Waived:

- (1) Omissions of date when signed, or title of person signing.
- (2) Failure to initial erasures (assuming other information is legible).
- (3) Failure to acknowledge an addendum which does not affect quantity, quality, time, or price.
- (4) Submission of a bid in an unsealed envelope.
- (5) Omission of a subcontractor's or supplier's name at bid submission time.
- (6) Unit price bid proposals which include reconcilable arithmetic errors may be corrected if it does not change the unit price.

CONSTRUCTION CLOSEOUT PROCEDURES

INTRODUCTION

Contract documents should detail procedures for project closeout and explain non-standard procedures. General conditions and Supplementary Conditions explain the basic procedures for closing out the project. CSI Division 1 has a suggested Section Title and Number for use in specifying items that might be included.

Closeout is normally accomplished in two phases: Substantial Completion and Final Completion.

SUBSTANTIAL COMPLETION

Substantial completion is defined as construction sufficiently complete in accordance with the contract so the Owner may use or occupy the work in the manner and for the purpose intended. Substantial completion inspection may be staged by floor, wing, area, or otherwise as agreed.

Contractor prepares for Substantial Completion by inspecting and testing all elements and equipment as required and identifying deficiencies.

Architect/Engineer prepares by verifying that substantial completion request is warranted, inspecting all elements and equipment, verifying and/or augmenting list of deficiencies and preparing a Substantial Completion Certificate or equivalent.

Where not provided in the Contract Documents, it is common practice to reduce retainage to twice the value of uncompleted work.

Project closeout submittals require a thorough examination of all relevant Contract Documents.

FINAL COMPLETION

Final Completion is defined as completion of all items of the deficiency list, completion of required submittals and discharge of all other obligations of the contract.

Contractor will inspect work for compliance with Contract Documents and correct all known deficient items.

Architect/Engineer will examine work.

When Architect/Engineer finds work acceptable and required submittals complete, then he will request Contractor to make final application for payment.

Payment should be made by Owner on Architect/Engineer's recommendation of properly documented application in the usual form.

OTHER CONSIDERATIONS

(1) Substantial completion may be made for a portion of project required for early use or occupancy as defined, in which case procedures should apply as applicable to that portion. Such occupancy may depend on provisions of total project mechanical and electrical services, access and life safety features, and others, all of which should be included in the scope of the procedures.

(2) Construction management and separate contracts require individual closeout procedures for each individual contract.

(3) Prior to project closeout, all change orders, deductions, penalties, bonuses, contingencies and allowances should be accounted for. If a late change order is incomplete, it should not delay substantial completion; such changes, made through no fault of the Contractor, should not interfere with release of retainage on the remainder of the Contract.

(4) Contract time ends and warranties begin at the date of substantial completion.

(5) By Oregon law, when a Contractor notifies the Architect/Engineer in writing that a public project is complete, the Architect/Engineer has 15 days to point out deficient items. This procedure may be repeated until the project is complete.

(6) By Oregon Law, an Owner may hold up to 5 percent retainage until all work is complete.

(7) Oregon Law requires Public Owners to make the final payment in full, or after 30 days, 1½ percent interest per month may be charged on the balance due.

BS by KS

Basic Specs by Ken Searl

In my local newspaper a few issues ago J. Wesley Sullivan's Commentary, a weekly column, was devoted to computer creativity. Mr. Sullivan stated that young people today, and this also applies to those of us over 30 who are forced to use longhand to record their thoughts, are severely limiting their mode of expression, to say nothing of crippling their capacity to think. No matter how skillful the penmanship, longhand requires the practitioner to form each letter individually. The typewriter offers a vast improvement, allowing each letter to be formed by the touch of the finger. But typewriters come with their set of limitations. The conventional typewriter imposes severe penalties for errors, requiring corrections or producing messy copy. Each correction means an interruption of the creative thought process. Also the typewriter requires its user to know how to spell, to have thoughts so well organized that they appear in a logical, orderly fashion.

However, with the word processor many of the traditional limitations and barriers are either removed outright or modified. The word processor allows the writer to let creative process flow freely into the computer. One doesn't have to worry about errors, spelling or even the orderly way in which the material reaches the screen.

After the mind has spent its creative urge, it can go back to revise the copy at leisure. A spelling program can search for spelling errors. Copy can easily be moved, inserted or deleted. Ha!, not at first it isn't.

Society apparently has yet to learn that the computerized word processor is not just a glorified typewriter but a new thinking tool. The person who refuses to use one will be in the same relative position in the future as those who shouted "Get a horse" at the first automobile drivers. They will be eating the dust of those who reach their full potential by using this liberating tool.

Now what does all this really mean? As I see it, it means that if you don't know how to type, even a little bit, then by golly it will benefit you to learn. Not just to operate a typewriter but to run a word processor. As far as I am concerned typing should be one of the mandatory requirements in school and not just an elective.

Now, I am not just referring to specification writers using a word processor but to all people in the design and construction profession. I don't care if you are even older than Old Ken, think strongly about getting a computer at your desk or work space and learn to run the electronic rascal. Don't worry if it acts stubborn and sasses you at first, stick with it and you will be glad you did. Just remember even a poor typist can look great.



Board of Directors Meeting - 5/5/87

Meeting called to order 12:13 pm -
Members present: Latham, Barker (excused tardy), Stricklin, Largent, Finch, Obert, Townsend, Josi, Shea, Peterson, Woods, Vrla, Robertson.
Absent: Brockamp, Daniels.

Treasurer's Report Approved as read. Products Fair funds coming in steadily. Discussion about member rebates for attending region conferences.

Bruce Townsend to be Technical Documents chairman FY 87-88.

Jim Peterson, Education Chairman discussed rescheduling the seminar on Construction Economics for October.

Joe Woods discussed progress on the Products Fair. Jody Proppe sent out 1000 invitations for the Coxe seminar. Woods mailed 1700 posters to professional CSI members. Portland Chapter of AIA is producing a special edition of their newsletter promoting the Coxe seminar and Products Fair. SMPS is planning a reception on the evening prior to the show for Mr. Coxe.

Candace Robertson reported on progress of the construction library. She will prepare a letter to CSI HQ requesting donations of money, literature and/or discounting to help equip the library, and present the draft to the board for approval.

Membership As of end of April the Portland Chapter has 284 members (11 new members in March).

There was a short discussion about the plans for the fun night and award ceremony in June. Meeting was adjourned at 1:30 pm.
Respectfully submitted, Inga Vrla, acting secretary.









NORTHWEST REGION

1. Cook Inlet, Anchorage, Alaska
3rd Tuesday of month
5:30 pm, Anchorage Int'l. Inn
2. Idaho (Boise Idaho)
1st Tuesday of month
6:30 pm, University Inn
3. Portland (Portland, Oregon)
2nd Tuesday of month
5:30 pm, Westin Benson Hotel
4. Puget Sound (Seattle, Wa.)
2nd Thursday of month
5:30 pm, Meany Hotel Towers, 45th & Brooklyn in University District
5. Spokane (Spokane, Wa.)
2nd Thursday of month, 6:30 pm, at various locations, 838-8681
6. Willamette Valley (Eugene, Oregon)
Last Thursday of the month
5:30 pm, Bev's Steak House



THE AMERICAN INSTITUTE OF ARCHITECTS / PORTLAND CHAPTER, INC.
213 SOUTHWEST FIRST AVENUE/PORTLAND, OREGON 97208/TELEPHONE (503) 223-1111



The Construction Specifications Institute
Portland Chapter, Inc.
1125 S.E. Madison, No. 200
Portland, OR 97214



SPECIFICATION FOR THE CONSTRUCTION LIBRARY

PART 1 GENERAL

After working for two years to organize a comprehensive CONSTRUCTION LIBRARY to serve the entire construction community, the Joint Cooperative Committee of the AGC, AIA, CECO, and CSI announces that the Multnomah County Library has agreed to house and administer the CONSTRUCTION LIBRARY.

PART 2 PRODUCT

The Joint Cooperative Committee needs donations of time, reference materials and money for the CONSTRUCTION LIBRARY. The AGC, AIA, CECO and CSI are all donating many of their publications. In addition to that, interested individuals are encouraged to donate whatever they can in the way of current construction reference materials, time or money. Please make arrangements through your local chapter of the AGC, AIA, CECO or CSI.

PART 3 EXECUTION

The Multnomah County Library is the recipient of a grant to fund operations, cataloging and personnel costs for the first year of the CONSTRUCTION LIBRARY. However, the timetable for use of the funds is very tight. Funds must be spent and catalogs finished and issued by September 30, 1987. This means donations of reference materials must be made as soon as possible.

Contact any of the following people for more information:

- | | | |
|-------------------|--------------------------|----------|
| John Brockamp | AGC | 682-3363 |
| Bob Dawson | AGC | |
| Ray Totton | AIA | 223-8757 |
| George Batterman | CECO | 292-2348 |
| Candace Robertson | CSI | 238-1462 |
| Margie Largent | CSI | |
| Polly Westover | Multnomah County Library | 223-7201 |

SCHEDULE—PORTLAND CHAPTER CSI

- Board of Directors—1st Tues. each month
- Dinner Meeting—2nd Tues. each month

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GOODBYE

It's that time of year again and I wanted to give special thanks to the people who have helped me in preparing The Predicator each and every month.

I was delighted last September when Ken Searl informed me that "no indeed, he was not retiring, and yes, he would contribute BS by KS for another year!" We are all richer for that.

Perky Kilbourn, in spite of becoming more and more well known in her field (due to research and presentations made internationally-she is in Hong Kong as you read this), has faithfully each month (even when Lee was in Washington, D.C.) come to our meetings and taken copious notes for her dinner meeting comments. Thank you Perky!

Thank you Dennet for your leadership this year and especially for the timely delivery of your column. My successors will certainly appreciate "on time" copy as I always have. My thanks also to John Brockamp for his "Membership" column and John Barker for B.O.D. minutes every month.

It wasn't always easy to get the Program plans - but we made it - sometimes with minutes to spare... doing "paste-up" on the way to the printer! Thank you Curt Finch for coordinating the Program Committee.

The next issue of The Predicator will be the work of Linda Bowman of SRG Partnership, Rochelle Geving, representative for Armstrong and Trasi Hogenhout of Construction Data and News. I especially appreciate these three wonderful volunteers!!! Sincerely, Inga Vrla, Editor

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