

the predicator



volume 20, number 1 construction specifications institute, portland chapter

september, 1980

president's column

by Ivan McCormick

So now I am your president. What an awesome responsibility. When I joined the Portland Chapter I took the job for granted. The aims, goals and tasks belonged to someone else. This permitted me to freeload for many years, attending Chapter meetings as I chose, while absolving myself of Chapter responsibility.

This has now changed. I am that "someone else." I am the one who must give direction to the way our Chapter goes. (See, I am already saying "our Chapter.") It is a challenging responsibility.

My first task was to secure a chairman for each committee. I was pleasantly surprised at the willingness of our members to serve. With very little effort on my part — just a few phone calls — the committees were chaired.

I remember reading once that the difference between a good association and an ineffective one is often reflected in the cooperation, or lack of it, of the people associated with it.

It is a spirit of team-work which makes an association really go and a pleasure to work with. When there are no helping hands a pleasant task becomes a grudging chore.

My goals for the coming year:

1 Chapter Bylaw Update: Before I became president I couldn't have cared less about bylaws. Now I must live by them, and there seem to be some problems with the present documents. We have copies, but the location of the one with the most current up-dates is in doubt. We need to have a current copy at our fingertips. Margie Largent began the updating last year. We hope to have a final draft for your review by the middle of September. Hopefully we will not be opening a Pandora's Box when we ask for your constructive critique.

2 Chapter Business: No one person can run an association. Authority must be delegated. Each of us have something to contribute. Collective expertise and willingness to share will determine the progress for this year. I will devote my attention to the Chapter business. Also I'll seek you out for specific tasks.

(please turn to page 2)

september chapter meeting

DATE: Tuesday, September 9th, 1980
PLACE: Mallory Hotel
TIME: 5:30 Social
6:30 Dinner
7:30 Program
COST: \$8 per person
PROGRAM: *Women in Construction*

Three members of the National Association of Women in Construction will speak on the activities of both the National and the Portland Chapter of NAWIC. Special emphasis will be given to the Construction Dictionary put out by the Phoenix Chapter and currently available for use by Construction Industry firms.

Rosalie Hayward, of the William Hammond Company, a Life Member and founder of the Portland Chapter of NAWIC, will talk about the history of the organization and what the national does.

Dorothy Linden, Office Manager at Troutdale Sand & Gravel, and a past President of the Portland Chapter, will speak on the history and value of the Construction Dictionary.

Lynne Golliglee, Controller at Ernpire Building and current Portland Chapter President will talk about the plans of the local chapter for the coming year and its past accomplishments.

The October Program will be October 14th, and the program will be devoted to Elasto-Meric Single-ply Roofing Systems.

why people go to conventions

by Perky Kilbourn.

Having recently returned from the CSI Convention in Anaheim, I thought I'd write a list as to why this spouse attends — others may have a different list.

1 Conventions are fun — enjoyable — if only somebody connected with the construction industry would think to have a cocktail party in a lumber yard — and dance among the stacks of lumber.

(please turn to page 3)

BS by KS

Basic Specs by Ken Searl

For several years our firm's specification for sound-insulated walls called for sound-insulating batts or regular wall insulation with paper-facing. Also, for several years, the finished sound-wall usually didn't perform correctly, largely due to improper installation and in some cases no installation at all. The insulation contractor apparently forgot to look at the drawings.

Therefore our specifications state both sides of the gypsum wallboard or plaster are not to be installed until an inspection of the insulation has been made. I hate to say it, but for the past several years I have never been able to accept a sound-insulated wall on the first inspection visit. No one ever seems to get it right. I have explained many times to workmen that, in a thermal insulation installation, a gap or two will not affect the performance very much, but that any small gap in a sound-wall can blow the whole operation. Even back-to-back insulated electrical boxes can ruin a sound-wall.

Last month, for the second time, I was inspecting a sound-wall installation. I was walking through the building with the insulation foreman, explaining how much a slight gap can affect the transfer of sound when, lo and

(please turn to page 3)

coordinating council to meet

Plans are under way for the October 17th, 1980 meeting of The Coordinating Council, at the Sheraton Inn-Portland Airport. All Chapter members are invited to attend and participate in the Region business.

Time Schedule:

1:30 pm Meeting
5:00 pm Break
6:00 pm No host Social Hour
7:00 pm Dinner (Price to be arranged.)
8:00 pm After dinner meeting, if necessary

Please contact Janet if you are planning to attend, at 223-8757

directors' report on june meeting

At the 1980 Institute Convention in Anaheim in June there were over four thousand registrants, which exceeds the largest attendance at any previous CSI Convention by nearly a thousand. The Products Show, with four hundred exhibitors, was also a record breaker, and two hundred have already signed up to participate in the next convention in St. Louis, June 21-24, 1981. Plan to be there!

There was only one resolution presented to the convention, to allow more time to submit nominations by petition for officers. The chapters of the Northwest Region strongly supported this, but to our disappointment it failed passage by about a three to five vote.

The Institute Board of Directors Meeting did not produce anything very radical, but you would be interested to know these Northwest Region Members were appointed to committees — Jesse Wilkins, Puget Sound, to Technical Documents; Dick Gira, Portland, to Education; Art Nordling, Spokane, to Awards; and Lee Kilbourn, Portland, to Certification. We also approved amendments to the Institute Specification Competition Rules — entries will be limited to two per person, and three additional entry categories were approved — Energy Conservation, Restoration, and Product Procurement. It was agreed that the convention Man-Mile Trophy will be retired, as it no longer serves a purpose. And finally, the Puget Sound Chapter was allocated \$250 for the purchase of a die for thirty-year membership chevrons.

Two of our chapters have been selected to host the Continuing Education Seminars during the coming year. The Cook Inlet Chapter will be hosts to a seminar on The Bidding and Award of Construction Contracts on October 24th, 1980, and the Willamette Valley Chapter will arrange a seminar on Specification Writing for Mechanical and Electrical Engineers on March 6th and 7th, 1981.

Our mid-year Coordinating Council Meeting of Chapter Officers and Region Committees will be in Portland on Friday, October 17th. All interested members are encouraged to attend. Consult your Chapter president for details.

Finally, don't forget our Northwest Region Conference in Anchorage, February 19th to 23rd, 1981, at the same time as the Anchorage Winter Carnival. The conference theme will be Cold Weather Construction.

northwest regional conference

The Cook Inlet Chapter will host the Northwest Regional Conference in Anchorage, Alaska, February 19th to 23rd in 1981, planned to coincide with the Anchorage Winter Carnival, a celebration complete with dog-sled race.

Western Airlines offers CSI a triangular trip from Portland to Anchorage to Honolulu and return to Portland, for \$479.99. This cost is guaranteed through May 8th, 1981 and is about \$100 above the round trip fare from Portland to Anchorage. (The price guarantee applies only to the triangular excursion.) Make your reservations with your travel agent now, if you want to be sure of accommodations. Here is the schedule:

Leave Portland	10:40 am	19 Feb.
		Flight 775
Arrive Seattle	11:12 am	
Leave Seattle	1:25 pm	Flight 729
Arrive Anchorage	2:37 pm	
First meeting begins	5 pm	19 Feb.
Leave Anchorage	1:25 am	23 Feb.
		Flight 582
Arrive Honolulu	7:15 am	

No formal meetings are planned while members are in Honolulu. Arrange your own return flight to Portland.

The above schedule gets you to Anchorage closest to the scheduled meeting time, though of course there are other flights. Give the above information to your travel agent for your reservations.

See Ivan McCormick if you have questions.

For those members who wish to thaw out after the Carnival, the trip can be extended to include Hawaii, with Western Airways providing a triangular trip which includes Honolulu for only a few dollars more than the round trip to Anchorage. Don't delay making arrangements with your travel agent, as housing in Hawaii in February can be hard to find. Your Chapter president has a special travel package and can answer questions.

We look forward to seeing you.

Bill Mincks and
Paul Edlund

(continued from page 1.)

president's column

Ivan McCormick

3 Chapter Meetings: We will continue to meet the second Tuesday of every month from September through June. The programs will be varied and as interesting as you make it.

4 Board of Directors: The Board of Directors will meet the first Tuesday of every month from September through June.

5 Education: Under the direction of Dick Gira, we have had a tremendous year in our education services. We showed the Institute how to do it. Under Dick's guidance we will continue to provide this high quality education program through the coming year.

There is nothing spectacular here. Just the desire to keep our Chapter going progressively forward.

A group of men were being installed as officers of a service organization. The installation consisted of them raising their right hand and saying, "On my honor I'll do my best." Can we ask any more? Should we accept any less?

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board of directors minutes

June 3, 1980

PRESENT: H. Jones, M. Largent, I. McCormick, D. Gira, L. Kilbourn, C. Johnson, L. Arnold, D. Ashton, S. Nelson, E. Charles, J. Davidson, K. Searl, B. Merritt, J. Sampier, L. Seeley, R. Moorman, C. Urben, J. Crook, L. Brown, R. Mohr, J. Hill.

1. The minutes of May 6, 1980 were approved as circulated.

2. Treasurer's Report: Don Ashton gave a verbal Treasurer's Report for the month ending April 30, 1980.

3. Mary Alice Hutchins has asked to be replaced on the Board of Directors. Her term ends in 1982. Members should submit names of Professional Members who might complete her term to Ivan McCormick.

4. The Board discussed re-designing the CSI Chapter Letterhead. Jane Sampier made a motion that the chapter leave the letterhead as it is except for the color. No second.

Les Seeley made a motion; Stan Nelson seconded that the chapter allow a maximum of \$50 over the cost of one color printing, for two colors/2000 copies of the letterhead. Passed.

5. Stan Nelson made a motion that the rosters be mailed at 8.4¢ per copy to each of the CSI Members. Jane Sampier seconded the motion. Passed.

6. Committees:
Ivan McCormick outlined important projects for each committee during the coming year

- a) Awards Committee
Develop a certificate of appreciation
Al Hanson Memorial Award criteria
- b) Chapter Affairs Committee:
Collect money at the chapter meeting
Responsible for nametags
- c) Education Committee:
Insurance Seminar
Value Engineering Seminar
- d) Membership Committee:
Membership packet including:
roster, Bylaws, committees, pin, **The PREDICATOR** letter of welcome.
- e) Products Fair — April 14, 1981
The committee is established and working on details pertaining to the fair.

(continued from page 1)

why people go to conventions

by Perky Kilbourn

2. You meet great people — year after year — from all over the United States. I found out what the construction industry was doing from California to Indiana to Maine. We in the Northwest are better off than many.

3. Knowledge — The men's program was great (Lee says — I didn't get to attend any of it). The lady's program was interesting, with a tour of the Queen Mary and the Huntington Library and Grounds.

4. Recognition — only a few people follow the CSI Manual of Practice, read specification competition rules, and enter their specifications so they will win awards. Thus Lee is able to pick up a couple of awards each year. Recently there have been some rule changes and now each person can only submit two specifications. This may be good if more people submit specifications but it will be bad if the Judges give one in each group, whether deserving or not. What Lee did last year was to get a consultant to submit his specification — so he got an award as a collaborator. Lee's highest award was as a contributor to a mechanical specification won by Carl Urban (PAE).

All in all, conventions are worthwhile and we enjoy attending them.

- f) **The PREDICATOR**
The deadline will be the 10th of each month for information to be printed in **The PREDICATOR**
- g) Public Relations Committee
Write a biographical sketch of directors and committee chairpeople
- h) Technical Committee
Complete T.A.S. documents for last year.
- i) Program Committee
The chairman should prepare an in-depth review of each program for **The PREDICATOR**. List the next month's program in a headline to catch the reader's interest.

The meeting was adjourned at 1:15 p.m.

Respectfully submitted,

Janet Hill, Recording Secretary

(continued from page 1)

BS by KS

Basic Specs by Ken Searl

behold, we came upon a wall where another craft worker had a radio playing on the opposite side. The sound was coming through a gap, around a vertical electrical conduit. I believe the foreman finally got the message.

Another problem with batt-type insulation is that it can settle, if not installed absolutely correctly. By now you are probably asking okay, Ken, you've made your point, now what do you recommend to rectify this situation?

Well, I'll tell you. I propose to go to a sprayed-in-place application of cellulose treated to meet fire codes. I am sick and tired of fighting improper installations. We recently completed a job using this system and here again the first application was not correct. The installers had to come back and do additional work, but the completed job did not have any gaps and when the project was completed and in use by the owner the sound walls performed excellently. It appears to me that this system adapts much better to conduits, protrusions, and other irregularities in walls and can therefore achieve a much better sound rating.

If you get the feeling I have a poor opinion of many of today's craftsmen you are entirely correct, but that is another subject. I hope someday the situation will improve.

metric conversion report now available from ANMC

A proposed Metric Conversion Timetable for the U.S. construction industries has been published by the American National Metric Council (ANMC).

The report is available for a price of \$12.50 and can be obtained by sending a check to the American National Metric Council, 1625 Massachusetts Avenue, N.W., Washington, D.C. 20036.

new edition

Architectural Aluminum Manufacturers Association has published an updated edition for its Certification Program Directory, a buyer's guide for builders, architects and code bodies. Copies are available at \$2 each from Architectural Aluminum Manufacturers Assoc., 35 E. Wacker Drive, Chicago, IL 60601.

june residential construction

After eight months, residential building made its first positive move in June and boosted the Dodge Index of construction contract value for the first time this year, according to the F W Dodge Division of McGraw-Hill Information Systems Company.

Revealing the depth of the housing decline, residential construction on a June-to-June basis was down 30 percent to \$5.1 billion from last year's \$7.3 billion. On a seasonally-adjusted basis, however, the June amount was higher than the May figure, breaking an eight-month string of declines.

"Declining mortgage rates, growing availability of mortgage credit, and rising home sales are working their restorative powers on residential building," said George A. Christie, vice president and chief economist of F W Dodge. "The recovery is underway," he stated, "but residential building has fallen so far so fast that several months of erratic activity are likely before sustained, vigorous expansion takes hold."

1979 mechanical code in effect

The State Mechanical Specialty Code and Fire and Life Safety Code (1979 Uniform Mechanical Code with Oregon Amendments) was adopted by the Director of Commerce and the State Fire Marshal and became effective on July 1, 1980.

Chapter 6, Combustion Air; Chapter 7, Heating Systems; and Chapter 10, Ducts, have been revised in the 1979 Code. These revisions are changes in language and wording and not in the requirements themselves. If you have questions, please call Bill Strange 378-8499.

COST 1979 Uniform Mechanical Code Complete package, with Oregon amendments & binder \$19.50

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chapter committees

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503/636-6977

Audit

Jim Davidson
503/226-3508

Awards

Ken Searl
503/223-1181

Chapter Affairs/Hospitality

Hunt Jones
503/226-7351

Institute Education Committee

Dick Gira
503/224-8226

Institute Fellowship

Larry Brown
503/620-1014

Larry Arnold

503/227-1751

Liaison-CSI-AIA

Bob Klas
503/222-4221

Membership

Lee Kilbourn
503/224-3860

Products Fair

Cristal Johnson
503/682-2822

Program

Ed Charles
503/232-1484

Public Relations

Jane Sampier
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Publications

Dennis Obert, Chairperson
503/228-6459

Marilyn Matteson, Editor

503/223-8231

Janet Hill, Production Assistant

503/223-8231

Lee Kilbourn, Circulation

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Ken Searl, Columnist

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Lee Kilbourn, Roster

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volume 20, number 2 construction specifications institute, portland chapter

october, 1980

president's column

by Ivan McCormick

"The Image of our Town Starts With Me-You-Us," read a placard on the top of a taxi in Reno, Nevada. This reminded me of a discussion I had with a non-active Industry member several months ago. He expressed a concern about the relationship of professional and industry members in our Chapter. This concern is based on a personal experience several years ago. The experience left him with the feeling that the professional members of the Portland Chapter lorded over the industrial members. This was contrary to the Chapter where he used to belong.

He has not been active in our Chapter for this reason. He asked me my feelings.

I am not aware of this being the practice with the Portland Chapter. Not now or previously I would hope it never happens, but for this individual, it was very real.

The uniqueness of our association is the bringing together the different construction disciplines. A chance for the meeting of the minds for our own common good. We can have no prima donnas. I know I need the open communication with each of you to fill in my lack of knowledge. CSI cannot survive with a hostile attitude.

Attitude — that has an effect on all of us. It affects the way we see other people. It helps us to form opinions. That first impression is based on our attitude and the attitude of the other person. If we get up on the wrong side of the bed with a chip on our shoulder, it will affect our outlook. Heaven help the poor guy who crosses our path that day. A hostile attitude shows us only the bad while the friendly attitude sees the good.

Perhaps this industry member's experience with our Chapter occurred on one of those bad days. A day of the hostile attitudes of either or both parties.

I hope that his future experience with us will be positive.

october chapter meeting

DATE:
Tuesday, October 14, 1980

PLACE:
Sheraton Inn at the Airport

TIME:
5:30 Social
6:30 Dinner
7:30 Program

COST:
\$10.00 per person

RESERVATIONS:
Please call Janet by Monday noon, October 13th — 223-8231

PROGRAM:
ELASTOMERIC MEMBRANE ROOFING

A look at elastomeric membranes applied as one continuous sheet over an entire roof.

Uses and limitations, weathering factors, wind uplift resistance, fastening systems, roof penetrations, edge and flashing details.

Presentation by Stanley B. Scese of Carlisle Tire & Rubber, and Brent Elder of Dynamit Nobel.

tabletop displays

The Education Committee will provide space for tabletop displays at each chapter meeting this year. Your participation is solicited.

A display should include handout literature and be accompanied by a knowledgeable person to answer questions. Displays will be open from approximately 5:45 p.m. until after the program.

The topic for the October meeting will be single-ply roofing, and the deadline for making arrangements to include your display will be October 9. The topic for November will be lath and plaster, and the deadline will be November 5. Future topics to be announced. Limited to CSI members.

If interested, contact Stan Carper, 655-5115, or Betty Sherman, 231-5000, to discuss such details as table space and signs.

BS by KS

Basic Specs by Ken Seart

In the August 1980 issue of *BUILDING DESIGN AND CONSTRUCTION MAGAZINE* there is an article by Gordon Wright, News Editor, on page 16, entitled "Contractors Rebut 'Broker' Charge by AIA, Subs". Well now! As the beer ad would say, just what is a broker? In our office dictionary, a broker is listed as "an agent who buys or sells for a principal on a commission basis." Somehow or other this doesn't seem to describe the average general contractor that I have worked with for many years. It seems to me that for a contractor to be a broker, a buy or a sale is in order. True, a contractor places a bid and if low might be considered a buyer in a sense, but not really. Did the contractor pay anything for a low bid? Definitely not, unless the bid was way too low, then zappo, a bid was bought! As to who pays who, is it the owner paying the contractor or is it the contractor paying the owner? Well now! It seems obvious who is buying and who is selling.

Over the years there have been contractors who were actually brokers. I remember one large Chicago firm who, if low bidder would peddle the whole contract for a profit to a general contractor and if they couldn't find someone to do the work at a good price, then they would do it themselves. Now this type of contractor is definitely a broker in the true sense and is an agent who buys and sells. When you analyze today's average general contractor one could almost say a general contractor is actually a construction manager for hire, with the main difference being that the risk is all on the contractor, whereas a construction manager has no great risk because the owner actually is the general contractor.

You may be asking by now just how did the general contractors get into this position of having to rebut charges by the American Institute of Architects (AIA) and the American Subcontractors Association (ASA). In my opinion the major item that caused trouble between general contractors and the ASA is the slowness of payments to subcontractors. This has occurred for a long time, and from the amount of phone calls I have received from subcontractors over the years, I feel some general contractors

chapter by-laws

(please turn to page 2)

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september chapter meeting

by Perky Kilbourn

September 9 was the date of the first fall meeting of Portland Chapter of CSI. It consisted of two three-part discussions of two organizations. On the surface the only thing the two organizations have in common may be the word "Construction" in their titles, but after listening to an excellent presentation I realize they share many common goals and interests.

Rosalie Novak Hayward of Wm. Hammond Co. began the program with a discussion of the history of National Association of Women in Construction (NAWIC). Sixteen women started the original group in Fort Worth, Texas on September 11, 1953 and the Portland Chapter received its charter on August 11, 1961, with 31 members.

NAWIC has developed and made self-sustaining a NAWIC Founders Scholarship Foundation which offers scholarships to students qualifying under the merit foundation. Locally they have awarded a scholarship each year to a college-level student, studying a phase of the construction industry.

NAWIC has developed a three-part education program, "Operation Woman Power", financed and administered by the NAWIC Education Foundation.

1 INTRODUCTION TO CONSTRUCTION — a classroom series sponsored by individual chapters. Those who complete the program are awarded a Certified Assistant in Construction award. Portland Chapter has sponsored an Introduction to Construction classes four different years.

2 CERTIFIED CONSTRUCTION ASSOCIATE — a program open only to members of NAWIC, which is an intensive home-study course designed to give the member expert knowledge of the construction industry and related fields. This program was developed especially for members of NAWIC by professors at Northwest Louisiana University and the entire course is equivalent to a college degree in construction management.

3 DEGREE AND SPECIAL COURSES — active members of NAWIC are given scholarship reimbursement for their tuition to colleges, junior colleges, and approved home-study courses.

Dorothy Linden, Office Manager at Troutdale Sand and Gravel Co. gave a brief discussion of the history of the *Construction*

Dictionary. She showed us a copy of the first edition (1966). It was revised in 1968, 1973, and the last revision is 1978. It is an excellent dictionary which all phases of the construction industry can use. If you don't have a copy you can get one by contacting a member of NAWIC.

Lynne Golliglee, Controller at Empire Building Material Co., completed the discussion by indicating what the Portland Chapter of NAWIC is doing now. It sounds as if they are an active, viable group which is devoted to improving the services women can provide the construction industry.


Stan Carper then asked Bob Klas to explain SPEC DATA, Lee Kilbourn to explain SPEC-TEXT, and Lary Arnold to explain the Technical Aid Series (TAS), of the Construction Specifications Institute. Both NAWIC and CSI offer their members the same benefits so appropriately listed by Rosalie:

TO THE MEMBER — The association provides an opportunity to improve our knowledge of the industry, and to make acquaintances within it, locally, regionally and nationally.

TO THE EMPLOYER — The association provides us the opportunity to be more knowledgeable of the industry, and to be a more valuable employee.

TO THE INDUSTRY — Through our education programs, construction projects, scholarships, and participation with others in the construction industry, we are improving our world — the world of construction.

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James F. King
President

it's yours; use it

By permission adapted from *The Seattle Spectrum*.

As members of the Portland Chapter of CSI, **The Predicator** is yours. Take advantage of it!

If you've got some information relating to the construction industry that you'd like to share with other members, get it to the editor for publication. We welcome articles on new products, construction methods, and related services available. If you've changed jobs or positions, let us know and we'll pass it on to the membership at large. Even if you feel it's self-serving, don't be shy. After all, that's what we're here for, to serve you.

If you're on a committee and working on an exciting project, let the rest of us know about it. We like to feel that there's really something going on behind the Committee Titles. If you don't tell us about it, your hard work will go unnoticed and unappreciated.

If you've attended a construction related seminar or class, share your knowledge and experiences with the rest of the Chapter. Don't be selfish! We all have a common interest, bettering the industry at large.

If you need help or want to promote your business, take an ad in **The Predicator**. We have a mailing list of over 500, so you have a captive audience. We take business card ads, half- and full-page ads, and classified ads. Something is sure to be just right for your needs.

Because of time restraints, we can't always come to you. Take the initiative! Be part of CSI and actively participate in the Chapter newsletter.

The deadline is the 10th day of each month for the following month's issue.

chapter by-laws

Vote on the by-laws will be at the October 14, 1980 meeting. Two-thirds vote of the total Professional and Industrial Members attending this meeting is required for approval.

board of directors minutes

September 2, 1980

PRESENT McCormick, Eggleston, Nelson, Charles, Kilbourn, Obert, Jones, Sampier, Gira, Seeley, Searl, Hill

1 The minutes of June 3, 1980 were reviewed and approved

2 Stan Nelson presented the Treasurer's Report for the month and quarter ending August 31, 1980.

Cash	0
Checking Account	484.00
Savings Account	3,893.62
Accounts Receivable	1,000.00
Postal Permit #1737	163.70

Accounts Payable

NET ASSETS

3 Mary Alice Hutchins resigned from the Board of Directors in June. Ivan McCormick suggested that Jim Grady replace Mary Alice on the Board.

Les Seeley moved, Jane Sampier seconded that Jim Grady be appointed to replace Mary Alice Hutchins. Motion passed.

4 Ivan McCormick reported that Cristal Johnson had met with the Canadian representatives to discuss the 1981 Products Fair. The Canadians could provide 40-50 exhibits to the fair, but suggested that the fair be two days — April 15-16 — rather than one on April 14.

Don Eggleston moved, Stan Nelson seconded that we ask the Canadians to be represented at a two-day fair, April 15-16, 1981. Motion passed.

5 Dick Gira reported that he was planning three seminars during this year. The subjects would be Insulation, Insurance and Reprographics.

There will be a Mechanica-Electrical Seminar held in Eugene in March.

Les Seeley moved that tabletops be reinstated at Chapter Meetings, but that only members be allowed to display their products. Jane Sampier seconded. Passed.

6 Women In Construction will present their organization to the CSI Members at the September Chapter Meeting, Tuesday, September 9, 1980, at the Mallory Hotel. Dinner will be \$3.00 per person.

7. The current membership of the Portland Chapter CSI is 202 members.

8. Les Seeley reviewed the proposed Bylaw amendments with the Board. The Bylaw amendments will be listed in **THE PREDICATOR** in October, and will be voted on at the October 14 Chapter Meeting.

9. The Regional Meeting will be held February 19-21 in Anchorage, Alaska. The President and the President-Elect will be attending.

Portland will have the Regional meeting here in 1983.

Paul Edlund will leave his position as Regional Director in June 1982. The Portland Chapter should be thinking of someone to replace Paul. It must be a Professional Member. If you have ideas, give Ivan the name at the next Board meeting.

The meeting was adjourned at 1:15 p.m.

Respectfully submitted,
Donald Eggleston, Secretary

reading door closer guide

Reading Door Closer Corp., has published a guide outlining procedures for specifying Reading's door opening system for handicapped accessibility.

Reading's Door Systems (Series 1100) provide economical solutions to requirements for barrier free design. The controls are surface applied, providing ease of application for retrofit as well as new construction. Reading's Series 1100 meets the new ANSI A117.1, and all other existing Handicapped Codes.

The guide also details specifications for Life/Safety Systems (Series 101) for applications in nursing homes, hospitals, institutions or any facility where concern for life/safety is important.

To receive your complimentary Specification Guide, or information on any Reading Door Closer Corp. system, write Reading Door Closer Corp., Reamstown, Pennsylvania 17567, or call, Toll Free 1-800-523-8483.

BS by KS

Basic Specs by Ken Searl

(continued from page 1)

are guilty as charged. Some cases involved the general contractor receiving a payment either partial or final and had not paid some subcontractors for over forty-five days. As to why the president of the AIA states too many, if not most, contractors have become brokers I do not know.

My preference for awarding contracts is the lump-sum method, normally accepting the lowest qualified bidder. Over the years this method has shown to be the best for both owner and architect. It definitely involves less paperwork, assigns responsibility to one firm rather than three to thirty or more, and a heck of a lot less arguing as to whose fault it is if the project falls behind schedule. An owner under a many general contractor project has to participate heavily costing time and money. Coordination among many contractors on a project usually is never as good as the one general contractor concept.

As an example of what can happen under many general contractors on a project is what does the owner do in the warrantee period? Supposing a water leak occurs above a suspended ceiling and water damages the acoustical ceiling, lighting fixtures, wall paint and floor covering, not to mention furnishings, etc. Just which general contractor does the owner call to get immediate action to get back in operation? If the owner calls the mechanical contractor and a crew comes out to repair the leaky pipe, then what happens? Does the owner or the mechanical contractor get the other trades involved? Does the owner's or contractor's insurance cover this type of damage? It is much simpler for an owner to call a general contractor under a lump sum contract and say, "Hey, fella, get cracking."

In summation, it is felt that if the general contractor-subcontractor relations are improved, particularly in regards to payments, then we will probably be hearing a lot less noise about general contractors being brokers.

board fills vacancy

The Board appointed Jim Grady of Peck/Grady Associates — Architects, a Director, at its September 2, 1980 meeting. Jim will fill the position vacated by Mary Alice Hutchins.

We welcome Jim to the board.

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new guide by former CSI president offers key to construction terminology

Attempting to untangle the complex jargon of the construction industry can prove to be a difficult task even for the most experienced professional. Technological, historical, and geographical influences have created a maze of constantly changing expressions and phraseology.

J. Stewart Stein, AIA, FCSI, helps clear up this confusion in his new book, *CONSTRUCTION GLOSSARY: An Encyclopedic Reference and Manual*, has been published by John Wiley & Sons (April 1980, \$60.00). A comprehensive key to construction terminology, the book draws on the author's lifelong experience in 48 states in the continental United States and in the District of Columbia, as well as extensive research of approximately 300 building codes and several hundred U.S. Government Printing documents.

The book guides readers through critical areas such as multiple meanings, historical references, recommendations, specification language, code interpretations, standard uses, manufacturers' recommended descriptions, and chemical analysis of materials related to the industry. Stein shows how to recognize terminology and meanings as related to the practice of a specific trade, as well as how to interpret plans and specifications necessary for the preparation of bids, the development of vacant land, and the understanding of construction legal matters.

The book is organized in a completely new format of major relevance to today's construction industry. This new format follows the 16 divisions of The Construction Specifications Institute's MASTERFORMAT. In addition, two new informational divisions are included: Professional Services and Construction Technical, Scientific and Related Data.

An essential source book for architects, engineers, and contractors, *CONSTRUCTION GLOSSARY* should also prove a necessary tool for those in real estate, construction law, government, and banking who must have a knowledge of the unique language of the construction industry.

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the predicator



volume 20, number 3 construction specifications institute, portland chapter

november, 1980

president's column

by Ivan McCormick

The Regional Coordinating Council will have held their meeting in Portland on Oct. 17, 1980. Their minutes will be published in a future issue of the Predicator. I came across some interesting facts on our Chapter in developing my report for this meeting.

- Chapter Membership** (as of 31 Aug 80)
Emeritus Members 1
Professional Members 103
Industrial Members 103
Junior Members 2
Student Members 1

Total 220

Included in this tally are two Fellows, one Professional and one Industrial.

- Average Chapter meeting attendance is 40 members with about 5 guests; 20% of our membership.
- Educational activities for the coming year include:
 - Five minute talk at Chapter meetings on some facet of CSI.
 - Publish article in **Predicator** each month on a Building Code or Standards Item.
 - There will be tabletop displays at each meeting relating to topic of the day.
 - During this year, we will sponsor seminars on insurance, reprographics and historical building renovation.
- Our technical activities will include preparing Technical Aid Series documents on lath and plaster, plywood siding, and soil stabilization.
- The Products Fair will be on April 15-16, 1981 at the Memorial Coliseum. This will be a joint exhibit with Canada with some 40-50 exhibitors from British Columbia. The publicity given this international fair should give us an opportunity to spread the CSI word.

(please turn to page 3)

flash

By-laws approved at last meeting of CSI by a unanimous vote. Mailing soon.

november chapter meeting

DATE:
Tuesday, November 11, 1980

PLACE:
Mallory Hotel

TIME:
5:30 Social
6:30 Dinner
7:30 Program

COST:
\$10.00 per person

RESERVATIONS:
Please call CSI Office before Monday noon, November 10th

PROGRAM:
Northwest Lath & Plaster Bureau, Inc.

A look at framing, lathing, fireproofing and plastering systems including the use of gypsum, Portland Cement, and exterior insulated plaster systems.

In addition, a live demonstration of plastering will be given.

Participating in the program will be Dick Gira, of the Plastering Bureau, Jeff Shearer of Fred Shearer & Sons, Plastering Contractors, and Jack Ross, Business Agent of the Portland Plasterers Local #82.

historic preservation technology

A wine and deli supper at the Chapter Offices will be offered at a seminar on Historic Preservation and Restoration on November 12th, from 4:00 pm to 8:00 pm. The three-hour educational experience will be conducted by Alfred Staehli, AIA/CSI, who is a recognized authority in the growing and specialized field.

The seminar is open to anyone engaged in, or interested in preservation and restoration projects.

Complete details and an application form are inserted in this issue.

BS by KS

Basic Specs by Ken Seart

Every now and again, an idea occurs to all of us but often times we don't do anything but entertain the idea. What we should do is to implement and apply the idea in our work or in our everyday life. For instance, for a long time I have felt that all manufacturers involved with the CSI should put the division number on the outside narrow edge of all three-ring binders containing useful information. (Some manufacturers already do this and I thank them.) This is a small item, but a great help in filing of this type of information in many architectural offices. Another item that would be a great help is a place for a date received and updates at front of binder. I know in our office if you don't keep track of the dates, the first thing you know, the catalog is four years old or older and is usually not accurate.

Manufacturers would also be wise to never furnish catalog information in a binder smaller than 3/4" to 1" thick even if it is only one-third full. We have a lot of trouble trying to keep track of individual unbound factory information sheets. It either gets lost in a file, on someone's desk, or gets thrown into the round file.

Well, now that we have that off our chests, I will get down to the business of **BS by KS**. By now some of you rascals out there are probably saying, what does Ken call the above? Well, as you know, BS stands for better specs, aha! You may have thought it meant something else.

This month I want to talk about chapter programs and seminars. First of all, I want to make myself perfectly clear (no, I didn't study under Nixon) that no criticism is intended for all you guys and gals that are involved with programs and seminars. Believe me, it is a big job. I do have a point or two that I feel should be mentioned. When a person is young or inexperienced, any general knowledge program or seminar is great. One usually comes away thinking, boy, I sure got a lot of help out of that meeting or some similar comment. However, the more one becomes proficient it seems less knowledge is gained at a program or seminar. At a chapter program even if an individual program wasn't your cup of tea,

(please turn to page 3)

october chapter meeting

by Perky Kilbourn

Education seems to be a major emphasis of Portland Chapter CSI meetings this year. Last month the second part of the program, which was moderated by Stan Carper, was under the direction of the Education Committee. The Education Committee is also providing space for tabletop displays at each chapter meeting and if interested in preparing a tabletop display please contact Stan Carper, 655-5115, or Betty Sherman, 231-5000. In addition, the Education Committee has talked Lee Kilbourn into preparing a discussion of abbreviations for each month's **Predicator**.

The October meeting had tabletop displays by the two program presenters. Frank Poley of Carlisle Tire & Rubber and Brent Elder of Dynamit Nobel as well as by David Wahl and Dick Bauer of Tremco. Frank Poley began the program by discussing how his company got into the roofing business. It was mainly by providing pond linings for liquid containment, and waterproofing for railroad lines. As costs of conventional roofing materials increased rapidly, their product costs, not using so much petroleum, did not increase as fast, so that now they are competitive with conventional roofs.

The one application procedure which may create problems is the field connection between two sheets and Frank made a point of explaining how joints are to be connected. Also discussed were some of the problems which rubber or PVC sheets can solve such as their ability to cover uneven or odd shaped roofs. The covering for flashing material is non-rigid, too, so that it can take the shape of the object it is to cover. Pictures and solutions of some specific problem jobs were shown and explained.

Brent Elder then gave an overview of the problems that elastomeric single-ply systems can solve:

1. Moisture which is trapped in roof sub-structures during construction can be released by passing through the elastomeric single-ply material rather than forming blisters as in conventional roofs.
2. Organic ("Rag") felts curl at the edges as they age and dry out, which is not a problem with elastomeric single-ply roofing as it is not saturated with water. Unfortunately, though not mentioned during the meeting, some elastomeric single-ply roofing does shrink, but most installers allow for this.

2. Plant roots cannot get into elastomeric single-ply roofing and cause failure. This sometimes occurs with conventional roofs if water is allowed to pool on roof surfaces in areas with dirty air.

4. The loose laid system of elastomeric single-ply roofing allows the members to move as a result of thermal differences without causing cracking and roof failure.

The disadvantages or cautions involved in using the elastomeric single-ply roofing materials were also discussed.

1. Certain elastomeric single-ply materials may be susceptible to ultraviolet radiation and sunlight and must be protected by gravel, pavers or some protective material.
2. The loose laid elastomeric single-ply material must be weighted down or it may bubble due to air entrapment under it. Frank Poley showed an example and then went on to explain how the bubbles were cut open and the air allowed to escape and then the openings sealed shut. This would not be possible with a conventional roof.
3. Some solvents will dissolve the elastomeric single-ply material, especially paint solvents, so if the material is to be painted or objects on the roof are to be painted, then care must be taken to prevent spilling of paint solvents. Solvent impermeable plastic rather than canvas drop cloths can be used.
4. The elastomeric single-ply material can be punctured and thus it needs to be protected if a lot of walking on the roof is expected. It was also suggested that if the entire roof surface is covered with pavers then there should be a protective layer under the elastomeric single-ply material as well as on top. Elastomeric single-ply material should not be laid directly on top of a rigid roof system such as concrete or metal decking if pavers are to be placed on the surface of the elastomeric single-ply material. To solve this problem, a protective layer of insulation can be placed under the elastomeric single-ply material to cushion it and the pavers can be placed on top.

One concluding point which I found interesting was that if planting is done on top of an elastomeric single-ply roof, it is no longer called "roofing," but is referred to as "waterproofing" and has a different warranty.

All in all, a most educational meeting!

ABBR.

by Lee Kilbourn, CSI, CCS

This series on abbreviations is being presented at the request of the Education Committee of the Portland Chapter CSI, Dick Gira Chairman, in an effort to promote understanding of the many abbreviations and acronyms that are in use in the Construction Industry today. If we take one a month we have enough possibilities to keep the series going a long time.

For this month we'll talk about an outfit called Underwriters Laboratories Inc.

First of all let's spell it right. It used to be that there was an apostrophe s in Underwriters, but everybody was getting it confused, and so they changed the name of the Corporation to recognize everybody's inability to identify the possessive (Everybody that is, including this writer). So the recognized abbreviation for Underwriters Laboratories Inc. (no commas) is simply "UL".

And if you want to know what's going on at UL, you can request annually their "Index of Publications" from the UL Public Information Office, 207 East Ohio Street, Chicago, Illinois 60611.

The Author's reason for discussing UL first is because of the frequent habit of many specifiers to say "UL Approved". The data available from UL would demonstrate that UL "lists" and UL "classifies" and does not "approve". There is a charge for this. This program is administered by offices of Underwriters Laboratories Inc. throughout the country, and there is one in Portland. But don't try calling them about various technical aspects of their programs; they refer you to Headquarters in Illinois. What you probably want is contained in the Underwriters Laboratories Inc. Product Directories which are published annually. These Product Directories contain names of companies that have one or more products listed and classified by Underwriters Laboratories Inc. (UL) and does not mean that all their production is UL listed. If you ask UL for a recommendation of how to specify their listed materials, they say to require the product bear the listing mark of UL (the double circle with the letters UL trademark registered inside).

So remember the next time you see somebody specify "UL approved", you can chuckle and say "Ah-ha, I know something that he doesn't".

President's Column

by Ivan McCormick

(continued from page 1)

6 There is a place in this coordinating council report to list awards given at the Chapter region and Institute levels. We are very lax in this, particularly at the chapter level. I have asked our Awards Committee to develop for the Chapter's consideration a means of recognizing people for the work they have done. We all respond to praise. Incidentally, when was the last time you professionals took an industry member to lunch and said "thanks for your help on my project." Grab the check sometime and then sit back and enjoy the expression on the industry member's face.

treasurer's report

Fiscal year May 1, 1980 to April 30, 1981

Current Monthly Treasurer's Report for the period ending September 30, 1980 (5th month of the FY)

Cash	\$0.00
Checking Account	736.07
Savings Account	3,893.62
Accounts Receivable	1,000.00
(Estimated) Postal Permit #1737	114.89
Accounts Payable	0.00
NET ASSETS	\$5,744.58

tabletop displays

Reminder: The topic for November will be lath and plaster, and the deadline for making arrangements to include your display is November 5. CSI members only. Space is limited.

If interested, contact Stan Carper, 655-5115, or Betty Sherman, 231-5000, to discuss such details as table space and signs.

MOP — 1980 — what more changes?

by Lee Kilbourn, CSI, CCS

That's right, the Institute Technical Documents Committee has this year (1980) published a new edition of Volume 1 of the CSI Manual of Practice. This volume now consists of thirteen chapters. They all offer guidance on the relationship of the various Construction Contract Documents. They describe procedures and techniques for organizing, preparing and producing Construction Specifications. They discuss the modification of Architectural and Engineering Standard Forms of General Conditions for various project conditions and for conformance with the CSI format.

These chapters are available for purchase as the complete volume (\$52.00 Non-Member Price, \$32.00 Member Price or individual chapters can be purchased). Prices for individual Chapters are shown every month in the CSI NewsDigest which goes to all members direct from the Institute. Copies of the publications list are available at the Joint CSI-AIA Chapter Office in the Dekum Building. The Dekum Building offices also have a complete set of CSI documents available for review and perusal.

For the people who have a 1975 edition of Volume 1, the following commentary presents my opinion of the changes in the chapters.

MP-1-1, (you'll notice the chapters are renumbered and some of them are renamed) discusses Construction Documents and the Project Manual. It includes the material from the Old Chapter 1 and Chapter 2 of the 1975 Edition and updates and coordinates them with MasterFormat. It also gives three examples of outline or sample Formats for Project Manuals for Multiple Contract Construction and Negotiated Contracts.

MP-1-2 is titled Bidding Requirements. It contains as appendices the NSPE-ACE Standard Form of *Instructions to Bidders and Suggested Bid Form and Commentary for Use*. These documents are available separately from CSI in their 1978 editions, (the same as included in the document). There are some minor revisions to the text of this chapter from the previous edition, but the major difference is the addition of the appendices.

MP-1-3 is titled Types of Bidding and Contracts. This document has new sections on Design and Build Contracts, Construction

BS by KS

Basic Specs by Ken Seart

(continued from page 1)

you still had the benefit of associating with your counterparts, factory reps, and other fine people, often exchanging useful information and enjoying social activities together. On the other hand, when one attends a seminar costing some or lots of money, one needs specifics that meet individual needs. It is my opinion that many, if not most, seminars are geared to a wide range of information, including too many basics for a lot of people. I feel there should be more seminars that skip most basics and spend their time giving information on a higher technical level. Also, specifically, some of the seminar time should be spent giving actual problem examples and what to do about them. To accomplish this, advertising information regarding the seminar should have statements clearly indicating what level of information is being presented.

One last observation: Many seminars are overpriced. As a KS rule of thumb, if it costs more than seventy five dollars a day excluding meals and transportation, it is overpriced.

no minutes

Due to the lack of a quorum there was no action at the October 1st Board of Directors Meeting.

MP-1-13 Procurement Specifying is new —and pertinent too.

So then, to recap, the recommendation is to get Chapters 1, 2, 5, 6, 8 and 10 to supplement your 1975 edition. (Member price \$16.50 — enclose your check!) (Plus \$2.75 for MP-1-13). If you don't have a 1975 edition, then you shouldn't have read this in the first place, you should have filled out the Publications Order Form, enclosed a check and have it in the mail already.

Remember, these "Documents" are not cast in stone. If, after review and use, you have a comment, the Institute's address is there for firing it off. If "They" are too cold, send comments to Jess Wilkins, our Region Participating Member on Technical Documents Committee.

(please turn to page 4)

mop 1980 what, more changes?

by Lee Kilbourn, CSI, CCS

(continued from page 3)

Management and Project Management Contracts and a paragraph about Value Engineering and another about Quantity Surveying. For "simple" work, it would not be necessary to obtain a revised copy of this chapter.

MP-1-4 is titled The Agreement and is essentially identical to Chapter 5 of the 1975 edition.

MP-1-5 is titled Conditions of The Contract, and has been totally rewritten. The Supplementary Conditions which were included in the 1975 Edition both for AIA A201 and NSPE 1910-8 have been deleted in deference to the documents published by those professional organizations. Unfortunately, the Appendix on Insurance was retained without revision. Other discussion of insurance are widely available that are more appropriate, more comprehensive and more readable, in my opinion.

MP-1-6 discusses Division 1 General Requirements. This division has been given much thought since the writing of Chapter 7 for the 1975 edition of Volume 1 of The Manual of Practice. This chapter has been extensively revised to reflect that thought and is recommended.

MP-1-7 is titled Relating Drawings and Specifications, and there are no significant changes from the 1975 edition. There is some updating of titles and numbers but anybody with a copy of MasterFormat can figure that out very easily.

MP-1-8 is titled Changes to Bidding and Contract Documents. In the drastic revisions to this chapter, it has been substantially improved. It is now well coordinated with the other chapters in Volume 1 and it is recommended.

MP-1-9 Specification Writing and Production contains a few new paragraphs, a reference to SpecText but no data which a reader of *The Construction Specifier* and the *NewsDigest* would not otherwise pick up along the way.

MP-1-10 Specifications Language has been substantially amplified, and a substantial list of references has been added. Its use is sincerely recommended by everybody in town.

MP-1-11 is titled Methods of Specifying and MP-1-12 is titled Performance Specifications. These two chapters contain the data in a somewhat more organized manner than was presented in Chapter 11 of the 1975 edition. Unfortunately the clarity of writing style needs further development, so I would say that with a copy of the 1975 edition in hand, the 1980 edition is not necessary.

attention — Industry members

In response to many requests from material suppliers throughout the country who are faced with rising sales costs, the West Region Exhibits Committee provides the following informing regarding CSI Industry Product Exhibits planned to help you sell your products or systems to the design profession in California during Fiscal Year 1980-81.

california products shows

Orange County Chapter

Wednesday, March 4, 1981

Buena Park Hotel, Anaheim, California

CONTACT: Mike Geraghty
C. K. Varner Co
3026 Holiday
Santa Ana, CA 92705
(714) 540-1494

San Francisco Chapter/East Bay-Oakland Chapter

Wednesday, March 11, 1981

Civic Auditorium, San Francisco, California

CONTACT: Thomas T. May
Johns Manville
2600 Campus Drive
San Mateo, CA 94403
(415) 349-9500

San Diego Chapter

Wednesday, May 27, 1981

CONTACT: Dale Paterson
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OR: Sue Russell
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section format revised

The Technical Documents Committee in 1980 has published a revised edition of the Section Format, sub-titled "Three Part Section Format for Construction Specifications". It is a helpful revision of Chapter 6 of the CSI Manual of Practice, Volume 2, published in 1975. The explanations about what goes where are clearer, and there are some additions. For instance the term "Work Included" is now allowed a starter for Part 1 (although optional) and "Acceptable Manufacturers" is listed as an appropriate article title for Part 2 of the Specification section. The new booklet, although overpriced, is recommended for all users of Construction Specifications.

Los Angeles Chapter

Wednesday, April 22, 1981

Chalon Mart, Los Angeles, California

CONTACT: Chris Johnson
Sherman A. Johnson & Sons
P.O. Box 3127
So. El Monte, CA 91733
(213) 443-0156

Sacramento Chapter

Thursday, May 7, 1981

Cal Expo State Fairgrounds, Sacramento, CA

CONTACT: Jan McKinley
Schroeder Associates
555 Capitol Mall, Suite 777
Sacramento, CA 95814
(916) 441-1060
OR: Gene Cottrell
(916) 445-7014

Fresno Chapter

Tuesday, April 14, 1981

Sheraton Inn, Fresno, California

CONTACT: Ron Sidoli or Mickey Cochran
Western Building Materials
801 "R" Street
Fresno, CA 93777
(209) 266-9675

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doors, hardware and access security

On November 20th at the Willamette Center Theater, at 6:30 pm, the AIA-Producers Council Continuing Educations Program will be Doors and Hardware, and Access Security. It will offer indepth coverage of the components (frames, doors, hardware) involved in specifying a typical pedestrian opening and how these items interrelate to each other to meet present life safety, barrier free, and security codes. Through the use of lecture and audio/visual aids, the present state-of-the-art will be covered.

The program is designed to be particularly informative on the availability of hollow metal doors and frames and how they relate to function, design and codes. Design professionals will leave this program with the knowledge of how to prepare specifications that meet new code requirements and interface with other systems. Further, they will update their present knowledge and be exposed to recent design and code changes.

There is a \$6.00 fee for each seminar.

welding seminar

The Pacific Northwest Structural Welding Seminar on Welding Design and Workmanship, will be presented by the American Welding and Metallurgical Consulting Company on Friday, November 21st, from 8:30 am to 3:45 pm, at the Cosmopolitan Inn, at 6221 NE 82nd & Holman. Details and application form posted in CSI/AIA Office. Advance Registration, \$95.00, including lunch and morning snack.

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the predicator



volume 20, number 4 construction specifications institute, portland chapter

december, 1980

president's column

by Ivan McCormick

The **PREDICATOR** is our chapter vehicle for communicating with each other. Hopefully, some article will tickle or irritate you into responding, explaining your views. Apathy is deadly. A spec writer is a unique individual. We differ on many things. We agree on a few. We see problems and their solutions in different ways. The industry member sees them still differently. CSI's ability to bring us together to explain and discuss differences is one of its attributes. I would like to see the **PREDICATOR** have a *Letter to the Editor* column. A means whereby you, who are now reading this, can sound off. How about it? The vehicle is here for you to use.

My special thanks to the committee who revised our bylaws. I now have a document to direct me. We will all find this beneficial. (You can interpret that anyway you wish.) The committee did a tremendous job, spending many hours in the process. I was surprised that the only comment we received had to do with a typo. Is it a truly great document, or is it apathy?

The Northwest Regional Conference will be held in Anchorage February 19-21. The theme is *Cold Weather Construction*. We have eight chapter members going: Larry Brown, Dick Gira, Lee Kilborn, Bill Merritt, Ivan McCormick, Rod Moorman, Lee Seeley and Don Walton. If you plan to attend and your name is not listed, please call me. I also have information on a triangular flight to Hawaii for those who are interested.

searl honored

Ken Searl was given a Certificate of Award by the Door and Hardware Institute, for his entry in a recent Specifications Competition for the finish hardware schedule of the WEGROUP Science Complex, Central Oregon Community College.

december chapter meeting

DATE:
Tuesday, December 9, 1980

PLACE:
Mallory Hotel

TIME:
5:30 Social
6:30 Dinner
7:30 Program

COST:
\$10.00

RESERVATIONS:
Please call Janet Styner at the CSI Office before Monday noon, December 8th.

PROGRAM:
Guest speaker Dr. John Nastari will headline a special non-technical holiday program, planned to include spouses and guests. Dr. Nastari wears many hats — minister, violinist, city councilman, after-dinner speaker, and is presently Sales and Marketing Manager for A-1 Direct Marketing, Inc. of Portland. His topic — *Fiddling Around*. Some surprises, according to Ed Charles, Program Chairman, during the Social Hour, when there will be a demonstration of creative gift baskets for the holiday season by Beth Timm of Macadam Mercantile.

tabletop displays

Christmas decorations at the December meeting will be provided by Don Wright of the See Company.

Since the January program topic, Economic Forecast, does not lend itself to industry-related displays, we welcome your display which might not otherwise be covered this year.

A display should include handout literature and be accompanied by a knowledgeable person to answer questions. Space is limited. First-come, first-served. CSI members only.

If interested, contact Stan Carper, 655-5115, or Betty Sherman, 231-5000, to discuss your display.

BS by KS

Basic Specs by Ken Searl

Our chapter has been in existence for over twenty years and during this period our awards program has been a hit-and-miss operation, mostly miss. Not many awards have been issued over the years. In fact, some years our awards program might be considered a disaster area.

This year our chapter president, Ivan McCormick, asked me if I would head the awards program and I thought, "What the heck? That should be easy to do." Well, those words come under the heading of famous last words, because after investigating what was entailed in our awards activities, I immediately came to the conclusion that first of all we had to organize our confusion and come up with some guidelines. We now have compiled a list of awards, including one new one, *The Al Hansen Memorial Award*, honoring Al Hansen, who worked very hard both for the Northwest Plaster Bureau and the Portland CSI Chapter. This award is our highest and will be given only in exceptional cases. Following is a list of our chapter awards available:

1. *Chapter Certificate of Appreciation*: Awarded to an individual who has rendered distinguished service to the chapter in the advancement of the objectives of the institute or the chapter.
2. *Chapter Organizational Certificate of Appreciation*: Awarded to a firm or organization for distinguished accomplishments which promote the objectives of the institute or the chapter.
3. *Chapter Cooperation Award*: Awarded to a trade association, trade union, contractor association or professional association for exceptional liaison work with the chapter.
4. *Chapter President's Certificate*: Awarded by the chapter president, at the discretion of the president, for exceptional work performed in behalf of the chapter.
5. *Chapter Specification Proficiency Award*: Awarded to a professional member attaining special proficiency and outstanding stature as a practicing specification writer.
6. *Chapter Citation*: Awarded to an individual, firm or organization for some outstanding accomplishment in specification writing.

(please turn to page 3)

abbr.

By Lee Kilbourn

This month let's look at the National Fire Protection Association. NFPA is a nonprofit, educational, voluntary membership organization dedicated to the protection of lives and property from fire. Founded in 1896, the Association is international public advocate for firesafety.

NFPA serves through its fire protection codes and standards, technical assistance, and public education efforts. It takes stands on issues relating to public firesafety and provides information on fire prevention, fire-fighting procedures, and the fire loss experience. NFPA's membership approximates 32,000, including fire fighters, educators, businessmen, architects, engineers, and others who share an interest in firesafety. This diverse membership helps identify and address both public and private sector firesafety concerns.

The following NFPA Committees are planning to meet to begin preparation of their respective reports, and are now accepting proposals for recommendations on content of the documents listed below. Proposals received by the closing date indicated will be acted on by the Committee, and that action will be published in the Committee's Report. Proposals must be submitted to NFPA Vice President Richard E. Stevens on *Proposal Forms* (available from Mr. Stevens) at NFPA Headquarters, 470 Atlantic Avenue, Boston, Mass. 02210.

Chimneys & Heating Equipment

NFPA 89M-1976, Clearances for Heat Producing Appliances (open)

Fire Tests

NFPA 256-1976, Methods of Tests for Roof Coverings Oct. 1, 1980

NFPA 258-1976, Test Method for Measuring the Smoke Generated by Solid Materials Oct. 1, 1980

NFPA 259-1976, Test Method for Potential Heat of Building Materials Oct. 1, 1980

Firesafety Symbols

NFPA 173, Proposed Fire Protection Symbols for Graphic Displays (open)

Fixed Guideway Transit Systems

Proposed NFPA 130-1982, Fixed Guideway Transit Systems Jan. 23, 1981

Heights & Areas

NFPA 206M-1976, Building Areas and Heights (open)

Signaling System

NFPA 71-1977, Central Station Signaling Systems Jan. 23, 1981

Proposed NFPA 72G-1982, Audible & Visual Signaling Appliances for Protective Signaling Systems Jan. 23, 1981

Aviation

NFPA 403, Aircraft Rescue & Fire Fighting (open)

NFPA 406M-1975, Aircraft Rescue & Fire Fighting Techniques (open)

NFPA 408-1973, Aircraft Hand Fire Extinguishers (open)

NFPA 412-1974, Foam Fire Fighting Equipment on Aircraft Rescue & Fire Fighting Vehicles (open)

NFPA 419-1975, Airport Water Supply Systems Oct. 1, 1981

NFPA 422M, Aircraft Fire Investigators Manual (open)

Chemicals & Explosives

Proposed NFPA 43B, Code for Storage of Organic Peroxide Jan. 23, 1981

NFPA 44A-1974, Manufacture, Transportation, & Storage of Fireworks Jan. 23, 1981

NFPA 49-1975, Hazardous Chemicals Data Jan. 23, 1981

NFPA 491M-1975, Hazardous Chemical Reactions Jan. 23, 1981

NFPA 493-1978, Intrinsically Safe Process Control Equipment July 24, 1981

Dust Explosion Hazards

NFPA 61A-1973, Manufacturing & Handling of Starch Jan. 23, 1981

NFPA 61C-1973, Fire and Dust Explosion in Feed Mills Jan. 23, 1981

NFPA 61D-1973, Fire & Dust Explosions in the Milling of Agricultural Commodities for Human Consumption Jan. 23, 1981

NFPA 66-1973, Pneumatic Conveying Systems for Handling Feed, Flour, Grain and Other Agricultural Dusts .. Jan. 23, 1981

Electrical Safety Requirements for Employee Workplaces

NFPA 70E-1979, Electrical Safety Requirements for Employee Workplaces Jan. 23, 1981

Explosion Protection Systems

NFPA 68-1978, Explosion Venting July 24, 1981

NFPA 69-1978, Explosion Venting Systems July 24, 1981

Fire Service Professional Standards Development for Fire Fighter Qualifications

NFPA 1002, Fire Apparatus Driver Operator Professional Qualifications ... (open)

Fire Service Professional Standards Development for Fire Inspector & Investigator Qualifications

NFPA 1031-1977, Professional Qualifications for Fire Inspector, Fire Investigator and Fire Prevention Education Officer Jan. 23, 1981

Fire Service Professional Standards Development for Fire Officer Qualifications

NFPA 1021-1976, Fire Officer Professional Qualifications Jan. 23, 1981

Flammable Liquids

NFPA 36-1978, Solvent Extracting Plants (open)

Foam

NFPA 11-1978 (incorporating NFPA 11B-1977), Foam Extinguishing System (open)

Investigation of Fires of Electrical Origin

Proposed NFPA 907M-1982, Investigation of Fires of Electrical Origin Jan. 23, 1981

Liquefied Petroleum Gases

NFPA 58, Storage & Handling of Liquefied Petroleum Gases Oct. 31, 1980

NFPA 59, Storage & Handling of Liquefied Petroleum Gases at Utility Gas Plants Oct. 31, 1980

Mining Facilities

NFPA 120 (existing NFPA 653-1971), Coal Preparation Plants Jan. 23, 1981

Proposed NFPA 123-1982, Underground Coal Mines Jan. 23, 1981

Pest Control Operations

NFPA 57, Fumigation (open)

Pyrotechnics

NFPA 1123-1978, Public Display of Fireworks July 24, 1981

Suburban & Rural Fire Departments

NFPA 1231-1975, Water Supplies for Suburban and Rural Fire Fighting ... (open)

Water Spray Fixed Systems

NFPA 15-1979, Water Spray Fixed Systems for Fire Protection Dec. 19, 1980

council meeting minutes available

Don Walton has sent the local CSI chapter the complete minutes of the Northwest Coordinating Council meeting of October 17, 1980. They are available, on file at the CSI Chapter Office.

board of directors minutes

November 4, 1980

PRESENT McCormick, Moorman, Jones, Sampier, Seeley, Nelson, Gira, Kilbourn, Merritt, Arnold, Johnson, Styner

1 The minutes of the September 2, 1980 Board of Directors Meeting were reviewed and approved as published in the October **PREDICATOR**.

2 Treasurer's Report

Fiscal Year May 1, 1980 to April 30, 1981

Quarterly Treasurer's Report for period ending Oct 31, 1980 2nd quarter (Aug-Sept-Oct)

Cash	4.00
Checking Account.....	96.17
Savings Account	3,971.19
Accounts Receivable	852.00
Postal Permit #1737, Portland.....	265.83

Accounts Payable	0.00
------------------------	------

Net Assets	\$5,189.19
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3 Products Fair

Cristal Johnson reported on the progress of the 1981 Products Fair. The mailer to the exhibitors will be sent in about two weeks. Johnson presented a proposed layout for the flyer. Generally all is proceeding well.

4 Education:

Dick Gira reported that Portland had been awarded the four-day seminar on Specifications and Construction Contracts to be presented in Portland in 1982. No month has been confirmed at this time. Twenty-five people will need to attend.

5 Technical Documents

Larry Arnold discussed the progress of the Technical Document Committee. The subjects that are being pursued are all old assignments that need to be completed.

6 Programs

Ed Charles has planned a Christmas Season Dinner at the Mallory Hotel for the December Meeting. It will be held on December 9, 5:30 PM. Members, guests and spouses are invited.

7 Membership:

Lee Kilbourn reported that the Chapter currently had 212 active members.

It was suggested that we might entice members to bring legitimate prospective members to the Chapter Meetings by offering a free meal to those who bring two to a meeting.

Les Seeley moved; Dick Gira seconded that beginning in January 1981, any member that brings two *legitimate* prospective members to a Chapter Meeting will get their own dinner free. Passed unanimously.

8. 1983 Regional Meeting:

In planning the 1983 Regional Meeting to be held in Portland, there have been some alternate suggestions. 1) That a tri-regional meeting be held in Hawaii, or 2) that a joint regional with California be held in Honolulu.

The Chapter will have Don Eggleston, Secretary, write to the region to establish what has taken place in the planning.

10. Nominee for Regional Director:

The Portland Chapter needs to submit a name for Regional Director, to replace Paul Edlund. It must be a Professional Member of the Chapter. McCormick asked that the Board members be thinking of people to submit for that office.

The meeting was adjourned at 1:15 PM

Respectfully submitted,
Janet H. Styner, Recording Secretary

automatic sprinkler supervision

Contractors bidding on automatic sprinkler systems in jurisdictions governed by the 1979 Uniform Building Code are advised to become aware of the ramifications of Section 3802 sub C which states "Alarms, when serving more than 100 sprinklers, automatic sprinkler systems shall be supervised by an approved central proprietary or remote station service or local alarm which will give an audible signal at a constantly attended location".

Not only does the automatic sprinkler waterflow alarm be transmitted to the approved location, but also anything else that may effect the performance of the system adversely. The detailed requirements for automatic sprinkler supervision are contained in NFPA Standard 72A — 1979 edition in Section 3-5. Contractors are cautioned to become familiar with its requirements before bidding systems that have over 100 heads. Of particular importance is the local authority having jurisdiction requirements. For what they will accept as "a constantly attended location" for the receipt of the supervisory system.

From Charles Roth, Jr.
REC Newsletter
National Automatic Sprinkler
and Fire Control Assoc., Inc

BS by KS

Basic Specs by Ken Snarl

(continued from page 1)

- 7 *Chapter Education Award:* Awarded to an individual or organization that has made a significant contribution to the field of education in areas related to the purposes of the institute, or a significant contribution to the educational programs of the chapter or the institute.
- 8 *Chapter Technical Award:* Awarded to an individual, firm, or organization that has made a significant contribution to the technical program of the chapter or the institute.
- 9 *Special Awards:* The chapter president, and the board of the chapter, at their sole discretion, may present any special awards to promote the purposes of the institute or the chapter.
- 10 *Chapter Craftsmanship Award:* Awarded to an individual for superior craftsmanship with the purpose of recognizing and promoting such outstanding craftsmanship in the construction industry within the chapters' area.
- 11 *Chapter Past President Awards:* Awarded to retiring chapter presidents for their devoted and selfless contribution to the institute and their chapters while serving as chapter president.
- 12 *Al Hansen Memorial Award:* Awarded sparingly and with great deliberation to an individual for outstanding accomplishment in promoting the objectives of CSI or rendered outstanding service.

Please notice item no. 10 entitled *Chapter Craftsmanship Award*. We are looking for candidates for this award. If any of you nice folks know of anyone that fits this description or you feel is qualified for any of the other awards, please let us know. I believe our awards are normally given in May or June but special awards can be given any time.

One last item not related to this article or even CSI, but have you ever noticed the postal zip code used in Canada? An example is T5J 2X6. No one, not even a couple of Canadians have ever given me an explanation of just what that zip code means. Sure hope the Canadian mail carriers understand and if any one out there can explain it, let me know to satisfy my curiosity.

apologies

The November **Predicator** scrambled the order of Lee Kilbourn's story MOP-1980, interchanging a 13 for a 3. Apologies to Lee and his readers.

november chapter meeting

by Perky Kilbourn

The November meeting was presented by Dick Gira, CSI, of the Northwest Lath & Plaster Bureau, Inc. He was to begin the program by explaining the bureau activities but Cristal Johnson interrupted him with a suggestion that she do the explanation. She had heard Dick's slide-tape presentation often at the Eugene Home Show last spring, as her Product Booth was next to the booth of the Northwest Lath and Plaster Bureau. Cristal told us that the Northwest Plaster Bureau, Inc is a non-profit, non-proprietary firm whose purpose is to promote the Lath and Plaster industry. They visit architect's and engineer's offices, job sites and schools, publish technical literature, and communicate with people wanting to know about plaster.

After this very good introduction, Cristal handed the projector control to Dick who then continued the slide presentation. He showed exterior uses of stucco, which employs Portland Cement, and interior uses of plaster, with gypsum as its main cementitious ingredient.

We learned that plaster can be molded into many different shapes or applied to a flat surface with a textured finish. The exterior Portland Cement Plaster walls are composed of:

- 1 a structural element which is either wood, or metal framing, or concrete masonry units, or concrete
- 2 sheathing and building paper, if over stud construction
- 3 metal lath
- 4 Portland Cement Plaster
 - a. 3/8" thick scratch coat
 - b. 3/8" thick brown coat
 - c. 1/8" thick finish coat

Interior walls with veneer plaster use a special wallboard as their structural element. The joints are then taped with Fiberglass mesh and buttered, before the whole wall receives a covering of plaster.

There is a new product, Exterior Insulated Plaster System, which includes polystyrene insulation in a specially compounded stucco finish.

The Bureau has 142 members, distributed among contractors, labor organizations, manufacturers and dealers.

Earl McClintock, business agent of the Lathers Union for the State of Oregon, stressed the changes that have occurred in the lath and plaster industry in his 35 years of experience. One example is the change

of interior structural backing, from wood lath, to metal lath, to boards. He showed an example of metal lath.

Jack Ross, the business agent of Plasterers Local #82, then demonstrated the application of veneer plaster, showing base coat and two types of finishes, textural and smooth.

Dick Gira then called for volunteers and to show that it was easy to apply plaster, Les Seeley demonstrated. All in all an excellent and very educational program.

1981 willamette valley chapter meetings

The Willamette Valley Chapter, CSI, Program Calendar lists the following program events for 1981:

January 22, 1981

Moderator:
Gene Brockmeyer
345-3397

Program Title:
Economic Forecast for 1981

Description:
Joint Meeting CSI/AIA/WIC

Participants:
Kevin Kelly, USNB

February 26, 1981

Moderator:
Jim Balzhiser
686-8478

Program Title:
Geothermal and Alternative Energy

Description:
Geothermal Installations in Klamath County and Energy Conservations Utilizing Oil-Fired Boiler Conversion to Coal or Wood Pellets Joint CSI/AIA

March 26, 1981

Moderator:
Peter Thompson
484-0739

Program Title:
Landscaping and Specifications

Description:
Landscaping Design Layout and Specification

Participants:
Landscaping Subcontractors and Suppliers

April 30, 1981

Moderator:
Rich Maris
746-8231

Program Title:
Specifying for Historic Restoration and Preservation

Description:
Examples of Historic Building Projects and Specifying for Restoration/Preservation Joint AIA/CSI?

Participants:
Alfred Staehli, Portland
235-3515

May 28, 1981

Moderator:
Irene Trippett
484-0343

Program Title:
Competition Jury Panel

Description:
A presentation of the Spec Jury on General Comments and Reaction to Specifications

June 25, 1981

Moderator:

Program Title:
Bureaucracy Home and Abroad

Description:
Embassy Housing Project in Japan, A Saga of Bureaucracy in International Projects

Participants:
Otto Poticha

painting council to host CSI

The Oregon Council, Painting and Decorating Contractors of America, extends a cordial invitation to all AIA and CSI members to attend, as guests, a luncheon which will be held on Friday, January 23, 1981, at 12:30 P.M. in the Riverview Room of the Jantzen Beach Thunderbird.

John Salisbury, prominent KXL radio commentator, Portland, will be guest speaker.

Immediately following luncheon, all AIA and CSI members are also invited to view supplier and manufacturer exhibits, which will be located in the Thunderbird Ballroom, on the second floor.

To assure adequate luncheon seating, it is requested that you please call 775-1538, to signify the number of persons attending from your firm.

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(503) 672-8271

canadian visitor

John D'Haese, Architectural Consultant from BHC, Architects, Ltd of Edmonton, Alberta, attended the CSI October chapter meeting. He was accompanied by his brother-in-law, Kurt von Steiger, a Salem businessman.

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the predicator



volume 20, number 5 construction specifications institute, portland chapter

January, 1981

president's column

by Ivan McCormick

In rummaging through a file in my office I came across the following Gems of Wisdom, developed by the Portland Chapter in 1970. The ten years have not really outdated them.

Portland Chapter CSI Meeting of May 12, 1970 Specifications Language

I. THE THREE "C's" CLEAR, CORRECT AND CONCISE

CLEAR TO EVERYONE, INCLUDING WORKMEN

1. How do we know what is likely to be clear to workmen?

2. Is any test for this available?

3. Do we assume one basic level of ability to comprehend for everyone who is to read the specs — for all spec sections — for each of the three Parts of Sections (General, Products, Execution)?

CORRECT — BOTH TECHNICALLY AND GRAMMATICALLY

1. Grammar: What can be done for us at this late date? Not much! Try browsing in one of the pocket size handbooks that sell for about \$3.00, such as this one — ENGLISH HANDBOOK by Bailey & Horn.

CONCISE — SOME METHODS FOR PRODUCING A CONCISE SPEC

1. Streamlining — by outlining — works very well for PRODUCTS. Part of specifications, and anywhere lists are needed.

2. Simplified Spelling — Gage (Gauge), Molding (Moulding), Calk (Caulk), Thru (Through). Be consistent in this!

3. Omitting — Omit prepositional phrases which are not necessary thus:

For "without the written permission of the Contractor" — Use "without the Contractor's written permission"

For "top of the platform" — use "platform top"

(please turn to page 2)

January chapter meeting

DATE:
Tuesday, January 13, 1981

PLACE:
Mallory Hotel

TIME
5:30 Social
6:30 Dinner
7:30 Program

COST:
\$8.00

RESERVATIONS:
Please call Janet Styner at the CSI Office, 223-8231, before Monday noon, January 12th

PROGRAM:
January is the time for an annual financial prognostication, so Louis Scherzer, Executive Vice-President of Benj. Franklin Savings and Loan Association, and Chairman of the Portland Development Commission will speak on *The Economic Outlook for 1981*, emphasizing the Portland scene, and the Portland Development Commission's role in Portland's planning.

membership drive

A free dinner will be given to the CSI member who brings two prospective new members to any monthly meeting, beginning January, 1981. To qualify for the free dinner, your guests must be "legitimate" prospects — someone you have called and encouraged yourself — not someone who has already expressed an interest in the CSI to membership Chairman Lee Kilbourn.

If you have two prospects and wish to qualify for a dinner on the house, tell Janet about it when you make your reservations so that it can be arranged in advance.

Bring those prospective members to the January meeting!

BS by KS

Basic Specs by Ken Seert

As some of you know, Lee Kilbourn of our chapter has been referred to as Mr. CSI. Well, now, it seems we have another Mr. CSI on the industry membership side. Please note card ad on page 5 of the December issue of **THE PREDICATOR** regarding our own Hunt Jones. Hunt recently formed a firm dealing in commercial window coverings named *TWELVE FIVE HUNDRED*, or *12500*, as the card indicates. If you will note, *12500* is the number assigned under CSI and CSC's Masterformat for window treatment. I've heard from an unlisted source that Hunt really gives windows the treatment. Best of luck, Hunt, with your new operation. Oh yes, for the Canadian readers of this article, please note I included CSC. For you local doubting Thomases, yes, **THE PREDICATOR** is read in Canada.

At this time I am going to throw in some information regarding my involvement with CSI. Some of you may call it trivia or some may call it true *BS by KS*, but here goes. I measured the files just related to CSI correspondence sent out of this office and they measure 9 centimeters thick. This may not be a record, but it does point out behind every serious *BS'er* there is always a lot of paper.

Now to get down to more serious business regarding some specification items. I will address this discussion primarily to specification writers. As you know, most specifications are usually prepared by so-called cut and paste, or written from a master specification usually with multiple choice selection, or with computerized equipment, usually a word processor. In all three methods there is one important item that often times gets overlooked, and that is that there are phrases or material types listed from one specification to the next. This information should be reviewed and updated to current conditions. For instance, years ago in our lath and plaster specifications, under our list of approved or acceptable manufacturers, I continued to list one firm as a supplier of metal studs three years after they had gone out of business. Well, finally some kind subcontractor pointed this out and was my face red, to say the least. Another thing is to always be on the lookout for an item which has been revised by an

(please turn to page 3)

president's column

by Ivan McCormick

(continued from page 1)

For "within the time limits recommended by the manufacturer" — use "within the manufacturer's recommended time limit"

For "in accord with article 6 of the General Conditions." — use "in accord with General Conditions, Article 6"

4. Omitting definite article (THE) and indefinite articles (A & AN).

Now to the tense part! Mood too. Imperative mood indicates a *command*

II TENSE & MOOD THE KEY TO CLARITY, GRAMMATICAL CORRECTNESS, AND TO CONCISENESS

If you don't remember grammatical terms for these different tense and moods, don't worry about it. It isn't necessary to recognize them by name to benefit from this part of the discussion.

Poor. 1. EMPHATIC FUTURE TENSE

"Contractor shall install lighting fixtures which will be furnished by the Owner"

Generally, when a sentence begins with "Contractor shall . . .", you have already "had it", as far as being concise is concerned.

Somewhat Better. 2. SIMPLE IMPERATIVE MOOD

"Install lighting fixtures which will be furnished by Owner."

This sentence is also in the active voice, as it is assumed that this command is directed to the contractor.

Poor. 3. SIMPLE FUTURE TENSE

"Install lighting fixtures to be furnished by Owner"

Notice that this sentence is the same as the preceding one, No. 2. The first improvement brought it to the imperative mood. Do it now.

Still Better. 4. SIMPLE PRESENT INFINITIVE

"Install lighting fixtures to be furnished by Owner."

We now have changed the tense from future (will be) to the present (to be). The sentence is also in the imperative mood, as it is still a command to the contractor

SO NOW WE HAVE WHAT WE ARE AF I E H — PRESENT TENSE AND IMPERATIVE MOOD

Now if you really want to cut this 8 word sentence down to size, try this

"Install lighting fixtures furnished by Owner."

Six (6) words

"Install Owner-furnished lighting fixtures."

Five (5) words

The sentence in No. 1 has 12 words and says no more than the last example. By reducing the number of words, there is less chance for error in grammar.

IV VOICE THE USE OF THE ACTIVE VOICE INSTEAD OF THE PASSIVE VOICE WILL USUALLY SAVE WORDS

The *active voice* shows the subject as the actor.

The *passive voice* shows the subject as the receiver of the action.

Poor. 1. All frames shall be filled solid with grout.

Better. 2. Fill all frames solid with grout.

Best. 3. Fill frames solid with grout

OR

Poor. 4. Edge strips at thresholds shall be of white metal for vinyl tile carpet by the Owner. (Passive Voice)

Good. 5. Provide white metal edge strips at thresholds for vinyl tile and carpet. (Active Voice)

OR

Poor. 6. All carpets, pads and nail strips are by the Owner. (Passive Voice)

Good. 7. Owner will furnish all carpets, pads, and nail strips. (Active)

IV USE OF PRONOUNS

Avoid *it*. (It is a pronoun here.) Also avoid "said" and "same".

V TROUBLESOME WORDS

1. *SHALL* is what the contractor is to do.

2. *WILL* is what the owner and architect are to do. How come the contractor shall do, but the owner and architect will do? Why the difference? See AIA General Conditions, Article 3, Owner, which states that things the owner is required to do, under the terms of the contract, are things "The Owner shall . . . (do).

3. *ANY* implies a choice by the reader of the specs as to quantity. At any rate, that is what CSI Doc No 005 states. "Repair any cracks." is said to have one meaning and "Repair all cracks." another meaning. Maybe so. Anyway, don't use the word any for anything. OK.

4. *ALL* is usually not necessary. "Store all millwork under shelter" "Store millwork under shelter"

5. *AND/OR* is considered by some to be a stilted legal expression and/or otherwise unacceptable. Examples given to show how to avoid the use of *and/or* seem to take a lot more words. Sometimes the word *both* can be substituted for *and/or*.

6. "*Is to be*" is to be avoided. Sounds like maybe someone, not you, is to do something at some other time. Lacks compulsion. "Adhesive is to be spread with a notched trowel." "Spread adhesive with notched trowel."

7. "*Comply with*" is another baddy, so say the authorities. Quote "When reference is made to a standard, it is better to state that the execution of work or the material shall meet the requirements of" or "shall be in accordance with" than to state "it shall comply with" the standard. "Why is this better? The writers never bother to explain this one. "Comply" — means "To act in accordance with wishes, requests, commands, requirements, etc." "Comply with the law" is often used in legal documents, and most people know what that means. "Meet the requirements of" has a lot more character spaces on the page than "Comply with".

8. Contractor-Subcontractor: It is argued that no mention of a sub be made in specs, as the contract is between the owner and a prime contractor. Incorrect. "The roofing contractor shall install all sheet metal." Incorrect. "The tile contractor shall examine surfaces for defects." "This style is incorrect because it violates the intent of the contract, undermines the proper chain of command, and invites disputes over authority and responsibility for compliance with specifications."

VI. 1. TROUBLESOME PHRASES

1. "Furnish and install" if the work being referred to is not to be just furnished or just installed, then use the word *PROVIDE*. Provide will ordinarily put the sentence in the present tense and the imperative mood.

2. "As the Architect may direct" or "to the satisfaction of the Architect" Generally condemned as never to be used. When used in regard to the steps to be taken to correct work that is so unacceptable as to require the decision of the architect, then why not "as the architect may direct"? Why wouldn't major corrections have to be accomplished "to the satisfaction of the Architect"? Stains on marble could be taken care of either by providing new marble or by removal "to the satisfaction of the Architect."

3. "A workmanlike job" and "first class in every respect", etc., are, by now, surely not acceptable to any of us.

VII. PUNCTUATION

H. Griffin Edwards, F.A.I.A. and author of

(please turn to page 3)

president's column

by Ivan McCormick

(continued from page 2)

"Specifications" writes, and this is cited by Harold Rosen in his book "Principles of Specification Writing". "All sentences and clauses should be written carefully to permit punctuation marks to be added, eliminated or misplaced without changing the meaning. Use as few punctuation marks as possible, particularly commas." How do we do this? This would pretty well reduce spec writing to the use of nothing much more than a lot of simple sentences, with or without a period. Correctly, commas go where the English books say they should. Do we have a choice in this? Perhaps the choice is to stick to simple sentences.

VIII READABILITY — MONOTONY

This area is loaded with contradictions in texts on spec writing. Short, simple sentences are encouraged. Monotonous writing is discouraged. Omitting prepositional phrases, definite articles (the), indefinite articles (a & an), etc., is encouraged. Say it in your own words is encouraged, along with "all you need is to stop being stuffy and talk (write) like a human being."

Who reads so much of specs at any one time as to find them monotonous? Who says things such as "Apply oil paint with brush to walls"? What human being would say "Paired doors require astragals as in code or details"?

More likely we would say "All pairs of doors shall be provided with astragals when these are required by code or when they are shown in details." This isn't very stuffy, but it isn't a workmanlike job of spec writing either.

Well, take it for what it is worth, some food for thought.

CSI seminar offered

The Willamette Valley Chapter of the Construction Specifications Institute is hosting a two-day CSI Professional Development Seminar entitled "Specification Writing for Mechanical and Electrical Engineers", March 6 and 7, 1981, in Eugene, Oregon.

The cost of the seminar will be \$190.00 for CSI members and \$215.00 for non-members. Contact the Portland Chapter CSI office for registration information.

new system

Researchers at the Commerce Department's National Bureau of Standards (NBS) have developed a new method for specifying the structural strength requirements of buildings regardless of the construction materials used.

With this new system of probability-based load factors and load combinations, the design loads for a building can be related specifically to required levels of reliability against structural failure or unserviceability. Consequently, the new system could alter current building codes and structural designs developed in the future.

Currently, building codes specify minimum structural requirements according to materials used; different load and resistance factors — or different allowable stresses — are required for different materials. This diversity has complicated the building design process, especially in designs calling for a mix of construction materials.

With the new load criterion, developed under the supervision of Dr. Bruce Ellingwood, a structural engineer at the NBS Center for Building Technology, a unified design approach is used where-by the structural loads for design of a building can be calculated regardless of the materials used, whether they be wood, masonry, steel, concrete or other material. This approach is called "Probabilistic limit states design" — a design technique allowing the accurate estimation of conditions where a structure fails to achieve its intended purpose in some manner (collapse, excessive deflection).

This new, unified design approach should result in a more rational and consistent framework for standards writers to use with fewer subjective decisions. This is especially important for innovative structural materials and schemes where there is little experience upon which to base design criteria.

It should also simplify the designer's task in analyzing building loads. Rather than performing a separate load analysis for each material used in a particular structure, designers would only need to carry out a single analysis.

Ellingwood says that future standards — and the codes based on them — which incorporate the new calculation technique would be less likely to lead to overly conservative safety provisions in buildings. Provisions that are inadequate from a safety point of view could also be avoided more easily through use of the new load criterion.

BS by KS

Basic Specs by Ken Searl

(continued from page 1)

addendum. Be sure it gets changed in your future specifications so it doesn't keep showing up and making one look foolish. When a project is completed the specification writer should go through the addenda and all observation reports and revise the guide specifications, whether they are cut and paste, word processing, or what-have-you. I sometimes think the last is our type of specification. We don't cut and paste, and we don't word-process. I guess you could call ours the Xerox Method. Incidentally, to you older-timers, just how in the heck did we ever run an office years ago without a duplicating machine? We used to think we were living high on the hog if our mimeograph machine was power driven. In fact, that is how I got started in this business. When I was a young fellow one of my first jobs was to operate a hand-cranked mimeograph machine. Luckily, it was automatic inking.

One last item: our chapter is still looking for nominees for chapter awards.

The new load criterion is under review by the American National Standard Committee A 58. Comments from design professionals will also be solicited and evaluated. If adopted, the new loads calculation method would become a part of the national ANSI A 58 Standard, which defines the amount of dead (structural), live (moveable), wind, snow and earthquake loads suitable for inclusion in the thousands of building codes and other regulatory documents.

The research is detailed in a recent NBS publication, Development of a Probability Based Load Criterion for American National Standard A 58 (SP 577). Assisting Ellingwood in the project were Theodore V. Galambos of Washington University, St. Louis, MO; James G. MacGregor, of the University of Alberta; and C. Allin Cornell of the Massachusetts Institute of Technology, Cambridge, MA.

Single copies of the 228-page report are available for \$6.00 from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. Order by Stock No. 003-003-02200-4.

board of directors minutes

December 9, 1980

PRESENT Jerry Eaker, Dick Gira, Hunt Jones, Stan Nelson, Ivan McCormick, Rod Moorman, Ken Searl, Lee Kilbourn, Bill Merritt, Cristal Johnson, Janet Styner.

1 The minutes of the November 4, 1980 Board of Directors meeting were approved as published in **THE PREDICATOR**.

2 Stan Nelson presented the Treasurer's Report for the period ending November 30, 1980

Current Monthly Treasurer's Report for period ending November 30, 1980 (7th month of fiscal year)

Cash	0.00
Checking Account	538.58
Savings Account	3,371.91
Accounts Receivable	852.00
Postal Permit #1737	216.10

Accounts Payable (181.03)

NET ASSETS \$4,797.56

Nelson reported that letters are being sent to accounts receivable

3 Regional Events

Regional Directors, Bill Mincks and Paul Edlund, have asked the Chapter to consider the location of the Regional meeting to be hosted by the Portland Chapter in April of 1983 or 1984 (Date not clear according to correspondence) They feel that conferences held in a metropolitan area do not draw attendance as well as those held in resort areas.

Stan Nelson moved that the CSI Northwest Regional Conference be held in metropolitan Portland in April of 1983 Jerry Eaker seconded the motion.

Discussion followed

Stan Nelson amended his previous motion to read " be held within 25 miles of Portland "

After continued discussion, Nelson withdrew his motion

Bill Merritt moved that the Portland Chapter

reaffirm to the Regional Directors that Portland is a perfectly acceptable location to hold a Regional Conference Dick Gira seconded the motion Motion carried.

Tri-Regional Conference in Hawaii:

McCormick opened discussion concerning the proposed Tri-Regional Conference to be held in Hawaii in October 1982

Jerry Eaker moved that the Northwest Region participate in the Tri-Regional Conference in Hawaii.

The motion died for lack of a second

Rod Moorman moved that the Portland Chapter respond to the regional directors stating that we feel the Tri-Regional Conference is inadvisable in Hawaii Bill Merritt seconded the motion Motion carried

The members of the Board felt that a Tri-Regional Conference is a good proposal if held on the mainland.

4. Products Fair

Cristal Johnson reported on the Products Fair Johnson feels that the Portland Chapter CSI should host a hospitality evening following the close of the Products Fair on Wednesday evening, April 15 No official action was taken, although the Board did support the proposal

5 Membership

Lee Kilbourn suggested that a card requesting current address, employer, telephone, and other information be sent to all CSI members to facilitate the updating of the roster

It was suggested that a current copy of the Chapter Bylaws be sent with the mailing

Kilbourn will pursue a format for the information card.

6 Miscellaneous:

A Bill Merritt stated that he was interested in pursuing an August discussion concerning **THE PREDICATOR** and the production costs

B Dick Gira would like the Board to discuss a policy concerning non-profit and charitable groups acquiring space at the Products Fair The subject will be discussed at the January 6 board meeting

The meeting was adjourned at 1 15 P.M.

Respectfully submitted,
Don Eggleston, Secretary
Janet Styner, Recording Secretary

thanks

On Wednesday, November 12th, a seminar entitled "Historic Preservation Technology" was conducted by Al Staehli, a member of our chapter, and sponsored by the Education Committee.

The program was held in the CSI offices in the Dekum Building from 4 p.m. to 8 p.m. In addition to the three hour technical session, a wine and "deli" supper was enjoyed by the 20 people attending

Thanks to not only Mr Staehli, but also to Tom Benz, Seminar Coordinator, who made the arrangements for this education experience

Dick Gira, CSI
Education Chairman

announcements

United States Steel Corporation states that they will no longer market Cor-Ten steel for architectural uses Most applications have performed well but a few installations improperly detailed or unpainted on the back side appear to be causing concern.

The last in a series, HEAT RECOVERY AND STORAGE SYSTEMS, is designed to look at solutions for conservation with the ever-increasing cost of energy today This program offers the design professional, through panel and audio/visual presentation, the criteria for the selection of buildings as candidates for these systems. It further explains heat recovery equipment and its application along with the types of storage systems.

March 25, 1981 6:30 P.M.
WILLAMETTE CENTER THEATER
121 SW Salmon Street
Portland, Oregon 97204

Please make checks payable to THE PORTLAND CHAPTER AIA and mail to 200 Dekum Building, 519 SW Third Avenue, Portland, Oregon 97204.

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FLASH..FLASH..FLASH...!!!

On January 15, the cost for Products Fair booths will go up \$15 per booth. Sign up now, as booths are going fast.

The Portland Chapter CSI Roster is in the process of being updated. Now is the time to join if you are not currently a member, or to change any incorrect information in the Roster, i.e. address or yellow page classification. Call Janet.

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James F. King
President

the predicator



volume 20, number 6 construction specifications institute, portland chapter

february, 1981

president's column

by Ivan McCormick

Believing that honesty and integrity high ideals and concern for the welfare of the construction industry are desirable and necessary, and in a sincere effort to promote the Institute, members of CSI pledge themselves to the following

CODE OF ETHICS
The Construction Specifications Institute

Believing that honesty and integrity, high ideals and concern for the welfare of the construction industry are both desirable and necessary and in a sincere effort to promote the objectives of the Institute, members of CSI pledge themselves to:

1. Establish and maintain high standards of professional conduct.
2. Freely interchange information and experience with members of the construction community.
3. Maintain confidentiality of privileged information.
4. Avoid conflicts of interest.
5. Avoid misrepresentation of products and services.
6. Promote improvement of construction communications, techniques and procedures.

(please turn to page 2)

membership drive

A free dinner will be given to the CSI member who brings two prospective new members to any monthly meeting. To qualify for the free dinner, your guests must be "legitimate" prospects — someone you have called and encouraged yourself — not someone who has already expressed an interest in the CSI to membership Chairman Lee Kilbourn.

If you have two prospects and wish to qualify for a dinner on the house, tell Janet about it when you make your reservations so that it can be arranged in advance

Bring those prospective members to the next meeting

february chapter meeting

DATE
Tuesday, February 10, 1981

PLACE
Mallory Hotel

TIME
5:30 Social
6:30 Dinner
7:30 Program

COST
\$8.00

RESERVATIONS:
Please call Janet Styner at the CSI Office, 223-8231, before Monday noon, February 9th.

PROGRAM SPEAKER:
William Billings
Industry Consultant
Masonry Institute of Oregon/Ceramic Tile Institute of Oregon with assistance of a Masonry and Tile Industry Panel.

The program will discuss uses of ceramic tile and masonry, with clarification of some commonly used or 'mis-used' terms. How to use the tile technical data book to select and specify proper ceramic tile installations will be included with copies of the book available. Specification guides for masonry units, mortars and construction details will also be covered.

A slide show of masonry and ceramic tile installations and a discussion of the role masonry and ceramic tile play in passive solar design will lead into the closing question and answer period.

There will be displays from local distributors as well as the Masonry Institute of Oregon/Ceramic Tile Institute of Oregon.

A hosted cocktail hour will be provided by the Masonry Institute of Oregon/Ceramic Tile Institute of Oregon

BS by KS

Basic Specs by Ken Searl

In the October-December issue of *CONCEPTS* magazine Bob Vansant's column entitled *Vansant's Law*, discusses differing site conditions, and his closing statement reads: "While most differing site condition situations result in a claim by the contractor for additional costs, theoretically the contract price should be reduced if the conditions encountered result in reduced costs." AIA General Conditions cover differing site conditions under Article 12.2, "concealed conditions", which in effect authorizes payment for concealed or unknown conditions, which is no more than fair, but nowhere is any mention made of any credit to the owner if encountered conditions are actually less costly than expected. You will note Vansant used the word "theoretically". As you know, a contractor's vocabulary does not normally include the word "credit". Sort of like the word "discrepancy" is not in the architect's or engineer's vocabulary.

(please turn to page 2)

treasurer's report

Fiscal Year May 1, 1980 to April 30, 1981
Current Monthly Treasurer's Report for period ending December 31, 1980 (8th month of fiscal year)

Cash	8.34
Checking Account	927.67
Savings Account	1,871.91
Accounts Receivable	852.00
Postal Permit #1737	166.03
Accounts Payable	0.00
NET ASSETS	\$3,825.95

tabletop displays

CSI members who are also members of the Masonry and Tile Institute of Oregon are invited to display their products. The deadline for making arrangements is February 5th. To discuss table space at the February 10th meeting call Stan Carper, 655-5115 or Betty Sherman, 231-5000.

abbr.

by Lee Kilbourn

ICBO stands for the International Conference of Building Officials, a nonprofit service organization owned and controlled by its member cities, counties and states. The Conference's aims and purposes are:

- Publication, maintenance and promotion of the Uniform Building Code and its related documents
- Investigation and research of principles underlying safety to life and property in the construction, use and location of buildings and related structures.
- Development and promulgation of uniformity in regulations pertaining to building construction
- Education of the building official.
- Formulation of guidelines for the administration of building inspection departments.

The founding purpose of the International Conference of Building Officials in 1922 was the development of a code that all communities could accept and enforce. This goal was realized in 1927 with the publication of the Uniform Building Code. Immediately adopted by its supporters, the code has spread throughout 44 of the 50 states as well as the territories of many of the Pacific and Caribbean Islands. It has been translated into Portuguese, Spanish and Japanese, it became the state code of El Salvador, and it served as a basis for the National Codes of Japan and Brazil. Adopted by the Atomic Energy Commission, it also became the design basis for the Tri-Services Manual for the Army, Navy and Air Force. Thus, ICBO has become international through the acceptance of the Uniform Building Code.

solar center

Western Solar Utilization Network (Western SUN) one of the four Regional Solar Energy Centers funded by the U.S. Department of Energy to further public awareness and commercialization of solar energy is seeking active participation from members of the Portland CSI Chapter in the development of a Passive Products Directory. Western SUN wishes to work closely with CSI to develop specifications that are compatible with the CSI Manuals. Western Sun's office headquarters are located here in Portland, if you are interested in participating, please contact: Debbi Allen, Western SUN, 221-4953

CSI seminar

A two-day CSI Professional Development Seminar, SPECIFICATION WRITING FOR MECHANICAL AND ELECTRICAL ENGINEERS, will be held in Eugene, March 6th and 7th, at the Valley River Inn.

This seminar focuses on writing and coordinating specifications and how they relate to the construction contract. Participants will be introduced to the CSI specification aids and formats and learn up-to-date techniques and procedures of specification writing for the mechanical and electrical engineer. In addition, participants will learn conditions of the construction contract and preparation of the Project Manual.

REGISTRATION INFORMATION

DAILY SCHEDULE: 8:30 a.m.-4:30 p.m.

HOTEL ACCOMMODATIONS:

For the convenience of non-commuting participants, a number of guest rooms have been reserved at the Program hotels. Please make room reservations directly with the hotel as soon as possible! For preferred treatment, mention the CSI Program when making your reservation. Accommodation reservations must be made at least 15 days prior to program date to assure availability.

CONTINUING EDUCATION UNITS:

Each participant will be offered the opportunity to register at the Program for Continuing Education Units (C.E.U.'s).

REGISTRATION FEES:

CSI member	\$190.00
Non-CSI member	\$215.00

Registration fees include coffee/cold drink breaks, lunches, individual participant notebooks, reference materials and supplies. Confirmed registrations cancelled later than five (5) days before the program are subject to a 10% service charge.

TAX DEDUCTION may be allowed for educational expenses (registration fees, travel, meals, lodging) undertaken to maintain and improve professional skills (Treas. Reg. 1.162-5 Coughlin vs. Commissioner 230F 2d 307)

TO REGISTER:

Please complete the registration form and mail at least ten (10) days prior to the Program to:

Manager, Education Programs
The Construction Specifications Institute
Suite 300, 1150 17th Street, N.W.
Washington, D.C. 20036

Confirmation of your registration will include a housing form for you to complete and return directly to the Program hotel if housing is needed. Your registration should be confirmed prior to attending the Program.

If you have not received a registration form, a copy is available in the CSI office.

january chapter meeting

by Perky Kilbourn

Portland Chapter CSI started the year off with a financial prognostication from Louis Scherzer, Executive Vice-President of Benj. Franklin Savings and Loan Association and past Chairman of the Portland Development Commission. His topic was "The Economic Outlook for 1981" but his presentation was really an informal discussion of current trends in the banking business.

Scherzer felt 1981 will be a tough year because of the National Debt, and banking deregulation. The United States has a very

low savings rate because of inflation and the double taxation system. People are taxed once when they earn money and if they save any money, they are taxed a second time on the interest they earn on their savings. Thus people tend to save by creating tax shelters, rather than saving money in banks or savings and loan associations.

Benj. Franklin Savings and Loan Association has a lot of its money tied up in 10, 20 and 30-year home mortgages at low interest rates (6-10%). Because of high interest rates now (18-20%) Benj. Franklin is not making very many loans for home mortgages, which leaves the State Veterans Home Loan Program as the major home financing institution. The State Veterans Home Loan Program is able to give mortgages because the State General Fund (please turn to page 3)

president's column

by Ivan McCormick

(continued from page 1)

This is the Code for the CSI. I had read it before, when I became a member several years ago. At that time I "put it on the shelf", with the thought that it was appropriate. Two weeks ago I had an occasion to re-read it after a visitor left my office.

We are all aware of the problems in the housing field. This has prompted some tradesmen to seek entry into the commercial field. The visitor who had left my office was such a tradesman. He was interested in getting established with our office and plying his trade on our projects.

He implied that his company had a policy of returning 5% of a bid to the architect. I was speechless, and questioned what he had said. He repeated the 5% kickback offer. The visit was finished.

According to the news such despicable practices are commonplace. There is no way CSI members can condone this and live up to the fourth covenant of our Code of Ethics, nor the first.

We welcome tradesmen of high principles and skill to our projects. The others — NO WAY!

AIA-PC programs continuing ED

The last in a series, HEAT RECOVERY AND STORAGE SYSTEMS, is designed to look at solutions for conservation with the ever-increasing cost of energy today. This program offers the design professional, through panel and audio/visual presentation, the criteria for the selection of buildings as candidates for these systems. It further explains heat recovery equipment and its application along with the types of storage systems.

March 25, 1981 6:30 P.M.
WILLAMETTE CENTER THEATER
121 S.W. Salmon Street
Portland, Oregon 97204

Please make checks payable to THE PORTLAND CHAPTER AIA and mail to 200 Dekum Building, 519 S.W. Third Avenue, Portland, Oregon 97204.

letter to the president re letters to the editor

Dear Ivan,

While Editor of the Northwest Region Award Winning 1978 **PREDICATOR** (thanks to the hard-working awards committee) I had a LETTERS TO THE EDITOR column — with *very little* response. I mean, I had to print letters addressed to Lee Kilbourn or Ken Searl or Janet and pretend that they were letters to the editor. Really!

So let this be the first, or second? of many for this year's publication. And while some of you are still reading I meant to plead, as Archivist, for pictures, clippings and newsworthy articles of member's activities. For months I have been bringing our scrap book (started by Mary Alice Hutchins) and last meeting I even took it out of its box. Look for it next month on the name-tag table and you will see what I need. News about *you* and other members (not out of **THE PREDICATOR**) that will show what's been going on in the Portland Chapter — behind the scenes, even.

Margie Sargent, Archivist

P.S. Anchorage in February should almost equal Timberline and April for Wind and Wisdom. See you there?

january chapter meeting

by Parky Kilbourn

(continued from page 2)

subsidizes the process of getting home mortgages. Oregon has used its bonded indebtedness to stay solvent and thus its bonds aren't given the best ratings.

The speaker sees continuing high cost of money, not necessarily because of the Arab oil situation, but because of our national debt increases. The biggest portion of our Gross National Product is going for interest on the national debt. Savings and loan associations are putting their money in short-term investments rather than long-term mortgages because of the high cost of money. In a period of years, the savings and loan associations will become like banks — "demand" rather than "time" institutions. Deregulation will cause merging of banks with the result that by 1990 there will probably be about 15 banks, with branches around the United States.

BS by KS

basic specs by Ken Searl

(continued from page 1)

It would seem to me under supplementary conditions the following could be inserted: "Paragraph 12.2 concealed conditions, subparagraph 12.2.1, amplify as follows: Should concealed conditions encountered in the performance of the work below the surface of the ground or should concealed or unknown conditions in an existing structure be at variance with the conditions indicated by the contract documents, but it develops said conditions result in a construction cost savings, contractor shall present said savings in written change order request form to the owner, resulting in a reduction of contract cost. If penalty clause is involved include reduction of appropriate days saved."

Now before you contractors out there form a vigilante committee and gallop off after old Ken for a hanging party, just whoa, this article is a fantasy! As you know, I live in Salem and drive daily to Portland so I have to keep my mind occupied. (Drinking while driving along a freeway is a no-no.) The boys in the gas station where I buy gas refer to me as The Terror of Interstate 5, now you know why.

Sherzer concluded the question-and-answer period of his talk by assuring us that VISA and other bank cards are here to stay and that savings and loan associations will probably not be charging for this service, as many banks are now. All in all a very thought-provoking evening.

The first tabletop display to arrive was presented by Lamin-Art, a division of Eagle Picher Industries, Inc. The Regional Sales Manager, Laura Baxter, CSI, was present with her guests, Ed Selin, General Manager of Brower Co., distributor of Lamin-Art for the Northwest, and Bruce Phipps, Sales Representative. Laura joined CSI last fall. Dieter Franck of Portland, a manufacturer of store displays, cooperated in preparing the tabletop display of Lamin-Art's newest colors.

The second tabletop display was that of Herman Ford, CSI, Branch Manager for the Dallas Ceramic Company. He presented al-Tile's new line of Ceramic Mosaic Tile Samples and brochures are now available — he's in your old Portland Chapter Roster.

Good Turnout!

TDC mini-report from dallas

Chairman Robert McManus submitted the following report from the Technical Documents Committee Meeting held in Dallas on December 6th and 7th, 1980:

- 1.0 Progress reports were given regarding evaluation of Division 1 comments from the memberships and on MASTERFORMAT revision scheduled for 1983 publication in a 5-year up-date increment.

A Division 1 Evaluation of written serious objections of some specifiers over the existing MASTERFORMAT Division 1 Narrowscope listing of Section Number Titles. Changes proposed by the objectors included formation of a sub-committee to study and recommend relocation of existing Sections in other Divisions, and combining Narrowscope Sections into Broadscope Sections. Action by TDC referred the matter to the MASTERFORMAT revision sub-committee who will consider any proposed Section rearrangement or title and number changes for the 1983 revised publication of MASTERFORMAT.

- 3 MASTERFORMAT revisions include first meeting between Construction Specifications Canada and TDC in April, 1980. At that time, a Task Force will be selected to include representatives of Federal Agencies, professional societies, and other elements of the construction industry to serve on this committee through the subsequent 18 months.

- 2.0 *Manual of Practice, Volume 2 (New Editions)*

A. MP 2-3, *Page Format: ready for printing.*

B. MP 2-4, *Civil Engineering Applications: final draft approved, publication early 1981.*

C. MP 2-5, *Mechanical and Electrical Engineering Applications: final draft approved, publication early 1981.*

D. MP 2-6, *Performance Specifying Format: ready for printing.*

E. MP 2-7, *Operation and Maintenance Manual Format: final draft approved, publication early 1981.*

F. MP-6, *Preparing and Using an Office Master Specification: final draft stage.*

- 3.0 *Technical Aid Series has reached about 40 percent of its production goal for 1980. Participating Members will be coordinating additional effort to complete the task of providing adequate back-up documentation for SPECTEXT with the TAS program. TAS Documents will be sold individually after February, 1981 rather than in packages to increase flexibility for Members or outside organizations who wish to purchase selected documents.*

- 4.0 *Robert Johnson, Chairman of SPECTEXT Committee appeared before TDC and presented an up-date of his committee activities including a discussion of the expansion and up-date/revision requirements of the documents. Also discussed with TDC was coordination between the two committees with relation to various documents programs including SPECTEXT.*

an editorial

Reprinted from January, 1981, CODE SCOOP, State of Oregon, Department of Commerce, Building Codes Division, 401 Labor & Industries Building, Salem, Oregon 97310, Phone 378-3818.

Several days after the MGM Grand Hotel fire in Las Vegas, the League of Oregon Cities met in Portland at the Marriot Hotel. During the afternoon meeting on Tuesday, a localized fire alarm sounded in the hotel basement. This localized alarm sounded in several conference rooms, including the room in which the Oregon State Building Officials Association was meeting. The Building Officials dutifully exited the building. Meanwhile, those people in the larger, adjacent and more heavily populated room continued with their program ignoring the alarm.

In this case, it was a nuisance alarm. But what if there had been a fire? Even with the sensitivity of the previous hotel fire, people were still not willing to act on an alarm. Must people smell smoke and see flame before they will move?

This observed condition of human nature raises questions about the value of the expensive electronic warning systems now required by most modern codes, but even more it questions the human engineering of modern man to perceive danger and take action upon that perception.

canadian consulate show

The Canadian Consulate General and Canadian contract furniture manufacturers will present a Furniture and Design Exhibition at the Neighbors of Woodcraft Hall, 1410 Southwest Morrison, in Portland on February 19th and 20th. The Consulate represents Canadian manufacturers in marketing in the states of Washington, Oregon, Idaho, Western Montana and Alaska. Because of the large amount of new commercial construction in Portland this city was chosen as the site for the 1981 exhibits.

Designers, architects and specifiers are invited to attend the exhibit, which includes computer furniture, flexible office systems, knocked-down office furniture, and custom boardroom facilities.

Look for your invitation. For additional information, call the Trade Office at the Canadian Consulate General in Seattle, (206) 447-3800.

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James F. King
President

The Portland Chapter CSI Roster is in the process of being updated. Now is the time to join if you are not currently a member, or to change any incorrect information in the Roster, i.e. address or yellow page classification. Call Janet.

the predicator

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the predicator



volume 20, number 7 construction specifications institute, portland chapter

march, 1981

march chapter meeting

Hardware and Doors is the topic of a joint meeting between the Portland Chapter CSI and the Oregon Chapter, Door and Hardware Institute.

DATE

Tuesday, March 10, 1981

PLACE

Henry Ford's Restaurant
9689 S.W. Barbur Blvd.

TIME

6:00 Social
7:00 Dinner
8:00 Program

COST

\$12.00

RESERVATIONS

It is necessary to have reservations at this meeting! Dinner will be \$12.00 per person if you have made your reservation. If you arrive at Henry Ford's without reservations, they may not be able to serve you. You will be charged \$14.00 for a late reservation, if there are any spaces available call Janet Styner at the CSI Office, 223-8231, before Monday noon, March 9

PROGRAM:

"Hollow Metal: Stock, Stock Standard and Custom"

A panel of members of the Oregon Chapter, Door and Hardware Institute will present a discussion concerning the industry interpretation of specifications and bidding practices.

Remember that spouses and guests are always welcome at our meetings.

tabletop displays

The topic for the May meeting will be Solar Design. If you are interested in displaying your products, contact Stan Carper, 655-5115, or Betty Sherman, 231-5000, to discuss table space. These displays are limited to CSI Members

president's column

by Ivan McCormick

One advantage in writing a column is that you can say just about what you please. At least up till now no one has challenged what I have written.

This month I'll concern myself with some of my "why is it"s.

Why Is It Some Salesmen Do Not Identify Themselves.

There was once a "salesman" who called on me. We spent maybe 15 minutes talking. I don't know his name. He never told me. I don't know which company he was representing. He never mentioned it in our conversation. We talked in such broad terms that his company's name was not important - at least not to him. That "salesman" has never been back.

Most salesmen have their black books in which they have the name of the spec writer for the firm they are visiting. They can call me by name because they have just looked it up. However, I am supposed to remember their name since the last visit; even if it was four or five months ago.

Turnabout is fair play. I enjoy going to our conventions and turning the table on these salesmen. For there, I can stand back, recall his name and then approach him calling him by name. Do it some time. See how fast he diverts his eyes to your name tag. Ah... sweet revenge.

If I greet you salesmen by name, I know who you are. I do not wish to offend you. Please don't take it personally that I cannot remember or have instant recall of the names of every person who sees me.

Why Is It Some Manufacturers Do Not Update Their Catalogs

We have a limited shelf space for manufacturer's catalogs in our office. There is no room for books that are not or cannot be used. I date-stamp every manufacturer's catalog and give it a library signout card. When I need more shelf space, those catalogs which have not been updated or checked out get tossed. If a manufacturer goes to the expense of printing these gems, it would seem that they would keep them current.

(please turn to page 2)

BS by KS

Basic Specs by Ken Searl

For those of you who do business with The Oregon State Board of Higher Education you may have noticed they have issued a new *Construction Management Handbook*, dated 1980.

This manual is a guide for architects/engineers and specifiers in the preparation of the project manual including specifications and working drawings. It defines areas of responsibilities for architects, engineers and owners. Included are guides for construction documents, bidding procedures, construction, copies of general conditions, wage rates, prequalifications, bid bond, performance bond and all that other good stuff. (Incidentally, they are keeping them up to date. As new ones are published they send them out; I like this.)

It is a very well prepared handbook and the man behind all this is Robert Fritsch, a long-time CSI member originally of the Portland Chapter and for many years a member of the Willamette Valley Chapter in Eugene.

I hereby congratulate Bob for a fine job in the production of this handbook. There are many things indigenous only to the State Board of Higher Education but there are many items that apply to any type of construction documents and methods. Among things covered which can apply to any project are items covering addenda, pre-bid conference, bid opening, award administration, job administration, payments, etc. There is even some advice on "horse trading" (I wonder if they had me in mind when they wrote that.)

I do wish they would refer to "clerk of the works" as "inspector" and there may be a few other items I could be picky about, but in general this is a great handbook. If you have one, read it, if you don't, borrow one or request one from the Department of Higher Education, because believe me, it will be worth your time to read this handbook.

Thank you, Bob, and all your helpers

president's column

by Ivan McCormick

(continued from page 1)

Why Is It Some Members Will Not Make Reservations for Chapter Meeting Dinners
Our Chapter meetings are preceded with dinner. We are required to confirm reservations 24 hours in advance. In January, we had 14 "walk-ins", in December, 10 and November 6. The restaurant can accommodate a 10% increase without disruption to the kitchen and serving staff. Why is it some members will not phone in their dinner reservations? The Board has requested, starting at the March 1981 Chapter meeting, that we add a \$2.00 additional cost to those without reservations. The reservation list is compiled by Janet at the Chapter office. If your name is not on the list, you don't have a reservation. It only takes a phone call.

code tips

by Ken Searl

On December 30, 1980, the Oregon State Fire Marshal issued a letter to all deputy fire marshals and Building Codes Division staff listing the subject matter as follows: "Section 1718 of the 1979 Edition of the State of Oregon Structural Specialty Code and Fire and Life Safety Code." It appears that most code-enforcing agencies are not addressing the flame spread properties of the vapor barriers on insulation when installed in an exposed condition within a regulated building. Apparently most code-enforcing officials are assuming Rockwool or Fiberglass insulation non-combustible and not considering the vapor barrier on the insulation.

As I understand this situation, if insulation is completely enclosed in a wall with a non-rated vapor barrier it is okay, but if any insulation with a vapor barrier or cover is located in an exposed position such as an attic or crawl space, then it must meet a flame spread requirement of not to exceed 25 and a smoke density not to exceed 450 when tested in accordance with U.B.C. Standard 42-1.

I suggest you read Section 1718 of the 1979 U.B.C. and revise your specifications accordingly. I have one comment to make (now really, did you expect old Ken not to make at least one comment?), and that is the flame spread rating of 25 sounds good but I worry more about smoke contributed and 450 just sounds too high. There is at least one company that manufactures a product of this type that has a flame spread of 25, fuel contributed 50, and a smoke developed 50, which sure sounds better. I won't tell you their name but it is believed their initials are OCF.

kilbourn's continued krax

The Masonry Bunch did a fine, if somewhat short, job the other night at the February chapter meeting. I would ask the Program Committee to recommend programs from say, 7:30 to 9:10, rather than the 45-minute program with 10 minutes of questions. It's nice, though, to have the speaker stop when arriving at the end.

They emphasized a paragraph from ASTM A-270 (see Perky's story elsewhere in this issue). If the assembled throng had been looking at a copy, we'd have read the previous paragraphs, which read:

1.1.1 *Property Specifications* in which the acceptability of the mortar is based on the properties of the ingredients (materials) and the properties (water retention and compressive strength) of samples of the mortar mixed and tested in the laboratory (Sections 3 to 8, 11 and 12).

1.1.2 *Proportion Specifications* in which the acceptability of the mortar is based on the properties of the ingredients (materials), the proportions of these ingredients, and the water retention of samples of the mortar mixed and tested in the laboratory (Sections 3, 4 and 9 to 12).

Note — the last 6 words of each — what if not tested? Sounds to me, for a small job, it should *not* be referenced.

Best Wishes

Lee Kilbourn

board of directors meeting

February 3, 1981

PRESENT: Les Seeley, Ivan McCormick, Stan Nelson, Rod Moorman, Ken Searl, Bill Merritt, Lee Kilbourn, Janet Styner

1. Dick Gira, Education Committee Chairman, is planning a CSI Short Course for 1982. No exact date has been chosen for the course.

2. Hunt Jones is concerned about the "walk-in" traffic at the Chapter Meetings. Jones proposes that all reservations for dinner will pay the current \$8.00 per meal — any "walk-ins" will pay an additional \$2.00 per meal, or \$10.00. There will be a limit of 60 people at each meeting.

3. The next Board Meeting will be held on Tuesday, March 3, 12:00 noon in the CSI Office.

4. Rod Moorman asked the Board to make a decision on the Regional Meeting to be held in Portland in 1983. After discussion by the Board it was decided that the sites available for 1983 should be investigated.

Ivan McCormick requested that Moorman make a report to the Board in April as to the possibilities for 1983.

Meeting adjourned at 1:20 PM.

Respectfully submitted,

Janet Styner, Recording Secretary

february chapter meeting

by perky kilbourn

The February Portland Chapter CSI meeting was an educational meeting presented by the Masonry and Ceramic Tile Institute of Oregon. William Billings, Industry Consultant for the Masonry and Ceramic Tile Institute of Oregon, began the program by introducing those members of the Masonry and Ceramic Tile Institute of Oregon who were present: Tom Young, CSI Executive Director of the Masonry and Ceramic Tile Institute of Oregon, Dave Seitzinger, President of Mason Contractors Association of America, Portland Chapter and associated with Dave's Masonry; Bill Belanger, representing the Bricklayers and Allied Craftsmen Local No. 1 of Oregon; Charlie Phelps, representing the Bricklayers, Tilersetters and Allied Craftsmen Local No. 1 of Oregon; Dexter L. Walter, CSI, of Mutual Materials; Stan Carper, CSI, of Empire Building Materials; Don Tabor, CSI, Interpace; Pat Murphy, CSI, Western Block Inc.; Don Schonert, of Don P. Schonert Co., representing the Marble, Terrazzo and Tile Contractor's Association; and Tom Hammer, Pumilite Building Materials.

William Billings gave a slide show of various uses of bricks and tile. He explained the purpose of the Masonry and Ceramic Tile Institute of Oregon, which is to provide individual counseling on problems with masonry and ceramic tile, to present programs such as this one, to disseminate technical literature, to maintain current technical library on construction techniques and material code revisions, to work with code bodies, and to sponsor programs to enhance the relationship between the masonry and ceramic tile industry and the design profession.

(please turn to page 3)

february chapter meeting

by Perky Kilbourn

(continued from page 2)

The Masonry and Ceramic Tile Institute of Oregon also gives biennially The Hamurabi Award in recognition of design excellence, and publishes a newsletter and other publications, including one on sun and masonry, a passive solar brochure.

Ceramic tile is defined in the annual *Handbook for Ceramic Tile Installation*, which includes a section on "How to use the Handbook when writing a Specification". The book has specification guides, including installation numbers and references to ANSI standards for different types of installations.

In discussing mortar, Billings emphasized that specifications should state either proportion or property, but not both, because they sometimes are in conflict. That is, you cannot obtain the property you desire with the proportions given in the specification ASTM C 270 1.2 states.

Unless data are presented to show that the mortar meets the requirements of the property specifications, the proportion specifications shall govern. Mortar shall be accepted under only one set of specifications.

For Specifications of Concrete Masonry Units, the main items to be covered in the specification are the ASTM references for 1) the concrete masonry units and 2) the aggregate type utilized.

If special-shaped bricks are to be used it is a good idea to specify the design of the mold for the bricks so you can get the bricks you want.

Cleaning of bricks and ceramic tile is not always required, and if not necessary to clean, it should not be done.

Paver tile, brick pavers and quarry tile are not the same and whether they are thin set or set in mortar depends on their end use.

Masonry units have a high thermal storage capacity and are used for passive solar storage. The Masonry and Ceramic Tile Institute is developing a solar energy design manual like the structural design manual so that design professionals can understand how to achieve optimal results for their clients.

Billings then commended Ivan McCormick for his February *president's column*, and stressed that quality specifications should be prepared and should be enforced with quality workmanship on the basis of the specification.

During the Question and Answer Period, it was noted that in using masonry walls, you are allowed to double the R value for the walls. A question on cleaning was presented, and the statement was made that as efflorescence is only aggravated by applying chemicals to brick masonry, it might be best to leave it alone. A suggestion was made to call the Masonry and Ceramic Tile Institute and let them explain to the client the attributes of masonry.

It was an excellent meeting, with about 70 persons being present. Ivan McCormick advised that reservations will have to be limited to 60. Without a reservation no dinner can be served unless a \$2.00 surcharge is added.

The Table Top Display was from members of the Masonry and Ceramic Tile Institute, with numerous brochures on masonry and ceramic tile available.

abbr.

by Leo F. Kilbourn, CSI, CCS

The American Society for Testing and Materials (ASTM) is a non-profit organization that provides a management system in which producers, users, ultimate consumers, and representatives of government and academia develop technical information in the published form of agreed-upon documents called "voluntary consensus standards".

These standards — test methods, specifications, definitions, practices, and classifications — are written by those having expertise in specific areas, who choose voluntarily, to work within the ASTM system. Current membership is over 29,000 organizations and individuals, with a total unit participation of well over 79,000 in 138 technical committees.

In addition to the 6,400 standards contained in the 48-part *Annual Book of ASTM Standards*, ASTM also provides numerous other technical publications which have evolved from committee activities. An index by subject and by number of those 6,400 standards is published annually in November. This year's issue is \$12.00.

Remember, it is not American Society for Testing Materials anymore. They added the "and" and I think it is clearer.

From the American Society for Testing and Materials 1980 Annual Book of ASTM Standards

1980 Annual Book of ASTM Standards

The 1980 Annual Book of ASTM Standards consists of 48 parts, of which this part

is one. It contains all currently formally approved ASTM standard specifications, test methods, classifications, definitions, and practices, and related material such as proposals. These terms are defined as follows:

standard — a specification, test method, definition, classification, or practice that has been approved by the sponsoring committee and adopted by the Society in accordance with the procedures established in the Regulations Governing ASTM Technical Committees. ASTM standards may also take other forms such as guidelines, charts, tolerances, tables, and reference photographs.

specification — a form of standard that is a precise statement of a set of requirements to be satisfied by a material, product, system, or service, indicating, whenever appropriate, the procedure by means of which it may be determined whether the requirements given are satisfied. As far as practicable, it is desirable that the requirements be expressed numerically in terms of appropriate units together with their limits.

test method — a form of standard that covers sampling and describes the subsequent testing procedures used in determining the properties, composition, or performance for materials, products, systems, or services that may be specified. A test method shall not include the kind of numerical limits for the properties, composition, or performance that should normally be included in a specification.

classification — a form of standard that defines a systematic arrangement or division of materials, products, systems, or services, into groups based on similar characteristics such as origin, composition, properties, or use.

definition — a form of standard that comprises one or more terms with explanation of its meaning as applied to materials, products, systems, services, and methods within the scopes of technical committees.

practice — a form of standard that is a procedure, guide, or service which may or may not be auxiliary to a test method or a specification. Examples of such include selection, preparation, application, inspection, necessary precautions for use or disposal, installation, maintenance, and operation of testing apparatus.

emergency standard — a document published by the Society to meet a demand for more rapid issuance of a standard where such action is deemed necessary by the Executive Subcommittee of a committee and concurred in by the Committee on

(please turn to page 6)

Portland Chapter Construction Specifications Institute

7th Annual Products Fair

EXHIBIT SPACE RESERVATION AND CONTRACT

CSI Products Fair • April 15-16, 1981
Portland Memorial Coliseum, Convention Hall
Portland, Oregon

(Please type or print)

1 Firm _____

Mailing Address _____

City _____ State _____ Zip _____

Phone Number _____

By _____ Title _____

2 EXHIBIT SPACE REQUESTED
We request the following space number(s) in our order of preference (See floor plan on reverse) in accord with stated terms and conditions.

1st Choice _____ **2nd Choice** _____ **3rd Choice** _____

4th Choice _____ **5th Choice** _____ **6th Choice** _____
(If choices are not available, CSI will make every effort to assign a satisfactory alternate location.)

Booth Name (on sign) _____

3 EXHIBIT INFORMATION
Product to be exhibited _____

Motel rooms. How many? _____

Product demonstration: Yes, I will need demo time in center demo area.
Prizes: Yes, I will award a prize at my booth.

Note: We will publicize in our mailings exhibitors wishing to donate prizes to be awarded at their booth or demonstrating products in demo area. So let us know your plans and provide us with a detailed description.

Sign and send this request to: **Portland Chapter
The Construction Specifications Institute**
200 Dekum Bldg., 519 SW Third Ave., Portland, Oregon 97204

A copy will be returned to you upon acceptance and space assignment. (Total space charge will be due and payable no later than January 15, 1981. Space reserved after January 15 will be \$250 and will be due and payable no later than March 1, 1981.)

Signature _____

Date _____

Kawneer
 KAWNEER COMPANY, INC.
 Rm. 200, 1125 S.E. Madison St.
 Portland, OR 97214
 (503) 234-0281

Tom E. Clucas
 Architectural Sales Representative

MADDER
 DISTRIBUTORS
 BUILDING PRODUCTS

Madden Construction Supply Co., Inc.
 2750 N. W. 31st AVENUE
 PORTLAND, OREGON 97210

THOMAS E. SHEA
 MANAGER
 Office 224-1790
 Res. 760-6433



SEE
 DESIGN AND PRODUCTION, INC.

ARCHITECTURAL / STRUCTURES
 SIGNAGE

DON WRIGHT SEE DESIGN & PRODUCTION
 222 N W DAVIS SUITE 405
 PORTLAND, OREGON 97209
 503/241-0891 1-800/547-9167

COHAN COURT & SPORT
 SURFACES • EQUIPMENT • LIGHTING • SEATING

AMES COHAN
 President

18075 S W LOWER BOONES FERRY RD., TUALATIN OR 97062
 (503) 620-6854

FLINTILE
 MADELINE BIGGS
 President

Wholesale flooring distributor representing
 AZROCK • FLEXCO • W W HENRY • FUTURUS • ETC
 3150 N W 31st Ave. Portland Oregon 97210 • phone (503) 222-9067

PRODINAT

Ken Peterson
 Vice-President

Manufacturers
 Portland, Oregon / Office: 244-7512

Res.: 639-0174

6775 S.W. 111th Avenue
 Beaverton, Oregon 97005
 MFNW - 503 - 643-9491
 ITI - 503 - 643-9480

Modernfold Northwest Inc.
Interior Technology, Inc.

Warren C. Koepke

Todd Building Company TBC

Gordon T. Todd, Manager, Portland Division

Portland Office
 9414 S W Barber Blvd / P.O. Box 19265 / Portland, OR 97219
 (503) 245-1355

Headquarters
 3099 N.E. Diamond Lake Blvd / P.O. Box 180 / Roseburg, OR 97470
 (503) 672-6271

12 500
 commercial window coverings

Hunt Jones CSI
 Telephone (503) 653-7489

P.O. BOX 68392 • Oakgrove, OR 97268

MASCO

NICHOLAS MERRIMAN

MASONS SUPPLY COMPANY
 Phone 234-4321
 Oregon Wats 800-452-8659 2637 S.E. 12th Avenue
 Out of State Wats 800-547-8851 Portland, Oregon 97202

Uniq Distributing Company, Inc.
 "Tile Merchant to the Northwest"

3435 S.E. 17th Avenue
 Portland, Oregon 97202
 (503) 231-4959

KENNETH J. TRINKLEIN-CSI
 Vice President/Sales

William J. Billings
 Industry Consultant

Masonry Institute of Oregon

Ceramic Tile Institute of Oregon

3609 S.W. Corbett, Suite 4, Portland, Oregon 97201 503/224-1940

afcc
 Associated Floor Covering Contractors

JERRY VAN SCOY, CSI
 Executive Director

330 S.E. 82nd Avenue
 Portland Oregon 97216
 Phone (503) 254-6548

GRATING SPECIALTIES

PHONE PORTLAND (503) 223-4059
 1 800-547 2151
 OUTSIDE OREGON SALEM (503) 363-9267

JOHN W. ROBERTSON (Sales Manager)
 JIM KELSO (Sales Eng.)
 KEN CHAPPELL (Sales Rep)
 JERRY RITNER (Inside Sales Eng.)
 3575 25TH STREET S.E. SALEM OREGON 97302
 A Division of Macfact Co

membership drive

A free dinner will be given to the CSI member who brings two prospective new members to any monthly meeting. To qualify for the free dinner, your guests must be "legitimate" prospects — someone you have called and encouraged yourself — not someone who has already expressed an interest in the CSI to membership Chairman Lee Kilbourn

If you have two prospects and wish to qualify for a dinner on the house, tell Janet about it when you make your reservations so that it can be arranged in advance

Bring those prospective members to the next meeting.

SNYDER ROOFING and Sheet Metal, Inc.

S

P.O. Box 23819
 12650 S.W. Hall Blvd.
 Tigard, Oregon 97223
 503/620-5252

James F. King
 President

abbr.

by Lee Kilbourn

(continued from page 3)

Standards. Emergency standards are not consensus documents because they are not submitted for Society ballot.

proposal — a preliminary standard that has been approved by the sponsoring committee for publication as information only. There is no Society letter ballot on proposals and no designation is assigned.

A new edition of the Book of Standards is issued annually. Each part contains all actions accepted by the Society at least six months before the issue date. Later actions are included wherever this is possible without delaying the appearance of the part. In addition, a list of new and revised standards received too late for processing is appended to the end of each table of contents just before going to press. Most current standards as well as new and revised items accepted by the Society between the annual appearances of any given part are made available as separate reprints. The 1980 edition of the Book of Standards com-

prises over 48,000 pages and includes over 6000 ASTM standards and tentatives.

The Index to ASTM Standards has been undergoing a complete modernization and restructuring during the past five years. This has been done on a part-by-part basis, and now Part 48, the combined Index, for the first time reflects this progressive step.

Purpose and Use of ASTM Standards

An ASTM standard represents a common viewpoint of those parties concerned with its provisions, namely, producers, users, and general interest groups. It is intended to aid industry, government agencies, and the general public. The use of an ASTM standard is purely voluntary. It is recognized that, for certain work or in certain regions, ASTM specifications may be either more or less restrictive than needed. The existence of an ASTM standard does not preclude anyone from manufacturing, marketing, or purchasing products, or using products, processes, or procedures not conforming to the standard. Because ASTM standards are subject

to periodic review and revision, those who use them are cautioned to obtain the latest revision.

Consideration of Comments on ASTM Standards

An ASTM standard is subject to revision at any time by the responsible technical committee and must be reviewed every five years and if not revised, either reapproved or withdrawn. Your comments are invited either for revision of any standard or for additional standards and should be addressed to ASTM Headquarters. Your comments will receive careful consideration at a meeting of the responsible technical committee, which you may attend. If you feel that your comments have not received a fair hearing you should make your views known to the ASTM Committee on Standards, 1916 Race St., Philadelphia, Pa. 19103, which will schedule a further hearing regarding your comments. Failing satisfaction there, you may appeal to the ASTM Board of Directors.

the predicator

200 Dekum Building
519 Southwest Third Avenue
Portland, Oregon 97204
503/223-8231

address correction requested

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

Dated Material

Robert R. Klas, Architect
12795 S W Evergreen Street
Beaverton, OR 97005

abbr.

by Lee Kilbourn

(continued from page 3)

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volume 20, number 8 construction specifications institute, portland chapter

april, 1981

1981 products fair in april

The Seventh Annual Construction Specifications Institute Products Fair is scheduled for April 15th and 16th at the Portland Memorial Coliseum. Fair hours, both days, will be from 10 am to 7 pm.

"The Northwest Region's oldest and most successful building trade show has an excellent reputation as a prime source of technical material," says Cristal Johnson, who is chairing the 1981 Products Fair. She explains the Fair opens the door to effective communication between manufacturers and design professionals, and urges all CSI members to participate.

The Fair is not a "home show" promoting material to the general public, but geared to the technical market. There will be a product demonstration area this year, and five awards will be presented — three for the best booth displays and two for the best trade association demonstration, which will be judged on simulating an application as it is related to the respective CSI division, section and part.

A seminar, **INSURANCE FOR THE BUILDING INDUSTRY**, will be offered at the Fair. Pre-registration for the seminar will be required. See insert in this issue of **THE PREDICATOR**.

There will be complimentary lunch and beverage at the Fair. Present your invitation at the door, to be stamped, then redeem a complimentary cocktail after 3:00 PM.

Parking is \$1.50 or \$2.00 for an all-day pass.

Come and see the products first hand — the Fair will provide new ideas, develop leads, and provide a meeting place for the market representatives.

chapter to meet at products fair

There will be a short Chapter business session, with no-host cocktails, on April 15th at 7 p.m. in the CSI Hospitality Room at the Coliseum, to hear the report of the CSI Nominating Committee.

Please plan to be present at this time for business as well as pleasure.

president's column

by Ivan McCormick

I have received the following letter from the Jacksonville, Florida Chapter CSI. This is passed on for your information. You will be asked soon to vote on the due-setting process. You should be informed.

The views expressed are those of the Jacksonville Chapter, and do not necessarily represent my own. The Portland Chapter has not taken a stand.

TO: *President, CSI Chapters*

FROM: *Jacksonville Chapter, CSI*

DATE: *March 10, 1981*

SUBJECT: *Proposed Bylaw Change to Due-Setting Process*

The February, 1981 CSI National Board Meeting approved for voting by the membership, a bylaw change giving the Board authority to establish the national dues instead of the membership approving any proposed changes.

The Jacksonville Chapter, CSI urges a negative vote on this proposed bylaw change, thus retaining the dues setting authority with the membership.

The enclosed summary of how well the National CSI Board is "managing the affairs of the Institute" suggests they do not need more responsibility — YET! Maybe soon — but not yet!

We of the Jacksonville Chapter feel this is an important matter and ask that you might share this letter with the other members of your chapter.

*HOWARD H. HUMBURG, AIA/CSI
President, Jacksonville Chapter*

Subject: *Bylaws Amendment*

From: *Jacksonville Chapter, CSI*

Southeast Region Director Jerry Gohs informs us that at the February Board meeting it approved a recommendation that the membership vote to amend the Bylaws to transfer the dues-setting authority from the members to 2/3 of the Board. (Article XIV, Section 2, a.) This is the same concept that was recommended by the Board in 1976 and rejected by the membership.

(please turn to page 2)

BS by KS

Basic Specs by Ken Searl

You may have noticed a new column in **The Predicator** entitled *Code Tips* by you-know-who. If any of you have any good tips pass them on to me for publication. I am particularly interested in items that have become trouble makers because they are not being publicized in the right places. Readers who are in the code enforcement business, please pass along any jewels that you feel need more attention. A well-informed bunch of specifiers, owners and contractors should be of great benefit.

I want to plug this year's Portland Chapter CSI 7th Annual Products Fair on April 15-16 from 10:00 A.M. to 7:00 P.M. at Memorial Coliseum Convention Hall in Portland. It is believed this year will be our greatest products Fair to date. There will be over a hundred display booths with several Canadian manufacturers in attendance. Please give this event your consideration and attend if at all possible. This is an official invitation, by golly!

As you know, chapter awards time is coming up so if you know of anyone deserving of an award contact either our chapter president, Ivan McCormick, or me, and it will receive consideration.

I have a couple of items for contractors before they start a project. One is, verify if the owner carries vandalism and malicious mischief insurance for the project and if so, how much is the deductible. If the deductible is over \$500 it won't be too much help to the contractor because most of the claims are less than \$500. Also, verify what fire insurance is carried by owner and in what amounts. It is recommended that all items of verification be on forms from the owner's insurance carrier.

Finally, in closing, please remember everyone who has become a member of the CSI has joined, among other reasons, to become more knowledgeable in matters pertaining to specifications, materials and construction. It works two ways: ask not what CSI can do for you, but what you can do for CSI. It seems to me I have heard a similar statement made by someone else.

abbr.

by Lee Kilbourn

another in the continuing series of the Education Committee of the Portland Chapter CSI, to explain abbreviations of various standard making organizations.

This month, as a result of the March Portland Chapter CSI meeting, we should discuss SDI and NAAMM.

The Steel Door Institute was formed by six manufacturers of steel doors and frames in 1953, with a goal to promote the use of what we now call stock doors and frames as manufactured by these firms. Through this effort they have (1) established commercial standards for products of their industry, (2) established standards for mounting heights for finish hardware, (3) established some standard nomenclature for steel doors and frames, and (4) published a variety of literature intended to assist the design professional in their use of what we call stock steel doors and frames. The Steel Door Institute is located at 2130 Keith Building, Cleveland, Ohio, 44115.

The National Association of Architecture Metal Manufacturers is located at Suite 2026, 221 North LaSalle Street, Chicago, Illinois, 60601. There are several divisions of NAAMM. The Division's products we discussed at the March, Portland Chapter meeting, was the Hollow Metal Manufacturer's Association, A Division of NAAMM. There are also the Architectural Metal Products Division, the Metal Bar Grating Division, and the Flag Pole Division. The Hollow Metal group has published a technical and design manual, published in 1977. As of May 1, 1979, the price was \$12.50. It contains an introduction and history, a section on manufacturing, a section on door details, a section on frame details, a discussion of hardware and door installation, the NAAMM Standard CHM1-74 Recommended Architectural Specifications for Custom Hollow Metal Doors and Frames, (which is in 3-Part CSI Section Format, but not in preferred language, and does not discuss installation of doors and frames), and sections on fire rated doors and frames, and finishes with an excellent 9-page glossary. One of the details in the books is a convector cover for the American Steel Warehouse in Portland, Oregon. All in all it is a reference work that every Specifier should have.

Much of this data is available locally from CSI members, most of whom, I was pleased to note, were at the March meeting. These members are listed in the January Roster under Section 08100. Look for their names there. They can be very helpful.

Note: SDI and NAAMM Standards are not consensus documents. See March 81 ABBR Column.

president's column

by Ivan McCormick

(continued from page 1)

Inasmuch as the personnel of the present Board is considerably changed from that of 1976, what is behind this renewed effort? Why this dissatisfaction with membership control over its dues? Particularly in consideration of the fact that only once in its 33 year existence has the membership not agreed with the Board's recommendation for a dues increase. During this period the primary dues per annum has increased from \$6 to the present \$75.

Since the Board is seeking increased authority, consider how it is discharging its present responsibilities under Bylaws Article III, Section 1 "The affairs of the Institute shall be governed by its Board." and Section 4, a "The Board shall have control and management of the affairs of the Institute, with authority to conduct the business of the Institute."

• The Board has adopted a Rule (XII, K) "The Finance Committee shall be responsible for the preparation and approval of the Institute annual budget ..." Board members never see the complete budget, consisting of approximately 130 pages. At the June (lame duck) meeting the Board "ratifies" the annual budget which is presented to them in the form of an 8 to 12 page summary of highlights.

• The firm which audits the Institute's accounts does not customarily attend a Board meeting at which they might respond to queries.

• Board Rule XII, G states "The treasurer, with the advice and counsel of the Finance Committee, is empowered to manage Institute funds, with the exception of the CSI Underwriting Reserve Fund ..." but no statement is made as to who manages the CSI Underwriting Reserve Fund.

• Board Rule XII, L states "The Executive Committee is empowered to adjust the pricing structure of SPEC-DATA to make the program self-sustaining." No statement is made as to who establishes the price of Institute documents, Construction Specifier advertisements, convention registration fees, booth rentals, and other services.

• Board Rule VIII, G states "The Board authorized the president-elect to announce his appointments to standing committees as soon as they have been accepted by the individual members. At its June meeting, the Board has been "approving" the appointments which is "action after the fact" and unnecessary under this Rule.

• Board Rule VIII, B states "The Executive Committee shall: Exercise such part of the authority of the Board in the control and management of the Institute's affairs as the Board may delegate to it. Administer policies established by the Board and interpret Board rulings. Authorize allocation of funds for accomplishment of all approved committee programs. Select committee appointees, approve programs, activities and reports of committees supervised; and make recommendations, as applicable, to the Board ..." By meeting "on the day immediately preceding meetings of the Board" the Executive Committee monitors matters to be considered by the Board and sometimes predetermines a position.

• Although Board Rule XII, Q states "No contract or other obligation, shall be entered into or extended for a period exceeding five years except in the case of office lease ..." yet we have been informed that the incumbent Executive Director will serve for an additional ten years.

• Although Bylaws Article III, Section 4, b states "The Board may appoint an executive direction ... He shall be paid a salary to be determined by the Board and shall hold office at its pleasure." the Board has not only not determined the executive director's salary, it is unknown to them.

"... think on these things." — Phil. 4:8

definition for webster's

GOOD SCHEDULING

When an overweight vacationer insists on being scheduled on a one-week gourmet cruise and the following week at a reducing ranch.

INFLATION

When you begin to realize that your \$75 per week salary used to feed a family of four instead of a child of four.

MIS-INFORMED HUSBAND

One who believes that a woman's place is in the home and expects her there immediately after she gets off work.

THE LAST MILE

Of walking is given to you, free of charge by the airlines only to cover up the head start given your baggage to bump its way to the carousel.

From The Index
Philadelphia Chapter, CSI

regional meeting

The Northwest Regional Meeting was held in Anchorage, Alaska, February 19-21, 1981. Cook Inlet was the Host Chapter. The Portland Chapter was well represented with seven members and four spouses. I do not have the official head count, but approximately 70 people were present for the Saturday dinner.

The theme was cold weather construction. Ironically, Anchorage is having a mild winter this year.

Dr. Eb Rice, Engineering Professor at the University of Alaska, said there are some advantages to cold weather construction. Rivers freeze so it is possible to use them as roads for transporting supplies. You can drive equipment onto the ice to build bridges, so some work can be done more easily in cold weather.

Paul Duclos, General Manager of Brady Construction, spoke of what protection must be provided for the cold weather, such as being sure the ice and snow are off the rebars before placing them. Temporary protection becomes a major cost factor.

Erv Long, President of Arctic Foundations, Inc., talked on permafrost foundation systems. When you build a building you must be careful not to heat the ground and destroy the permafrost. Mr. Long has designed thermo piling to remove this heat and maintain the permafrost.

Bill Hepworth, Branch Manager of Spenard Builder's Supply, reported on logistics and material handling. Tundra is fragile and must be protected at all times. This prevents overland transporting of building material. Materials must be shipped by barge, where possible, or in some places by air. In these locations, materials must be delivered before the cold weather arrives.

Wayne Tobiasson, Research Engineer, Corps of Engineers, spoke on roofing in cold weather. The Corps, through its Cold Region Research and Engineering Laboratory, has studied cold weather roofing. In designing we must consider the snow load, but do not overlook the weight of snow buildup due to snow drifts. Without realizing it the architect designs a building with projections or canopies of a shape which accumulate drifting snow. You could have a foot of snow over the total roof area with a 2- or 3-ft. buildup at a canopy or projection. The structure must be able to support snow drifts.

The region recognized the Portland Chapter and two of our members with regional citations, and our Chapter received a regional citation. For Their Development

and Implementation of a Substitution Request Form." Dick Gira received a regional director's citation in appreciation of his work as Region Education Chairman. Don Walton received a regional director's citation in appreciation of his work as Regional Trustee.

We know these fellows are great and it is nice to see them so recognized.

Ivan McCormick,
President

tabletop displays

The topic for the May meeting will be Solar Design. If you are interested in displaying your products, contact Stan Carper, 655-5115, or Betty Sherman, 231-5000, to discuss table space. These displays are limited to CSI Members.

code tips

by Ken Searl

This month I have some choice goodies for you, so here goes.

First I want to alert you to finger grips in handrails. In all but R-3 and M occupancies it is no longer acceptable to install a smooth single handrail such as a 2" x 6" or 2" x 8" mounted vertically on brackets. At least one continuous finger grip on inside must be supplied. Certain other configurations are allowable so I suggest you contact your local code enforcers or obtain a copy of Oregon Code Interpretation dated December 2, 1980, covering Section 3305(J) of ICBO 1979 Code.

Second, my next alert is regarding science laboratories. The State Fire Marshal has ruled that gas outlets and electrical outlets closely mounted on a lab counter, table, or wall mount, is a classified area and either explosion-proof electrical outlets be installed or separate the gas and electrical outlets not less than five feet apart. Now, don't gallop up to the Fire Marshal and say you didn't know about it. I already tried that and it didn't work. This information should be passed on to the electrical consulting engineers.

Third, and last for now, is that under Section 1707(A) CDX plywood does not require waterproof building paper, provided the sheathing is covered with approved weather boarding as described in Chapter 25 of the Code.

director's report

Bill Mincks and I have just returned from the February meeting of the Institute Board of Directors held in Washington D.C., and we want to take this opportunity to relate to you the major results of our meeting.

As of February 6, CSI has reached a long sought milestone when our national membership hit 15,044. In spite of depressed economic conditions our membership continues to increase.

Because Washington D.C. office rental rates are skyrocketing (like everywhere else), CSI is continuing the quest to build and own its own building. Plans are progressing well, and the Board is very encouraged with the Building Committee's reported progress. Unless something unexpected occurs, we should have our own facilities soon.

Unquestionably the Board action which will have the greatest effect upon our Region was the approval of a new structure for the of a new structure for the Institute Technical Documents Committee and the Institute Education Committee. Previously, each Region was entitled one member on each Committee, but the travel and per diem expenses of those members had to be borne by the individual Regions. Because of our great distance from Washington, D.C., we were obligated to spend almost \$3000 each year.

This ever-increasing cost was more than our Region could bear. To resolve this problem, the Board approved a new structure and a new method of financing both committees. Rather than being 13-person committees (3 core members, plus one participating member for each of our 10 Regions), the committees will now each be composed of 5 members, plus a chairman, and their expenses will be fully covered by the Institute. This change will probably improve the committee's efficiency, and it certainly will improve our Region's financial health. Now we will be able to spend our money locally for programs that will have direct value to our own members.

In closing, don't overlook that fact that it's none too early to begin your planning to attend this year's convention, which will be held in St. Louis. The Convention program deals primarily with one of our industry's most perplexing problems — Construction Failures. We know you will find the convention well worth your time and effort.

Paul Edlund, FCSI
Director, N.W. Region CSI

reprographics seminar

A reprographics seminar will be held at the Benson Hotel, Portland, Oregon, on May 14th from 12:00 noon to 3:30 pm. Representatives from Cascade Blue Print, Oregon Blue Print, Shannon & Co., and Western Microfilm and Lithographics will present an interesting and educational program describing the latest processes and services currently available. The program will include a luncheon, panel discussion with a question and answer period, and a tour of a reprographics plant. Those planning to attend should make reservations by calling.

the roof over your head

Some roofs are steep, and some are flat,
And some are on a gradient,
To keep us warm, to keep us dry,
And live in good health radiant;
On home or plant or office large,
And barn or supermarket,
They shelter us from weather's whims
From Arctic to Antarctic

But things are not just as they seem;
Some roofs are misbehaving;
Though clad with all the science knows,
The storms they are not braving;
Researchers toil, designers fret,
And roofers blame the makers;
Where once they pledged for 20 years,
Now roof bonds get no takers.

They're built with all this modern stuff
In the name of insulation;
But poly's, ure's, clor's and verm's
Don't stop the condensation;
Are vapour barriers good or not?
Please call it flow retarder;
Roofs upside-down or right side up
Are argued now with ardour

They check roofs here, they check them there,
And cut what's called a "dogbone";
With infra-red and cold ersatz,
They test as for a cyclone;
Should moisture flow warm side or cold,
Or should they vent it out?
And is the membrane mopped, and will
The bitumen wear out?

I make no claim to knowledge tech,
But offer this reminder;
Of times when life was simpler lived
And nature seemed much kinder;
Perhaps our scientists to-day
Could find a worthwhile clue
In roofs of old that did not leak
Like the Eskimo's igloo?

Clifford Fowke
Consulting Editor for
Canadian Building Magazine
Nov. 1979 Issue.

kilbourn's kontinued krax

by Lee Kilbourn

The Door and Hardware bunch did a fine job the other night. I just wish somebody would have remembered the language of MasterFormat, CSI Document MP2-1 Master List of Section Titles and Numbers, because on page 42 it starts out thusly:

08100 — METAL DOORS AND FRAMES
Doors fabricated of steel, aluminum, bronze, or other metal. Includes glass moldings and sheet metal frames pressed into profiles required for openings for door, borrowed lights, casings, transoms, and sidelights.

Related items included Elsewhere:
Standard Details: Section 00850
or on Drawings.

Door Frames of Rolled Steel
Members: Section 05500

Metal Finishes: Section 05900

Doors included in entrance or storefront systems: Section 08400.

Louvers: Section 10200.

Note: Louvers in doors are often specified in this section.

(The above is a direct quotation from MasterFormat, Broadscope Section Explanations.)

Then the Specifier can turn back to page 19 where it says "08100 METAL DOORS AND FRAMES"

- 10 Standard Steel Doors
- 11 Standard Steel Frames
- 12 Custom Steel Doors
- 13 Custom Steel Frames
- 15 Packaged Steel Doors and Frames
- 20 Aluminium Doors and Frames
- 30 Stainless Steel Doors and Frames
- 40 Bronze Doors and Frames."

All the above is an introduction to the question, "where, you all, is the word 'hollow'?" Anything, in my opinion, done from sheet metal is going to basically be hollow, and the Stock folk have just as much claim to the word "hollow" as the Custom Folk do. And so I would recommend that everyone either accept the recommendations of MasterFormat and quit using the word "hollow" in terms of doors and frames or write a letter to the Institute at 1150 17th Street NW, Suite 300, Washington D.C. 20036 explaining why they don't accept the recommendation of MasterFormat and that they want to call their doors hollow.

Once again, I say with whatever emphasis I can muster MasterFormat is available, use it

board of directors minutes

March 3, 1981

PRESENT Les Seeley, Stan Nelson, Jane Sampier, Hunt Jones, Janet Styner

Les Seeley reported that the NW Regional Conference in Anchorage, Alaska had been a success. Seeley said that a combination of good speakers and subject matter made the conference interesting to all those attending. Discussion centered on cold weather construction: frozen pilings, roofing in cold weather, and the problems of shipping and receiving building materials. Seeley felt there would be further reports from the Conference when Ivan McCormick returned.

Les Seeley reported that the Tri-Regional Conference in Hawaii was not going to take place. Spokane will be the site of the Regional Conference in the spring or fall of 1982 and Portland will host the Conference in 1983. The Portland Conference will not be held in downtown Portland. Research is in process to find a suitable site.

Stan Nelson, Treasurer, reported that the Chapter books had been reviewed and audited by Harold L. Tellock, CPA from Battleground, Washington. Mr. Tellock set the CSI books up on a double-entry accounting system.

Cash	\$ 0.00
Checking Account	2,292.63
Savings Account	6,247.04
Postal Permit	158.58
Accounts Payable	0.00
NET ASSETS	\$8,698.25

Cristal Johnson reported that the Products Fair booths were going fast. There will be a meeting of the Products Fair Committee at the Builders Exchange at 11:30 AM on Monday, March 16th.

Johnson also thanked Jane Sampier for providing advertising space in the Daily Journal of Commerce on Thursday, February 19th. Sampier provided the space compliments of the Builders Exchange to promote the Products Fair.

Hunt Jones reported that The Mallory catering staff was in flux and that the Chapter should be aware that some changes may be made in its policies concerning banquets.

The next Board of Directors meeting will be Tuesday, April 7, 12:00 Noon in the CSI Chapter Office.

Meeting adjourned at 12:55 PM

Respectfully submitted,
Janet H. Styner, Recording Secretary

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letters to the editor

TO THE EDITOR:

Thanks so much for the excellent story in the February **Predictor** on our seminar on March 6-7. Most helpful! We appreciate it!

Bob Fritsch, Chairer
Education Committee
Willamette Valley Chapter
The Construction Specifications Institute

TO THE EDITOR:

On behalf of Curtis Lee and myself, (and I'm sure the Institute also agrees) I would like to extend our thanks for your chapter's work in promoting the CSI seminar on "Specification Writing for Mechanical and Electrical Engineers" given March 6th and 7th in Eugene. Based upon the attendance of engineers from the Portland area, I can see that your members did a good job in recommending attendance.

As a long time reader of **The Predictor**, I want to express my thanks for keeping me on your mailing list. Your publication is one of the most informative in the country. Keep up the good work.

Very truly yours,

Jerome I. Orland, FCSI
Head, Contracts Administration
County of Los Angeles
Department of County Engineer-Facilities

march chapter meeting

from notes by Perky Kilbourn and Guy W. Hoyt III

The March meeting was a joint venture between the Portland Chapter CSI and the Oregon Chapter of the Door and Hardware Institute. Approximately 80 people met at Henry Ford's Restaurant to hear discussion on stock, stock standard, and custom hollow metal products.

DHI President Jerry Zanarosso brought the meeting to order following dinner. Wayne Dennis opened discussion with a description of the type of hollow metal products available from stock, and Guy Hoyt of Tom Benson Industries continued with a discussion of stock doors and frames and added he felt they were often poorly specified. Hollow metal manufacturers could be more helpful to the architect and contractor if they knew:

1. the type of building and its expected longevity;
2. the type of hardware to be used with the door;
3. the details of the hollow metal product, if it is not a stock item;
4. enough lead time to get the material manufactured for the job.

Dick Koessel of Grand Metal Products discussed, "Why Custom Hollow Metal". He stressed design freedom and construction flexibility, which are available with custom

hollow metal products. Specifiers should state exactly what is desired. For example, don't say "fully welded" but state specifically what is to be welded.

The consensus was that there is a place for both stock and custom hollow metal products. The meeting was opened for questions, including price differences between stock and custom hollow metal and warranties for doors.

Questions led to more questions: How much do architects need to know about hollow metal? How well is the industry informing architects? What can industry do to improve? Would architects be interested in a seminar on hollow metal? Should the Oregon Chapter of the Door and Hardware Institute take the initiative and proceed with plans for a seminar? With the cooperation of the CSI, this type of educational program would greatly enhance the construction industry in the Pacific Northwest.

The Construction Specifications Institute and the Oregon Chapter of the Door and Hardware Institute are challenged to set up a joint committee to:

1. work on a cross reference of standard door types between SDI and NAAMM, and
2. prepare a guide specification for each "standard door type" established in #1 above.

Will the CSI and DHI accept the challenge and do the work?

ROSTER UPDATE:

- a. We are now at work on 1981 Roster!
- b. Kilbourn forgot to ask for MasterFormat classification numbers for the "Yellow Pages", please send them.
- c. If your didn't get the update request (mailed recently with Portland Chapter Bylaws), call 223-8231 and request a request form.

WE REMEMBER:

John A. Hoyt, CSI member and representative for Polymer Building Systems, died Wednesday, March 18, 1981. The family suggests remembrances be made to the University of Oregon Health Sciences Center/Pediatrics Cardiology.

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Publications

Dennis Obert 228-6459

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the predicator



volume 20, number 9 construction specifications institute, portland chapter

may, 1981

president's column

by Ivan McCormick

The following letter was received from the Institute president, in direct response to the letter received from one chapter concerning the proposed dues increase. This is passed on for your further information.

Memo To: Chapter Presidents

In its relatively brief thirty-three year history, CSI's technical and educational accomplishments, influence throughout the construction industry and our rapid growth have been truly remarkable.

Our phenomenal progress must be credited to dedicated members who have shared their expertise, chapters whose programs have brought the CSI message to the construction community throughout the nation and a management system that has kept abreast to serve our more than 15,000 members.

But there are still some things that must be brought up-to-date. One archaic practice that must be modernized is the way member dues are established — by ballot to voting members. That practice was probably appropriate at the beginning and for several years thereafter but now it is completely out of step with what CSI is today, a highly sophisticated and influential organization that must be able to counteract what are sometimes drastic swings of our nation's economy. Most of us encounter the same situation in business and personal financial management.

Your Institute Board is trying to bring about the necessary change — to modernize. We need your help. The March Newsdigest announced a proposed Bylaws change (see the attached copy) that asks members to approve shifting dues setting authority to the Board where it should be if we are to keep pace with the times.

I strongly disagree with the letter Chapter Presidents received recently from one chapter that would lock CSI into the primitive past, citing matters that have nothing to do with the proposed Bylaws change.

Every member of the Institute Board was elected by you, the members. The Board is composed of members. They are tho-

(please turn to page 2)

may chapter meeting

DATE:
May 12, 1981

PLACE:
The Mallory Hotel

TIME:
5:30 Social
6:30 Dinner
7:30 Program

PROGRAM:
Western S U N (Western Solar Utilization Network), which represents the U.S. Department of Energy for the promotion of public awareness and commercial of solar energy, will be represented by Sheldon Klapper, Director of the Program Division. Mr. Klapper has a master of Architecture from MIT. He will present commercial and institutional case studies of solar energy installations, including some residential applications, with slides. A question-and-answer period will follow the presentation.

RESERVATIONS ARE REQUIRED:
Cost, \$8.00. Please call Janet Styner at the CSI office before Monday noon, May 11th.

tabletop displays

The topic for the May meeting will be Solar Design. If you are interested in displaying your products, contact Stan Carper, 655-5115, or Betty Sherman, 231-5000, to discuss table space. These displays are limited to CSI Members.

city of portland to watch ceiling systems

by Lee Kilbourn

Enclosed with this month's issue of **The Predicator** is the City of Portland Bureau of Building Policy of Installation Standards for Suspended Acoustical Ceiling Systems. This policy will become effective July 1, 1981 according to Dave Beckman, Inspections Manager. Oregon is in seismic zone 2 and the 1976 and 1979 Building Code Standards require ceiling systems be designed and constructed to resist lateral forces. So, Specifiers, Part 1 of your Specification Sections, in the article on submittals, may need to add the requirements discussed in the enclosure. If you have questions, please direct them to Chuck Stalsberg at 248-4533.

BS by KS

by Ken Seerl

Recently I attended a CSI chapter meeting at the Puget Sound chapter, Seattle, and apparently it was one of the most highly attended meetings in their history. Over 150 people attended this meeting including several people from the Portland Chapter and a good-sized delegation from the Vancouver Chapter of Construction Specifications Canada (CSC). Many wives were also in attendance. The program was a discussion on roofing presented by John Bradford, a roofing contractor from Billings, Montana, and a member of the National Roofing Contractors Association. Mr. Bradford's speech was excellent in the coverage of what is known as a standard built-up roofing system, as some people call a good old-fashioned roof. This type of roofing system is commonly built up of three or more layers of felts, with insulation under the felts, a gravel topping plus a base flashing of several layers of felts, and a mineral surface top sheet.

Mr. Bradford was most articulate in his description of this type of roofing system which apparently he considers the finest.

There were many of us who came to the meeting hoping to hear information regarding the many single-ply systems burgeoning on the market today, and some of these were shown on slides and briefly discussed, but no nitty gritty details were forthcoming.

Over the years, and particularly with more and more insulation being placed in the roofing system due to energy conservation, it seems to me that our old so-called conventional roofing system is not doing the job and I believe this is supported in the advent of all these single-ply systems we now see available.

In my opinion, the best roofing system available today is the protected membrane variety. This can be either a built-up or a single-ply system. Applying insulation on top of the membrane does two very important functions, one being the temperature differential at the membrane is greatly reduced, which in turn minimizes splitting and blistering and also stops ultra violet deterioration, and, second, the membrane is protected from physical damage including walking on surfaces.

(please turn to page 2)

president's column

by Ivan McCormick

(continued from page 1)

roughly conscientious, dedicated to the well-being of CSI, and completely sensitive to the interests of CSI members.

In just three months I will complete my term as President to be followed by a year as Immediate Past President. After that, I will no longer be a member of the Board.

But I have confidence in the future of CSI. I have confidence in members whom you will elect in future years to the Board, the governing body of the Institute. They will honor your trust and mine.

I urge you and all members of your chapter to vote "FOR" on the ballot that will be mailed to voting members on April 9, 1981.

Sincerely,

George S. George, FCSI
President, CSI
March 25, 1981

At its meeting on February 7-8, 1981 in Washington, DC, the Board adopted a proposed Bylaws amendment. A ballot will be mailed to the voting membership about mid-April proposing:

- Transfer of dues setting authority to the Board.
- A guarantee that there would *not* be a dues increase for at least two years after approval of this proposed amendment by the voting membership.
- Any dues increase that might be proposed to take effect after the minimum two years moratorium would require a two-thirds majority affirmative vote of officers and directors attending a regularly scheduled Board meeting.

Background

- 1) The Board emphasized that the amendment does not propose a dues increase. It *guarantees* that dues would not be increased for at least two years following approval of the amendment.
- 2) The proposed change also would improve greatly conditions caused by the present system, which hinders prompt reaction to often rapid shifts in the national economy. Up to two years go by before a dues increase becomes fully effective. For example, the last dues increase — first proposed during the Spring of 1979, approved by the Board in September 1979, and finally approved by the membership with the ballot count on December 10, 1979 — will not become fully effective until the end of the

current fiscal year, June 30, 1981. The major causes of this protracted implementation are the current system's long lead time and members' random months anniversary dates.

3) Obviously, since the Institute Board is comprised of CSI members elected by CSI members, each has a personal interest and overall concern in any subsequently proposed dues increase. In addition, fiscal prudence and decision-making care are emphasized by the requirement for a two-thirds majority affirmative vote.

4) Even now, a large number of CSI chapters vest dues-setting authority in chapter Boards.

5) Most organizations similar to CSI set dues by Board action.

The Board points out that this proposed amendment is *not* related in any way whatsoever to the Institute office building project which would be financed separately by tax-free industrial revenue bonds and in cooperation with a developer.

(NOTE: Presently, the building project is in planning and negotiating stages. If all related pending matters are resolved and when consequent details can be finalized, a full report will be made to the membership).

From CSI Newsdigest, March, 1981

BS by KS

by Ken Searl

(continued from page 1)

One can even install a protected membrane system on a completely flat roof deck and not encounter any trouble over the years. We have several protected membrane systems on a flat deck that have been performing for years with never a call-back.

One thing a specifier has to be constantly on guard against is to always check out any story or claim any roofing system representative makes regarding any trouble or failure regarding a competitor's system. I will give you some examples:

- A. Statement was made that the asphalt in a protected built-up roofing system will fail if constantly covered with standing water. I have found this not true. I believe that if sunlight does not also reach the asphalt no damage will occur.
- B. Statement that brand X failed at a certain location. Upon calling the owner I found out statement wasn't exactly correct — that some leaks did occur but due to faulty roof-top mechanical units.

C. Statement that a system failed back in New York. Well, I called the owner's maintenance chief and found out it didn't fail at all; they were perfectly happy with the roofing system.

With so many single-ply systems on the market we are now getting so many claims and counter-claims that one gets the feeling that confusion is reigning, and believe me it is, and will be until more experience is gained on actual applications. One thing I am happy to hear about is that the Western Roofing Contractors Association has a test program in effect with actual installations of many single-ply systems, so one of these days we may find out the true status of the various claims made by various claims made by various roofing representatives.

In the meantime I suggest moving cautiously in the selection of a roofing system and, in my opinion, whatever you do, do not specify a built-up membrane directly over straight Urethane insulation unless you cover Urethane with a rigid insulation or provide a base sheet that will breathe. Urethane is an excellent insulation but if installed improperly will give you lots of problems including grinding of teeth and possible lawsuits. Note: There are several single ply systems where straight Urethane performs satisfactorily directly under the membrane. One thing I also strongly recommend in our wet climate is if you are specifying a felt system be sure and specify Fiberglass felts. Most specifications call for a glaze coat over felts at the end of each day but believe me, very seldom does it ever get done and if it isn't, it can sure cause damage to organic felts, but Fiberglass felts, being inorganic, do not require a glaze coat to protect it from weather. There are some inorganic felts other than Fiberglass but I prefer Fiberglass and Type IV is considered excellent.

In closing, if I haven't made myself clear, call me up and I will bend your ear some more.

products fair bigger and better

Cristal Johnson, who chaired the 1981 CSI Seventh Annual Products Fair April 15th and 16th, announces that the first rough attendance figures indicate over 800 architects, engineers and builders visited the largest building products fair in the West. The experiment to extend the Fair from a one-day show to a two-day show was judged successful and should be continued in the future according to CSI members in answer to a questionnaire.

(please turn to page 4)

something good for a change

by William Merritt

Many designers must agree with Thomas Jefferson's adage that "no man is secure in his person or property while the legislature is in session." From the point of view of the design professional, the actions of our lawmakers are often wrongheaded, occasionally menacing, and almost never beneficial. This situation has now changed. The profession has a bill in Salem that it can and should support.

As any designer who has tried to collect payment from a developer after a project has fallen through knows, liens attach only to improvements. Since architects, engineers and landscape architects often perform their entire services before anything at all is built, they are left without a remedy under the lien laws if the project falls through and work is never begun. This lack of protection falls on top of the fact that this is precisely the circumstances under which the designer is most often not paid. When the project is built, the owner gets his loan and there is money to go around. It is when he does not get his loan and has to pay out of his own pocket that the owner is tempted to ignore his debt to the designer.

The bill has been introduced to change this situation. It would allow the designer to lien the land on which the improvement would have been built. This bill is highly pro designer. Its passage would benefit architects, landscape architects and engineers and all members of these professions should vigorously support it.

As a result of the recent Sunset review of the state Builders Board, many legislators were treated to a parade of homeowners who had been victimized by shady home improvement outfits which later claimed liens. Consequently, many members of the legislature think of liens as anti-consumer. The only way to counteract this attitude is for designers to contact their senators and congressmen and DEMAND passage of the bill. Do this yourself. Coerce your friends. Especially contact professional groups throughout the state who may not as yet have heard of the bill.

We are fortunate that the bill was introduced by Hardy Myers, the speaker of the House. If you do not have a contact in Salem, write:

Mr. Hardy Myers, Speaker
House of Representatives
Room 269, Capitol
Salem, Oregon 97310

Thank him for introducing the bill and tell him you support it.

Also, the bill will be scheduled for committee hearings. We will need people to go down to Salem and testify. This is not a frightening experience like General Haig's being grilled by the Senate Confirmations Committee. It is basically just a group of people sitting around a table asking your opinion. We need your opinions and your horror stories of times you weren't paid. At present, the hearings have not been scheduled. If you are willing to testify, please call me at 224-3380 and I will let you know the time and the place.

This bill needs your support.

roster update

by Lee Kilbourn

Updates for the 1980 Portland Chapter Directory are slow in coming — as of Monday, April 20, 85 updates have been returned from 233 members. If we don't hear from you we will assume last year's listing was correct and communications should not be attempted evenings or weekends. But communication is my business and here is the way my listing will appear:

Lee F. Kilbourn, AIA Prof.
Zimmer Gunsul Frasca
111 S.W. Oak
Portland, Oregon
224-3860

Perky Kilbourn
3178 S.W. Fairmount Blvd.
Portland, Oregon 97201

244-1778

Classification: Arch. Firm.

* = Address of Record
(* * = Address for Mailing **THE PREDICATOR** — if different than Address of Record.)

board of directors meeting

noon

may 5, 1981

letters to the editors

Gentlemen:

On Friday, June 19, 1981, the Portland Chapter of the National Association of Women in Construction is sponsoring FIRST Annual Golf Tournament.

We invite you to share in the fun and festivities. Detailed information is enclosed.

Please announce the forthcoming event to your members at your next membership meeting and if possible include this information in your membership Bulletin and encourage everyone to attend for a day of fun.

An individual mailing to each of your members will be made the early part of May.

We are looking forward to sponsoring a like tournament in future years but we'll need your participation to make this a success.

Sincerely,

Ella Kuehn
MEI-Charlton, Inc
Chairman of Publicity — Golf Tournament

PORTLAND CHAPTER NO 54
NATIONAL ASSOCIATION OF WOMEN
IN CONSTRUCTION

is pleased to invite you to

Our FIRST — ANNUAL GOLF TOURNAMENT

"Texas Scramble" (18 Holes)
Friday, June 19th, 1981
GLENDOVEER GOLF COURSE
(Eastside)
14015 N.E. Glisan St., Portland

The first mixed tournament sponsored by a women's group.

Come and enjoy a great day!

Only \$20.00 per person, which includes lunch, coffee, beer, and soft drinks. Invite your friends and join us for a day of fun!

LOTS OF PRIZES

RESERVATIONS Taken Wednesday,
June 10th, 1981
8:00 A.M. — 4:30 P.M.
Call Dee Gower at Lloyd Corporation —
233-5874

products fair bigger and better

(continued from page 2)

Industry participation was up, too. Last year exhibitors occupied 82 booths; this year there were 127 booths sold. Other innovations were equally successful. The new Hospitality Room at The Thunderbird offered a relaxed social atmosphere for CSI members and exhibitors at the Fair to exchange greetings and information, and all Products Fair guests enjoyed a complimentary luncheon on both days of the Fair.

Awards were given to Beehive Plumbing for the Best Technical Booth, Tube Specialties Co. Inc. and Door Distributors of Oregon, Inc., for the Best Graphics in a Booth, and to Carlisle-Northwest Division, Mohr Construction Systems, for the Best All-Round Booth. 12500 Commercial Window Coverings was also cited informally by the Products Fair Committee for their extremely attractive graphics, and gave thanks to Hunt Jones and his associates for a job well done. Unfortunately the booth was not completed prior to judging so there could be no formal award. Product Demonstration Awards went to Northwest Lath and Plaster Bureau and Regal Manufacturing Company.

Committee members working with Cristal Johnson in coordination of the Products Fair included Tom Roche, of the W. R. Grace Co., Bret Biggs of Flintile, and Don Wright, SEE Design and Production.

code tips

by Ken Searl

How many of you are aware that under Human Impact Glazing the Consumer Products Safety Commission (CPSC) will allow certain areas to be glazed with non-safety glass whereas state requirements under Chapter 54 are more stringent and in some cases justifiably so. I will give you a good example: CPSC does not require safety glass where there is a walking surface on both sides, each within 36 inches of such panel but one side 12 inches below the other, but Section 5406(a) does require safety glass. As usual with a lot of big brother requirements CPSC should have also required safety glass. Common sense dictates the use of safety glass in this instance. I believe it would be enlightening for all of us to study both CPSC and UBC requirements.

Under slab vapor barriers have caused quite a bit of discussion as to just what is

acceptable. Following is a list of all items approved by the State Structural Code Advisory Board.

6 mil or thicker black POLYETHYLENE film over minimum
2" of clean sand
55-pound rolled roofing
St. Regis Company MOISTOP;
Carlisle Rubber Company SURE-SEAL
Mical Inc. DAMPROOF XX
Celotex Corporation ASBESTOSEAL and ELASIBORD
Fortifiber Corporation SUPERBAR

You will note that only 6 mil Polyethylene requires 2" of sand beneath but I want to caution you that some of the other approved barriers are susceptible to crushed stone and your specifications should call for a levelling bed of sand if crushed stone is installed. I found this out the hard way and, of course, it cost additional money to correct which usually doesn't get the owner grinning from ear to ear, so I suggest you profit from my experience.

board of directors meeting

April 7, 1981

PRESENT: McCormick, Nelson, Seeley, Sampier, Searl, Johnson, Kilbourn, Moorman, Eggleston, Obert, Merritt, Styner.

1 The minutes of March 3, 1981 were reviewed and approved as written.

2 Treasurer's Report:
Stan Nelson presented an amended Treasurer's Report for the period ending February 28, 1981 and a current Treasurer's Report for the period ending March 31, 1981

TREASURER'S REPORT (AMENDED)
Fiscal Year (FY) May 1, 1980 to April 30, 1981 Report for the Period Ending February 28, 1981 (10th Month of FY).

February 28, 1981

CASH	\$ 0.00
CHECKING ACCOUNT	2,292.63
SAVINGS ACCOUNT	6,247.04
POSTAL PERMIT	158.58
ACCOUNTS PAYABLE	0.00
NET ASSETS	\$8,698.25

TREASURER'S REPORT
Fiscal Year (FY) May 1, 1980 thru April 30, 1981 Current Report for Period Ending March 31, 1981 (11th of Month of FY)

March 31, 1981

CASH	\$ 0.00
CHECKING ACCOUNT	3,622.91
SAVINGS ACCOUNT	14,032.04
POSTAL PERMIT 1737	653.98
ACCOUNTS PAYABLE	0.00

NET ASSETS \$18,308.93

Nelson reminded the board that we are now in the last month of the fiscal year

Nelson moved to extend the fiscal year by two months so that the next fiscal year will begin on July 1, 1981. Les Seeley seconded the motion. Passed.

Nelson also stated that he needed a ten-key adding machine with a tape to help with the bookkeeping required for CSI

Les Seeley moved that \$150.00 be given to Stan Nelson as CSI Treasurer, for purchase of a ten-key adding machine. Stan Nelson seconded the motion. Passed.

3. Products Fair:
Cristal Johnson reported that all is going well in the final planning of the 1981 Products Fair

The booths will be judged by three Board of Directors members between 10:00-12:30 on April 15, 1981.

The Hospitality Room is in the Thunderbird-Coliseum/Cascade Room. It is for exhibitors and CSI members only.

4. Committee Reports:

a. Program — The May program is being presented by WESTERN SUN. Tuesday, May 12, 1981 at the Mallory Hotel.

b. Our current Portland Chapter Membership has risen to 233 members.

c. Awards — Ken Searl stated that one, possibly two craftsmanship awards will be given in June. Nominations are due prior to May 20, 1981.

d. Nominating Committee — Bill Merritt reported that the nominating committee will present the slate of officers on April 15, 1981, 7:00 PM, in the Cascade Room of the Thunderbird-Coliseum.

5 National Convention:
The National Convention will be held June 22-24, 1981 in St. Louis, Missouri. The newly elected president and president-elect will represent the Portland Chapter.

6. 1983 Regional Conference:
Rod Moorman has done some research on ten hotels (motels) in the Portland area that would be appropriate for the 1983 Northwest Regional Conference.

Ivan McCormick directed Moorman to continue research and dates and report to the entire Board of Directors at the May 5, 1981 Board Meeting.

The meeting was adjourned at 1:10 PM.

March 26, 1981

Bureau of Buildings Policy

INSTALLATION STANDARDS FOR SUSPENDED ACOUSTICAL CEILING SYSTEMS

Code Reference: 4701(e) Building Code

Effective July 1, 1981, the Building Bureau will require that ceiling systems, with or without light fixtures, be designed and certified by a structural engineer registered in the State of Oregon in accordance with Standard 47-18 and Chapter 23 of the Building Code and be installed under permit in accordance with such design and parts 'A' and 'B' of this document.

In lieu of engineered design, suspended ceiling using a standard 2' by 2' or 2' x 4' grid when not supporting partitions may be installed in accordance with this document

I SUSPENDED ACOUSTICAL CEILINGS

A. INFORMATION FOR PERMIT

1) Specifications stating that a suspension system complies with UBC Standard 47-18 or ASTM C636-69(76) shall not be sufficient information for the purpose of obtaining a building permit for an acoustical ceiling requiring lateral bracing.

B. SPECIFICATIONS, DRAWINGS & PERMITS — THE FOLLOWING WILL BE REQUIRED TO OBTAIN A BUILDING PERMIT

1) ENGINEERED DESIGN. Provide in triplicate a certified design, calculations, drawings and specifications prepared by a structural engineer registered in the State of Oregon, showing compliance with Standard 47-18 and Chapter 23; and identifying whether the suspension system is light, intermediate or heavy duty, substantiating with manufacturer's literature or ICBO research reports; and identifying all connection devices and their approved loading capabilities.

2) 2' x 4' AND 2' STANDARD GRID USED IN LIEU OF ENGINEERED DESIGN Provide in triplicate manufacturer's literature or ICBO research report identifying whether the suspension system is light, intermediate or heavy duty; provide a schedule of fixtures and other ceiling supported equipment and their weights; identify all connection devices and their approved loading capabilities.

B GENERAL INSTALLATION REQUIREMENTS — UBC STD. 47-18, ASTM C 636-69(76)

- | | |
|--|--|
| STD SECTION
SEC. 47, 1809
(a) HANGERS | 1) hangers to be a min. of #12-ga., galvanized, soft annealed mild steel wire @ 4' o/c each way. |
| | 2) attachment devices to be of an approved type capable of carrying 5 times the ceiling load (50#)* |
| | 3) hangers to be plumb or counter splayed and not press against pipe or duct insulation. |
| (b) CARRYING
CHANNELS &
(c) MAIN RUNNERS | 4) carrying channels and main runners are to be level within 1/8" in 12'; leveling is to be performed with hangers taut; kinks or bends are not to be used as a way of leveling. |
| (g) CEILING
FIXTURES | 5) deflection shall be limited to 1/360 or .133" (1/8") in a 4' span; if the fixture causes a deflection in excess of 1/8", the fixture shall be independently supported or the grid shall be supplementally supported within 6" of each corner with a #12 wire. |
| | 6) a fixture installation shall not cause the runners to rotate more than 2° from the vertical (this is the equivalent of 1/32" out of horizontal for a standard 1" tee). |

*See lateral bracing requirements that follow for more restrictive requirements.

C. LATERAL BRACING REQUIREMENTS IN LIEU OF ENGINEERED DESIGN (APPLICABLE ONLY TO STANDARD 2' x 2' and 2' x 4' GRIDS WHEN NOT SUPPORTING PARTITIONS.)

- | | |
|------------------------------------|--|
| 47 1812
(a) VERTICAL
HANGERS | 1) hangers to be a minimum of #12-gage, galvanized, soft annealed mild steel wire @ 4' o/c each way; hangers to be attached to suspension members and to the support above with a minimum of three turns; hangers shall not attach to or bend around other material or equipment and shall not be more than 1 in 6 out of plumb without being counter splayed. |
| | 2) all connection devices shall be of an approved type capable of supporting 100#'s and be secured to the building structure. |
| | 3) a trapeze or equivalent shall be used where obstructions preclude direct attachment to the structure. Trapeze suspensions shall be a minimum of back to back 1 1/4" cold rolled channels when spans exceed 48" |
| (a) PERIMETER
HANGERS | 4) all runners shall be independently supported at the perimeter within 8" of the wall or ceiling discontinuity; the wall angle or closure strip shall not be allowed for this purpose. |

(c) LATERAL BRACING

(d) PERIMETER MEMBERS

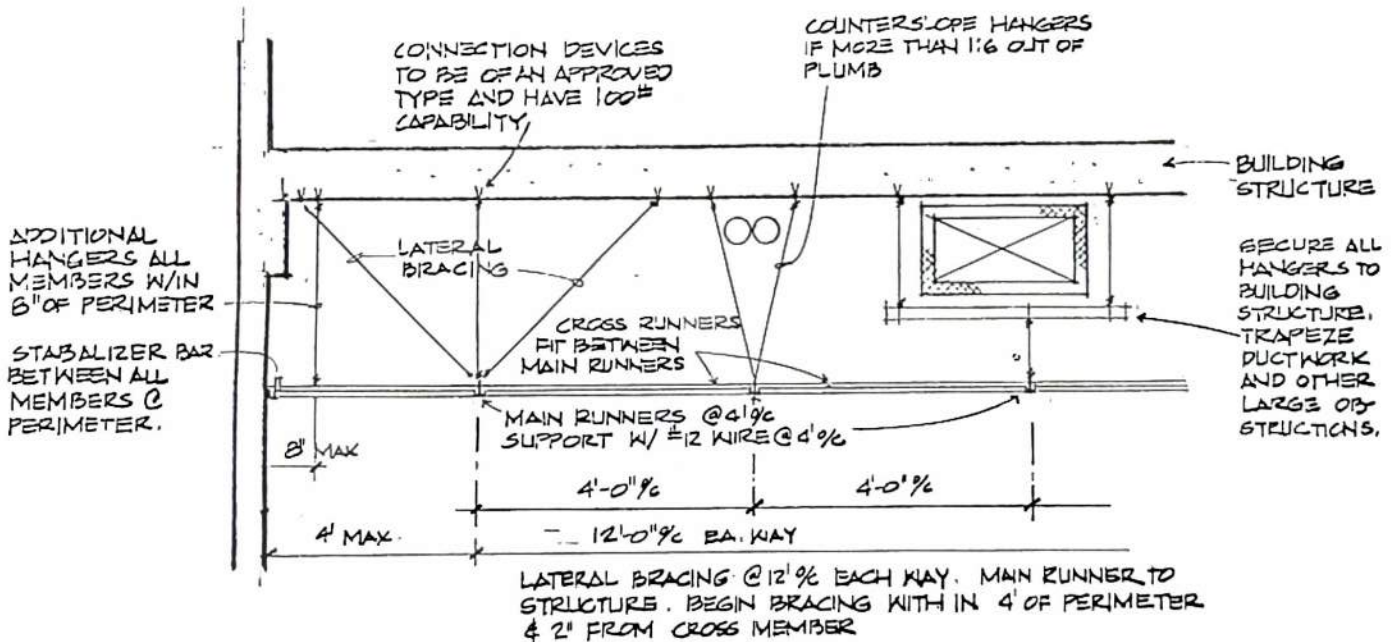
(e) ATTACHMENT TO PERIMETER MEMBERS

(f) LIGHT FIXTURES

- 5) within 4' of the walls and at 12' o/c in each direction, 4-#12 ga. wires shall be connected within 2" of an intersection of a main runner with a cross runner and splayed 90° from each other at an angle not exceeding 45° from the plane of the ceiling.
- 6) members perpendicular to the wall shall be tied together (stabilized) to prevent their spreading. This shall be done immediately adjacent and parallel to the wall. The wall or closure angle shall not be used for this purpose, although to facilitate installation, runners may be attached to the closure angle at two adjacent walls with clearances between the wall and the runner being maintained at the other two walls.
- *7) all light fixtures shall be positively attached to the suspension system. The attachment device shall have a capacity of 100% of the fixture weight in any direction.
- 8) only intermediate-duty and heavy-duty suspension systems shall be used to support light fixtures. (If a light duty system is used the fixtures must be independently supported at each corner with a #12-ga. hanger)
With intermediate-duty suspension systems, the grid members shall have supplemental support within 3" of each corner of the fixture with a #12 ga. hanger. Where heavy-duty suspension systems are used, supplemental support is not required.
- 9) In addition to the above, fixtures or other equipment weighing more than 20# but less than 56# shall have two #12-ga. wires from the housing to the structure above or to other hanger wires. These wires may be slack. Fixtures or other equipment weighing in excess of 56# shall be independently supported with #12-ga. wire at each corner to the structure above. Pendant hung fixtures shall be independently supported with a minimum of one #9 ga. wire.

*This requirement satisfies Article 410-15(c) of the National Electrical Code.

LATERAL BRACING FOR SUSPENDED CEILINGS



CROSS SECTION

NO SCALE

CSI REPROGRAPHICS SEMINAR

Don't miss this opportunity to learn from the experts.
Representatives from four major reprographics houses will present
a highly interesting and informative program:

CASCADE MICROFILM - Homer Richards

Opti-Copy
Blowback
Drawing restoration
Pin bar registration

OREGON BLUEPRINT - Jim Sellers

20-80 Xerox reproduction

SHANNON & CO. - Jeff Prideaux

General discussion of mylars
Diazo mylar - advantages and limitations
Fix line vs. wash-off mylar - how and where used, which takes
screening best

WESTERN MICROFILM SYSTEMS/LITHO-GRAPHICS -

Larry Kauffman, Lonnie Johnson

Microfilming of drawings
Aperture cards
Aperture card reader vs. enlarger/printer
Jackets
Copyflo microfilm printing
Screens and their proper usage for contact printing and
photo enlargement

Each portion of the program will be followed by a question and answer
period.

The seminar will be followed by a plant tour of Shannon & Co.

Mark your calendar for May 14th at the Benson Hotel, Portland, Oregon.
The program begins with lunch at 12:00 and will conclude at 3:30 PM.

SEMINAR AND LUNCH: CSI MEMBERS \$18.50; NON-MEMBERS \$22.50
Make your reservations early by calling 223-8231; then send a
check payable to CSI to: CSI REPROGRAPHICS SEMINAR
519 S.W. Third Avenue, #200
Portland, Oregon 97204

Be sure and list your name, address and daytime phone number on
the registration.


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the predicator



volume 20, number 10 construction specifications institute, portland chapter

June, 1981

president's column

by Ivan McCormick

Time flies, so we all say at one time or another. This is my last column as your Chapter President. It does not seem that a year has gone by so quickly. There have been many interesting events; and some not so interesting. The pleasant memories far outshine the other.

The Products Fair was the best we have ever put on. Over eight hundred signed in at the registration table. We had exhibitors in all 127 booths. Several of those exhibitors were from Canada — making this an international exhibit. Several exhibitors demonstrated their products and gave us an opportunity to learn more about them. We, for the first time, evaluated the exhibitors and gave awards to those with particularly outstanding displays. The Products Fair Committee did a tremendous job and we, the Chapter, owe them our sincerest gratitude.

The Education Committee has continued to excite us with the challenging education program. The Insurance Seminar, which was integrated with the Products Fair, was well attended.

Our Bylaws have been revised and issued to all members. We now have a current document available to help us. It is also easier to locate, read and comprehend what is in it.

The Chapter Awards Committee has worked to establish several award categories for recognition of chapter members. We will be presenting these at the June Chapter Meeting. Hopefully all of you will keep the awards in mind and submit the name of those you think deserving to this committee.

The Chapter business is too mind-boggling for one person. Without the Board and our committee heads very little would get done. Our Board and those who chair our various committees have made our Chapter what we are. We can be proud of their accomplishments. The 20-80 law seems to apply here. Twenty per cent of the members do eighty per cent of the work.

Congratulations to our new slate of officers. The result of the May 12 election is reported elsewhere in this newsletter. Seventy-seven members cast their ballots, out of 233 members. Thirty-three per cent of the

membership voted. Only one out of three. We are still too apathetic.

The Portland Chapter has many good things going for it. We have accomplished so much with so few. Imagine what could be done with all of us actively participating. I hope this next year will see a growth in this objective. It must start with me — you — US.

BS by KS

Basic Specs by Ken Seert

In the April issue of *Western Building Design* magazine, in the column entitled "Viewpoints", Architect Elmer E. Botsai, FAIA, a former AIA national president, states it is his position that specification consultants by and large have been a contributing factor towards mediocrity in architecture. His reasoning is that too often specification consultants are captives of the manufacturer and have very little field experience, little on-going design experience, and tend to be isolated and surrounded by the written word and inundated with literature.

Well, now, as my father would say, "There is a large mouth full of opinion."

I know several specification consultants, including one in Canada, and they just don't fit Mr. Botsai's description. It just may be that he has met one or two consultants that fall into the above categories, but I feel that this is not typical with all specification consultants.

In general, specification consultants are not able to gain field experience, which I feel tends to limit them to writing specifications geared to tried and true methods, but this is not necessarily bad as long as they don't wait forever when new methods and materials appear on the construction scene.

As to design experience, I'm not sure too much of that should be required of a specification writer. A specification writer or consultant should be more conversant with the nuts and bolts of construction rather than design.

It is my opinion that most specification writers, including consultants, tend to get too wordy. This is partially caused by trying to cover all possible loopholes. I have seen specifications that have items not relating to the project, but in recent years this has

been diminishing. In general there has been a great improvement in specifications. I also feel that any time there is a specification award program the judges should include contractors and manufacturers. These are the people that are greatly affected by specifications in general, and their opinions of specifications can be most helpful. Poor specifications can easily run up the cost of a project when it comes to bidding and supplying products and materials. One of the most critical subjects with many contractors and suppliers is substitutions and the proper method to approve or reject a similar product and what can happen. There will be a forthcoming article covering this in the near future.

CSI polynesian night

A reminder of next Tuesday's final CSI chapter meeting of the summer.

DATE:
Tuesday Evening
June 9, 1981

TIME:
5:30 Social
6:30 Dinner
7:30 Program

PLACE:
Salty's Restaurant
513 S.E. Clatsop St.

CSI is having their annual "social" meeting at Salty's on the Willamette River. We will have an excellent Buffet Dinner, live entertainment and special chapter awards will be presented.

Everyone is welcome especially husbands, wives and guests that do not always come to the meetings during the year.

The cost is \$16.00 per person and reservations can be made by calling Janet at 223-8231, by noon, Monday, June 8

tabletop displays

The CSI Education Committee extends its thanks to all who displayed products this year at Chapter Meetings. In October, Elastromeric Single-Ply Roofing prepared the display; November, Lath and Plaster; December, Christmas Decorations; January, Tile and Floor Coverings (topic was open to member requests); February, Masonry; March, Doors and Hardware; and May, Solar Design.

sun at may chapter meeting

by Perky Kilbourn

The May meeting of the Portland Chapter CSI offered a presentation by Sheldon Klapper and Ken Anderson representing Western SUN (Solar Utilization Network). SUN is a joint program of the United States Department of Energy and of the Western states, dedicated to furthering public awareness of the commercial possibilities of solar energy in the Western states.

SUN goals are:

1. to encourage architects and contractors to design and build solar buildings,
2. to present seminars on solar use and equipment,
3. to work with financial institutions to encourage loans for the construction of solar buildings,
4. to maintain a lending library with books and slide/tape presentations on solar energy uses in buildings,
5. to help states, counties and cities write laws which assist home owners and businesses in the use of solar energy.

After a brief introduction, Klapper gave a slide presentation of various buildings using solar energy, including wineries, hospitals, kennels, office buildings, warehouses, bus-washing facilities, laboratories, motels, laundries and schools.

Anderson showed buildings which utilize solar collectors, but were designed for natural cooling with an atrium type construction. Western SUN in its Portland office utilizes solar energy with blinds which store hot air (tromb air wall) and reflect sunlight into the interior of the office so that the need for electric lighting is reduced.

Klapper and Anderson briefly discussed the main types of solar collectors — air, concentration, focusing dish type, and flat plate collectors.

awards presented

The CSI Portland Chapter will present awards at the June Chapter Meeting, the last meeting of this '80-'81 meeting year.

Ken Searl, chairman of the Awards Committee, reports that for the first time a Craftsmanship Award will be presented. You are encouraged to attend the June meeting, Tuesday, June 9, at Salty's, to find out who will receive the Craftsmanship Award.

TAS documents review

The following TAS documents are scheduled for review and re-validation by the TDC. To aid in their review, the TDC is inviting comments. If you have any suggested additions, deletions or revisions, the information should be sent to CSI, Suite 300, 1150 17th Street, N.W., Washington, DC 20036. Attn: Mr. Alan Dierksen, Manager TAS Program. All review comments must be received by July 31, 1981.

Division 7

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07610	Sheet Metal Roofing
07631	Gutters and Downspouts
07811	Plastic Skylights
07830	Roof Hatches
07920	Sealants and Calkings

Division 8

08120	Aluminum Doors and Frames
08130	Stainless Steel Doors and Frames
08211	Flush Wood Doors
08310	Sliding Metal Fire Doors
08331	Overhead Coiling Doors
08332	Side Coiling Doors
08341	Overhead Coiling Grilles
08342	Side Coiling Grilles
08353	Accordion Folding Doors
08355	Flexible Doors
08370	Sliding Glass Door
08401	Storefront Systems
08510	Steel Windows
08710	Finish Hardware
08715	Exit Devices
08721	Automatic Door Equipment
08730	Weatherstripping and Seals
08740	Thresholds

Division 9

09220	Portland Cement Plaster
09280	Gypsum Wallboard Accessories
09350	Glass Mosaics
09410	Portland Cement Terrazzo
09420	Precast Terrazzo

substitution request form

The Substitution Request Form, developed by the Portland Chapter CSI, is available in the CSI Office or from Jane Sampier at the Builders Exchange. A sample copy of the form is reproduced elsewhere in **THE PREDICATOR**. Use of the Substitution Request Form is encouraged by Chapter members.

code tips

by Ken Searl

Did you read the flyer in the May issues of the local AIA *Bulletin* and the *Predicator* entitled "Installation Standards for Suspended Acoustical Ceiling Systems" dated March 26, 1981, a City of Portland Bureau of Buildings policy? If you haven't, I suggest you do so and if you need a copy, call the local AIA-CSI office. I'm not quite sure I understand all of the implications this flyer covers, but we are investigating and will come up with some answers.

For this month's code tip I will discuss "fire dampers" versus "ceiling dampers". It appears all these years many of us only thought "fire damper" whether it was in the ceiling or in a wall. Well, it appears that there definitely is a great difference. Underwriters Laboratories does distinguish between the two types of fire assemblies. As you are aware, membrane-type ceiling assemblies must, among other things, limit heat transfer to the structural elements above; i.e. unprotected steel beams, bar joist, etc. Ordinary fire dampers have no insulating qualities to retard heat transmission. In contrast, "ceiling dampers" apparently are both flame and heat resistant.

In the standard test for ordinary fire dampers there is no requirement nor measurement for the damper's ability to insulate or retard the transmission of heat. Roughly twenty minutes or so following the standard time temperature curve test, ordinary fire dampers are glowing red and radiating temperatures in excess of 1200 degrees Fahrenheit, and the limiting factor on the test for ceiling/floor assemblies is 1200 degrees Fahrenheit. That is, once the ambient temperature above the ceiling membrane reaches or exceeds 1200 degrees Fahrenheit the test fails, since the entire structure, according to Underwriters Laboratories Incorporated criterion, is in danger of collapse. Thus, a fire damper assembly which transmits 1200 plus degrees Fahrenheit at the end of twenty minutes would have no value in a one hour to four hour fire-resistive ceiling/floor system.

Two brands of UL listed ceiling dampers are National Controlled Air, Inc. and Saf Air. One or both are supplied by local firms.

I wish to thank Wilburn Dodge of Washington County Fire District No. 1 for providing most of the above information regarding these dampers.

SUBSTITUTION REQUEST FORM



**THE CONSTRUCTION
SPECIFICATIONS INSTITUTE
Portland Chapter**

TO: _____

PROJECT: _____

We hereby submit for your consideration the following product instead of the specified item for the above project:

<u>Section</u>	<u>Paragraph</u>	<u>Specified Item</u>
_____	_____	_____

Proposed Substitution: _____

Attach complete technical data, including laboratory tests, if applicable.

Include complete information on changes to Drawings and/or Specifications which proposed substitution will require for its proper installation.

Fill In Blanks Below:

A. Does the substitution affect dimensions shown on Drawings?

B. Will the undersigned pay for changes to the building design, including engineering and detailing costs caused by the requested substitution?

C. What affect does substitution have on other trades? _____

D. Differences between proposed substitution and specified item? _____

E. Manufacturer's guarantees of the proposed and specified items are:

Same

Different (explain on attachment)

The undersigned states that the function, appearance and quality 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 _____


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James F. King
 President

board of directors meeting

May 5, 1981

PRESENT: McCormick, Nelson, Seeley, Davidson, Searl, Kilbourn, Jones, Moorman, Obert, Styner.

1. The Board of Directors discussed the upcoming June Chapter meeting and what the program would be this year.

Ed Charles suggested that the Chapter take a boat trip, but the boat rental fee would be \$800-\$1000 for the evening. Charles felt a possible method of raising funds to take the trip would be to have the Industry members of the Chapter donate \$10-\$15 each and sponsor the fun night.

After discussion, it was decided that the boat was too expensive and that it would be preferable to have a dinner in a local restaurant.

2. Rod Moorman reported that he had done some research and presented the possible locations for the 1983 CSI Regional Meeting. A discussion ensued and the following concerns were voiced — whether or not the Products Fair should be held in connection with the Regional Meeting — whether a seminar should be held in connection with the Regional Meeting — where the Regional Conference should be held.

A motion was made to separate the Regional Conference and the Products Fair. It was seconded and passed.

Les Seeley moved. Stan Nelson seconded that the first choice for the 1983 Regional Conference be the Red Lion at Bowmans. Passed.

3. Les Seeley mentioned that there is to be a CSI leadership conference in Seattle, August 7-8, 1981 at the Vance Airport Inn. Seeley said that he would like to attend the conference.

4. Les Seeley moved. Rod Moorman seconded that the Chapter pay the dues for Janet Styner to become a CSI member. Passed.

5. Fiscal Year May 1, 1980 to April 30, 1981

Quarterly Treasurer's Report for period ending April 30, 1981
4th Quarter (Feb-Mar-Apr)

Cash	0 00
Checking Account	525 10
Savings Account	14,121 66
Accounts Receivable	8,920 00
Postal Permit #1737 Portland	296 30

Accounts Payable	15,532 87
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Net Assets	8,330 19
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Stan Nelson reported that the Memorial Coliseum charged CSI approximately \$5,500.00 more than the Chapter had estimated it would cost. Nelson would like a member of the Products Fair Committee to check on the billing.

The meeting was adjourned at 1:10 PM

Respectfully submitted,
Janet H. Styner, Recording Secretary

1981-1982 board of directors elected

PRESIDENT
Les Seeley (1982)

PRESIDENT ELECT
Don Eggleston (1983)

SECRETARY
Cristal Johnson (1982)

TREASURER
Betty Sherman (1982)

DIRECTORS
James Grady (1982)
Jerry Eaker (1983)
Dick Gira (1983)
Bill Merritt (1983)
Bruce Townsend (1983)
Bob Strickler (1983)
Jim Davidson (1983)

PAST PRESIDENT
Ivan McCormick (1982)

bylaws amendment

The Bylaws Amendment, which becomes effective immediately, passed by a 69.7% affirmative vote with 3,694 in favor and 1,607 opposed.

The amendment provides:

- That dues setting authority is now vested in the Institute Board.
- That there not be a dues increase for at least two years.
- That any future dues increase will require a two-thirds majority affirmative vote of officers and directors attending a regularly scheduled Board meeting.

the predicator

address correction requested

200 Dekum Building
519 Southwest Third Avenue
Portland, Oregon 97204
503/223-8231

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Beaverton, OR 97005

M.F