

# the predicator



vol. 19, no. 1 construction specifications institute, portland chapter september, 1979



## moorman's meanderings

The purpose of the Institute and the Chapter is to serve you, the CSI member. Ideally this should be accomplished with no work from anyone. That would be like the perpetual motion of a machine producing work with no consumption of energy. Unfortunately this is impossible. Likewise it is impossible for the chapter to perform without an expenditure of energy.

As with the machine, the more effort which is expended to make the Chapter run in relation to the useful output, the less efficient the chapter is. However, most machines operate more efficiently when they are not overloaded. The chapter will be more efficient if we don't overload some of the members.

For the Chapter to serve you, we must spend some of our time on administrative work. We will keep this at the lowest level possible. Right now, however, the most pressing problem of the Chapter is an administrative one caused by our Bylaws.

The Bylaws were revised recently to resolve some problems and to bring them up to date. However, this revision created a problem. Article VI Section 3 restricts the nomination of the President-Elect to only three candidates. In Spring 1979, the last year the three candidates chose not to serve as President. By oversight, the Bylaws left an alternative which I think inadvisable.

Margie Largent has agreed to be Chairman of a Bylaw Review Committee. The committee will consist of one newer chapter member, one who has served the chapter for a long time, a Board member, and a small number of others

whom Margie recommends. If you have any suggestions you wish the committee to consider, jot them down and get them to Margie, the Chapter office or me. All suggestions will be considered.

The Bylaw Review Committee will be working on the revision in September. In the meantime, I have asked Margie to recommend a revision to the Board in regard to the Qualifications of President-Elect. The revision will be presented at the September Membership meeting and be voted on at the October Membership meeting.

This will be a stop gap measure while the committee works on an overall revision. Your input is needed. Please let someone on the Board or committee know your feelings.

Rod

## future chapter meetings

November 13, 1979

Subject: Mechanical Contractors Problems and Solutions

Speakers: Plumbing Heating and Cooling Contractors of Portland

Place: Mallory Motor Hotel

December 7, 1979

Subject: 20th anniversary party, banquet and roast

Speakers: Charter members

Place: Sheraton Inn — Portland Airport

January 8, 1980

Subject: 1980 economic outlook

Speaker:

Place: Mallory Motor Hotel

## portland chapter products fair

Date: Thursday April 17, 1980

Time: 3:00 PM to 9:00 PM  
Manned Product Exhibit Booths

3:00 PM to 9:00 PM  
Buffet Dinner hosted by Exhibitors

Place: Memorial Coliseum, Portland, Oregon

Exhibitor Applications

Call Stan Nelson at (206) 696-1651  
(503) 285-2856

Exhibitor Fee

\$195.00 per booth, paid in advance

## september chapter meeting

Date: Tuesday September 11, 1979

Time: 5:30 PM Social Hour  
6:30 PM Dinner (7.75)

7:30 PM Speaker

Robert D. Byrd of Robert D. Byrd and Associates, Inc., Roofing and Waterproofing Consultants, San Juan Capistrano, California

Subject: European Roofing Systems  
Place: Mallory Motor Hotel, 729 Southwest 15th Avenue, Portland, Oregon (503) 223-6311

Background:

The Portland Chapter is proud to sponsor Mr. Byrd for the Chapter meeting followed by a seminar on roofing systems the following afternoon.

Dinner Reservations Required:

Members, guests and spouses are invited. Phone Janet Hill at 223-8231 by noon on Monday, September 10, 1979. No shows will be billed for the price of the dinner.

## october chapter meeting

Date: Tuesday October 9, 1979

Time: 5:30 PM Social  
6:00 PM Dinner (7.75)

7:00 Business Meeting

7:30 PM Speaker  
3-M Visual Products Division, St. Paul

Subject: Conducting Meetings and Making Presentations


Place: Mallory Motor Hotel, 729 Southwest 15th Avenue, Portland, Oregon (503) 223-6311

Background:

Dinner Reservations Required:

Members, guests and spouses are invited. Phone Janet Hill at 223-8231 by noon on Monday, October 8, 1979. No shows will be billed for the price of the dinner.






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## revisions to chapter directory

### membership additions

Stewart H. Ankrom	Griggs/Lee/Ruff/Architects 5290 SW Macadam Portland, OR 97201	(503)245-3301 Professional
David Hansen	Donn Corporation 5611 First Avenue So Seattle, WA 98108	(206)763-8030 Industry
Michael E. Gaddis	Sheldon Eggleston Reddick Assoc 123 NW Second Ave Portland, OR 97209	(503)228-6444 Professional
Patrick R. McCluskey	Ray F. Becker Company 2345 N Ross Avenue Portland, OR 97227	(503)288-5341 Industry
Robert Picard	PPG Industries, Inc P O Box 12437 Portland, OR 97212	(503)288-5181 Industry
Thomas Paul Reeves	Westover Land Corporation P O Box 10828 2460 NW Westover Drive Portland, OR 97210	(503)228-0734 Professional
Arnie Schmutz	Buckaroo-Thermoseal, Inc 5410 NE 109th Ave Portland, OR 97220	(503)254-7034 Industry
Douglas D. Sessions	E. L. Engineering 401 West 17th Street Vancouver, WA 98660	(503)283-0538 Professional
Stewart Gordon Strauss	Broome, Oringdulph, O Toole 733 NW 20th Ave Portland, OR 97209	(503)226-1575 Professional

### roster changes

*Indicates revision		
Herman Ford	Dallas Ceramic Co *5523 S E International Way *Milwaukie, Oregon 97222	*(503)659-9734 Industry
Roger Hill	Boyd Architectural Wallcovering *5505 6th Ave South *Seattle, Washington 98108	*(800)426-2099
Richard L. Hughes 87-9866	Hughes Acoustical Consulting and Design, Inc 12 South First Street, Suite 229 San Jose, California 95113	(408)287-9866 *Professional
Warren C. Koepke	Modernfold Northwest, Inc *6775 S W 111th Ave *Beaverton, Oregon 97005	*(503)643-9491 Industry
Robert D. MacDonald	Austin Company 16524 S E 278th Kent, Washington 98031	*(206)226-8800 *Ext 181 Professional
James H. McConnell	Food Service Consultant *230 S E 7th Avenue *Hillsboro, Oregon 97123	*(503)640-6095 Professional
Andrew B. Olsen	School District #1 *501 North Dixon *Portland, Oregon 97227	*(503)249-2000 *Ext 411 Professional

### roster corrections

Curt Saltmarsh	Rodda Paint Company 6932 S W Macadam Ave Portland, Oregon 97219	** (503)244-7512 Industry
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\*\*Note: Phone number was also transposed in classified directory under Sections 09800 and 09900



**educational seminars**

**Seminar #1**

Name Built-up Roofing — the malpractice malady  
 Sponsor Portland Chapter, CSI  
 Coordinator Jeff Beukema  
 Fee \$10 00 members, \$15 00 non-members  
 Time 3 to 6 pm  
 Date September 12, 1979, Wednesday  
 Location Mallory Motor Hotel  
 Meal No Host Cocktails and Dinner  
 Speaker Robert D Byrd  
 Robert D Byrd and Associates, Inc. San Juan Capistrano California  
 Topic Sloped insulation, flashing expansion joints, penetrations Systems compared, 280 slides of U S and European solutions

**Seminar #2**

Name Designing and Practicing Energy Conservation  
 Sponsor Portland Chapter, CSI  
 Coordinator Tom Young  
 Fee \$25 00 members, \$25 00 non-members  
 Time 3 00 to 9 00 pm  
 Date Wednesday, October 24, 1979  
 Location Holiday Inn — Portland Airport  
 Meal Dinner included  
 Speakers 1 George Tsongas, Associate Professor of Engineering, Portland State University  
 2 Omar Mithun, Architect Seattle, Washington  
 3 Dr Jay McGraw Consulting Engineer, Denver, Colorado  
 Topics 1 Energy Conservation Consciousness  
 2 Architects viewpoint of design for energy efficiency  
 3 Engineers viewpoint of energy audits and design  
 4 Panel Discussion

**treasurers report**

Current Monthly Treasurer's Report for Period Ending 31 July 1979 (3rd month of Fiscal Year)

Cash	\$0 00
Checking Account	279 20
Savings Account	6,289 44
Accounts Receivable	678 00
Postal Permit #1737 Portland	23 73
Accounts Payable	\$0 00
NET ASSETS	\$7 270 37

Respectfully  
 Donald J Ashton, Treasurer

**Seminar #3**

Name Bidding and award of Construction Contracts  
 Sponsor Institute and Portland Chapter CSI  
 Coordinator Tod Lundy  
 Fee \$150 00 members \$175 00 non-members  
 Time Friday, February 22, 1980  
 Location Nendels Inn, 9900 S W Canyon Rd, Portland, Oregon  
 Meal Lunch included  
 Speakers 1 Mark E Brown, Staff Attorney Black & Veatch Kansas City, Mo  
 2 Local Attorney

**Seminar #4**

Name Project Closeout  
 Sponsor Institute and Portland Chapter, CSI  
 Coordinator Bob Klas  
 Fee \$150 00 members, \$175 00 non-members  
 Time Saturday, February 23, 1980  
 Location Nendels Inn, 9900 S W Canyon Rd, Portland, Oregon  
 Meal Lunch included  
 Speakers #1 Mark E Brown, Staff Attorney, Black and Veatch, Kansas City, Mo  
 #2 Local Attorney

**Seminar #5**

Name Effective Construction Product Representation  
 Sponsor Institute and Portland Chapter, CSI  
 Coordinator Dick Gira  
 Fee \$125 00 members, \$150 00 non-members  
 Time Tuesday, April 22, 1980  
 Location Nendels Inn, 9900 S W Canyon Rd, Portland, Oregon  
 Meal Lunch included  
 Speakers Charles Chief Boyd, CSI, The Boyd Group, Inc Architects, Tulsa, Oklahoma

**Seminar #6**

Name Insurance  
 Sponsor Portland Chapter, CSI  
 Coordinator Sam Ream

**Seminar #7**

Name Roofing — NRCA  
 Sponsor Portland Chapter, CSI  
 Coordinator Keith Schaber

**AAMA OFFERS SPEC AND TEST PUBLICATIONS ON EXTERIOR ALUMINUM BUILDING PRODUCTS**

To specifiers of exterior aluminum products for residential and light commercial construction. Architectural Aluminum Manufacturers Association offers these publications

*Voluntary Specifications for Aluminum Soffit and Fascia (AAMA 1404 1)* Covers formed and coated soffit vented and unvented, formed and coated fascia ribbed and smooth, and soffit installation for adequate ventilation. This spec gives ten performance tests for coatings

*Voluntary Specifications for Aluminum Gutter and Downspout Systems (AAMA 1405 1)* Covers formed and coated systems including gutter end caps, miter sections, elbows, downspouts and other components, also fasteners, caulking compounds and sealants

*Voluntary Specifications for a Single Component Sealant for Residential Sheet Products (AAMA 1407 1)*

Covers pumpable, gunnable, single-compounds which set by solvent evaporation for sealing joints on residential sheet products


*Voluntary Standard for Testing Water Sensitivity of Applied Organic Coatings on Aluminum Sheet (AAMA 1460 1)* Covers the entire procedure to determine the sensitivity of an applied and cured organic coating film on conversion-coated aluminum sheet to water

*Specifications for Aluminum Siding and High Performance Coatings for Aluminum Siding (AAMA 1402 3)* Covers formed and coated aluminum panels, with and without insulated backing, and designed to be applied vertically and horizontally, also accessories, fasteners, caulking compounds, and foil-faced underlayments

*Performance tests for Insulated Aluminum Siding (Supplement to AAMA 1402 3)* Covers the testing of heat resistance, cold resistance, water resistance, corrosion resistance, and shear resistance of the combined aluminum-backer assembly

Copies are available for \$1 00 each from Architectural Aluminum Manufacturers Association, 35 E Wacker Drive, Chicago, IL 60601





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**chapter board meeting:**  
Thursday, September 13,  
1979, 12:00 noon at CSI  
office

**chapter committee meetings:**  
Publications

Tuesday, September 11,  
1979  
5:30 pm at Mallory Motor  
Hotel

Tuesday, September 25,  
1979  
5:30 pm at SERA, Archi-  
tects

Tuesday, October 9, 1979  
5:30 pm at Mallory Motor  
Hotel

**chapter meetings in the northwest region**

Cook Inlet 3rd Wednesday  
Call Harley Hightower 276-  
2242

Puget Sound  
2nd Wednesday  
Latitude 47

Spokane 2nd Thursday  
Fireside Inn

Willamette Valley 3rd Thursday  
Bev's Steak House

Tri Cities 3rd Thursday  
Contact Robert Bready

**northwest region officers**

Directors	Professional Industry	Paul Edlund	FCSI (503)485-1941
		Bill Minks	(509)535-8500
Steering Committee	Ken Searl	(503)223-1181	
Liability Committee	Al Bannon	(503)224-5560	

**institute officers**

Participating Members	Education Committee	Larry Arnold	(503)222-5384
Technical Documents	Rob MacDonald	(206)226-8800	Ext 181
Nominating Committee	Larry Brown	FCSI (503)620-1014	
Long Range Planning	Bob Fritch	(503)686-4159	
CSI Rep to NCIAAC	Gordon Todd	(503)246-8295	
Board of Examiners	Lee Kilbourn	(503)224-3860	

**CCS Exam Scheduled for 5 April 1980**

CSI's certification program for construction specifiers, implemented in 1978, will continue with the third annual written examination held on April 5, 1980. As reported in the CSI Newsdigest, examinations will be held in three cities in the northwest region, including Anchorage, Portland and Seattle.

The application forms and procedures are the same as those for the 1979 examination held last April.

The closing date for applications to take the examination is February 1, 1980. An application form is included in the July CSI Newsdigest.

Application forms may also be obtained by writing to The Construction Specifications Institute, Inc., Suite 300, 1150 Seventeenth Street, NW, Washington, D.C. 20036.

The following Chapter members are listed as Certified Construction Specifiers by the Institute:

- John C. Crook, CSI
- Richard C. Ehmann, FCSI
- John R. Gatewood, CSI
- Lee F. Kilbourn, CSI
- Robert D. MacDonald, CSI
- Ivan H. McCormick, CSI
- Rodney V. Moorman, CSI
- Stanley W. Nelson, CSI
- Dennis E. Obert, CSI
- Andrew B. Olson, CSI
- Kenneth L. Searl, CSI
- James A. Wright, CSI

Others listed in the state of Oregon include:

- Robert A. Andrews
- Paul Edlund, FCSI (Willamette Valley)

**specification Laws by Murphy**

"It is impossible to make a specification foolproof, because fools are so ingenious."



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# BS by KS

basic specs by ken searl

Your board of directors for the Portland Chapter CSI has a problem that can only be helped by majority vote of the members present at a regular meeting to revise our chapter by-laws to allow the president-elect to be chosen within the first year of his or her term as director. The present by-law requirement limits the choices to only three people, those three that are in their second year of their three-year term. (It is noted that the three out-going directors are not eligible to serve as president-elect.) If these three people all decide they do not want to become president through the president-elect method, then no one is available. It is felt that an incoming director should not serve as president the first year, but I see no problem with being a president-elect the first year. By the time the year is up enough experience on the board has been attained. It is my understanding that the chapter intends to put this up for a vote at the October meeting so please give this matter your consideration for an affirmative vote to allow selection of the president-elect from six people in lieu of only three.

I wish to invite all of you to attend the 20th anniversary of the Portland Chapter on Friday, December 7th, at the Airport Sheraton Hotel. This is going to be a gala event with many people who helped organize our chapter back in 1959: Don Paine, FCSI, from Seattle, who helped form our chapter will attend. We hope that many other early members will also be there. It appears from pursuing our chapter membership list that we have six charter members still active in the chapter. They are Dick Ehmann, FCSI, Don Kroeker, Member Emeritus, Mary Alice Hutchins, Oren Gustafson, Bob Burns, and Deane Smith. Now if I have missed anybody, give me a call or put me on your peanut list.

It is noted that as of May First we list 205 members and by now it is probably greater. It may also interest you to know that 36 of these are members who have belonged ten years or more.

In closing I will mention our next regional meeting will be held in Kennewick, Washington, where a new chapter has been formed. Don't forget your long-range planning — our national convention will be held in June 1980 at Anaheim, California.

Ken

## Galvanizers Seminar

A seminar on "Corrosion Protection with Hot Dip Galvanizing" will be held by Galvanizers Company, Portland on Oct. 16 in the Bonneville Power Administration auditorium, 1002 N. E. Holladay Street.

Open to architects, engineers, specification writers, designers, and corrosion engineers, the seminar will be held from 2:00 to 5:00 p.m. Moderator will be Scott Hinsdale, president of Galvanizers Company.

Speakers will be Colin J. Allen, senior market development engineer for Cominco Ltd., one of the world's leading zinc producers; Glen S. Nishimura, regional marketing director for the American Hot Dip Galvanizers Association; North American trade association for the custom galvanizing industry; and Jerry W. Gambrell, manager of sales service for National Zinc Co., also a major producer of zinc.

Topics to be presented include "Designing for Hot Dip Galvanizing," "Time Proven Performance: Galvanizing in Transportation and Industrial Construction," and "The Economics of Corrosion Protection with Galvanizing." The film, "Think About It," which describes the family of zinc coatings, also will be shown.

The speakers will be joined in a question and answer session by Leo S. Stout of Galvanizers Company.

For further information, contact Mr. Stout at Galvanizers Company, 2406 N. W. 30th Avenue, Portland 97210 (phone 227-5611).

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## three to lee



photo by Master Photography, Inc.

The photo above, taken at the Institute Convention in Cincinnati shows Lee Kilbourn receiving his three awards. Left to Right R. Stanley Blair, FCSI (President), A. Lavellett (Chairman of CSI Awards Committee), Lee Kilbourn.

## perky's points

Lee and I have been traveling again. This time to Cincinnati and the National CSI Convention. We were not the only ones from the Northwest to attend. Rod Moorman (current Portland Chapter President), Bob Klas (immediate Past President) and his wife Mary Ann, Larry Arnold (Participating member of the Education Committee), Douglas Isaacs (an industry member), Jim Potter (Specification Competition Award Winner from Salem), Paul Edlund FCSI (Region Director — Elect and Specification Competition Award Winner), Rich Maris (Current Willamette Valley Chapter President), Washington State was represented by Puget Sound Chapter President Dave Thomas and his wife, Specification Competition Award Winner Bob Ross and his wife, Outgoing Region Director Jess Wilkins, Participating member of Technical Document Committee Rob McDonald, CSI Fellows Don Paine and Walt Bishop, plus Jim Adkins and his wife, Bill Mincks represented Spokane as well as being Region Director and others.

I felt it was significant that 8 of 19 Specification Competition Awards were given to persons from the Northwest Region. I asked Ev Spurling FCSI, FAIA, and this year's winner of the Ben John Small Award, why he hadn't submitted any Specifications. He advised he couldn't get his engineers to use the 3-part Section Format. Specification writers in the Northwest must communicate well with their engineers and this may be why CSI is going to offer a Seminar on Division 15 and 16.

The Spouses program was well planned, enjoyable and included a wine tasting afternoon and a luncheon-theater performance of "My Fair Lady". Both activities were worth doing and they also allowed time for me to attend some of the Technical Program. Specifically, Charlotte Ross (Mrs. Bob Ross) and I attended the Opening Session and Awards Presentation. Joann Strong (Mrs. Terry Strong) and I attended the talk by Garland D. Wiggs, Ed.D., Associate Professor, Human Resource Development, The George Washington University, Washington, D.C. His talk was entitled "Coping with Change" and he made the most appropriate statement that people tend to resist change yet change is with us. We should learn to expect and accept change.

Dr. Wiggs acted as a Consultant for the CSI Education Committee and helped prepare a questionnaire determining a job trait profile for CSI members, which job trait included their knowledge, needs and ability and skills requirements. He discussed time management with relation to coping with change. He stressed that Specifications Writers should expect and accept change. One should watch for patterns of change and adapt to change by taking Continuing Education Classes to keep up with change.

Each CSI member needs to develop an understanding of the needs and priorities of their particular job. Dr. Wiggs stressed the role of being a Specification Writer but I believe his conclusions hold for other forms of employment. He stated that one must diagnose completely a problem before putting into effect a solution. One must learn from experience as to what will and will not "work". One should conduct periodic self reviews to determine areas where one is weak and needs more knowledge.

An ideal CSI member is one who can learn to live in a temporary system which is continuously changing. It is one who is achievement or goal oriented and is an agent of change rather than the recipient of change. I can't help but feel the climate in the Northwest reflects this attitude. CSI members in the Northwest are more concerned about the economics of the situation. The question of whether an owner can get the building he wants for the money he has, is important to CSI members (both industry and professional). Most Specification Writers prepare "good" Specifications which are easy to read and do not need to be taken to Court in order to be understood. Manufacturers and Contractors usually perform quality work in accordance with the

Specifications. The above is probably still a bit utopian since Tuesday's presentation was given by two attorneys: McNeill Stokes, Stokes & Shapiro Attorneys-at-Law, Atlanta, Georgia and Arthur T. Kornblut, Ford, Farquhar, Kornblut & O'Neill, Attorneys-at-Law, Washington, D.C.

In conclusion, Dr. Wiggs stressed that one should learn to live with uncertainty and ambiguity for these are what life is all about. The important thing is to have fun at what you do. When it stops being fun — get out!

Perky

## CRSI WANTS WINNERS

Concrete Reinforcing Steel Institute announces a Call for Entries in Design Awards V. In this, the fifth, national program honoring design professionals for creative achievements, a new category has been added.

The new category is Energy-Conserving Design. Special consideration will be given to structures achieving energy conservation by the judicious use of structural elements rather than HVAC systems. Methods such as heat transfer, through the building envelope, shading, positioning and/or special sizing of the windows are of prime interest.

Structures eligible for all awards are those of cast-in-place concrete, using conventional reinforcing bars as the predominant reinforcement. Esthetic expression, engineering achievement, functional excellence and economy (or meritorious combinations of these qualities) will be considered.

The panel of judges includes recognized professionals from throughout the U.S. in the fields of architecture and engineering.

Entrants must be registered architects or engineers, working either individually or in teams.

Deadline for entries is October 29, 1979. For complete entry details, write CONCRETE REINFORCING STEEL INSTITUTE, 180 N. LaSalle St., Room 2110D, Chicago, IL 60601, Attn: Director of Marketing.



**letters**

Dear Margie

I look upon your retirement as Predicator Editor with mixed emotions

On the one hand I am pleased for you that you won't have to face that awesome deadline each month, but for myself I'm sorry to see you step down. Your considerable personal effort toward making the Predicator one of the best newsletters in the county will be hard to replace. I certainly don't mean to imply that you have big feet, but your shoes will indeed be hard to fill.

Again, Margie, please accept my congratulations for a super job

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

Editors Note: After publishing the September Predicator I have a great respect for the tremendous job done by Margie. I hope our committee can "fill her shoes"

**portland chapter board meeting report**

14 June 79 12:15 to 1:30 pm

**Present**

Board Members: Ashton, Eggleston, Klas, Koepke, McCormick, Moorman and Nelson

Guests: Largent and Obert

**Reports**

**Treasurer**

Assets	7,839.50
Income	1,748.50
Expense	2,567.97
Net loss	819.47
Receivables	1,126.00
Payable	0.00
Need audit	

**Membership**

1977-78	184
1978-79	205
1979-80	

Expect increase. Will order 24 membership pins for new members

Program: Mail flyer to membership for each meeting. 20th anniversary party, Airport Sheraton, December 7, 1979

Publications: Will send letter to advertisers \$90 for business card advertisements

Products Fair 1979 profit near \$3,000

Chapter Affairs: Will purchase new name tags at cost of \$113 total

President: Asked Klas to work with long-range planning. Distributed Chapter Operations Manual

**chapter policy**

**CSI**

The Construction Specifications Institute is a non-profit professional association of engineers, architects, contractors, representatives and others involved in the writing and interpretation of construction specifications.

**chapter goals**

To improve the form and content of specifications as applied to construction

To collect and disseminate to its members concise information about matters pertaining to construction specifications

To promote understanding and awareness of problems of all groups contributing to and using construction specifications and to improve methods of communication among these groups

**programming goals**

Programs which will increase the attendance and percentage of attendance at meetings

Seminars which will have interests to a broader base of the membership

Increased participation in the Products Fair both in number of booths and in attendance

**membership**

Applications for Membership in CSI are available at Chapter Membership Meetings or from the Membership Chairman, Pat Murphy at Western Block, Inc. 6330 S.E. 101st Avenue, Portland, OR 97266 (503)777-2204. Return applications with check to Pat Murphy

**editorial comment:**

Congratulations to Dick Gira who started this summer without an educational committee and before the September chapter meeting has more than 14 committee members working on 7 educational seminars. Dick's hard work this summer will be of great benefit to the chapter members. Our chapter has a history of successful seminars and this year we have 3 seminars co-sponsored with the Institute, similar in format to last year's Division 1 Seminar

I feel that sponsoring Educational Seminars and developing Technical Documents are the two most important tasks of our Chapter. With Dick Gira leading the Educational Committee and Lee Kilbourn leading the Technical Documents Committee, we have excellent leadership in both of these areas

**predicator policy**

Definition: The Predicator is a monthly newsletter of the Portland Chapter, CSI, published September thru June

Circulation: 500 copies distributed to chapter members, architectural and engineering firms in Oregon and Southwest Washington, owners, representatives, educators and selected CSI Chapters

Advertising: The Portland Chapter appreciates the support of Predicator advertisers. Full page camera ready two or one sided inserts will be accepted for distribution inside the Predicator if 500 copies are received by the advertising manager by the publication deadline with a check for \$90.00. Business card ads will be printed for \$12.00 per issue or \$100.00 per year (10 issues)

Editorial Policy: The Predicator acts as a moderator without approving, disapproving, or guaranteeing the validity or accuracy of any data, claim or opinion. The opinions expressed by authors do not necessarily reflect the official views of the Portland Chapter or the Institute. Advertising of products or services does not constitute an endorsement by the Portland Chapter or the Institute. Typed copy or camera ready advertising will be printed if received by Friday following second Tuesday of previous month

Editorial Goals

1 To inform the membership of Chapter, Regional and Institute goals and activities

2 To provide a forum for members of the Chapter, Region and Institute

3 To inform members on local construction industry activities

If you have not joined a committee, then I would like to invite you to scan the committee list on the back page and volunteer some of your talents to the Portland Chapter. The benefits you receive from membership in the Portland Chapter are directly related to the amount of energy you put into the Chapter

Dennis



**chapter board of directors**

Rod Moorman	80	President	(503)234-3361 Ext 5375
Don Eggleston	81	President Elect	(503)228-6444
Warren Koepke	80	Vice-President	(503)643-9491
Mary Alice Hutchins	82	Secretary	(503)223-2920
Don Ashton	80	Treasurer	(503)221-0742
Stan Nelson	81	Director	(503)285-2856 or (206)696-1651
Jane Sampier	81	Director	(503)234-0281
Ivan McCormick	82	Director	(503)226-1431
Les Seeley	82	Director	(503)234-0281
Bob Klas		Past President	(503)222-4221

**chapter committees**

<b>Archives</b>			
Chairman	Mary Alice Hutchins	(503)223-2920	
<b>Audit</b>			
Chairman	Dexter Walter	(503)655-7166	
<b>Awards</b>			
Chairman	Dexter Walter	(503)655-7166	
<b>Chapter Affairs</b>			
Chairman	Ivan McCormick	(503)226-1431	
<b>Education</b>			
Chairman	Dick Gira	(503)234-0281	
Institute Education Committee	Participating		
Coordinators	Larry Arnold	(503)222-5384	
Seminar #1	Jeff Beukema	(503)234-0281	
Seminar #2	Tom Young	(503)224-1940	
Seminar #3	Tom Lundy	(503)292-2191	
Seminar #4	Bob Klas	(503)222-4221	
Seminar #5	Dick Gira	(503)234-0281	
Seminar #6	Sam Ream	(503)227-3176	
Seminar #7	Keith Schaber	(503)636-0815	
<b>Committee Members</b>			
	Bret Biggs	(503)222-9367	
	Stan Carper, Jr.	(503)655-5115	
	Robert Inouye	(503)234-0548	
	Joe Lane	(503)284-1508	
	Jimie Luey	(503)228-9468	
<b>Hospitality</b>			
Chairman	Jane Sampier	(503)234-0281	
<b>Liaison</b>			
Chairman	Bob Klas	(503)222-4221	
<b>Membership</b>			
Chairman	Pat Murphy	(503)777-2204	
<b>Products Fair</b>			
Chairman	Stan Nelson	(206)696-1651 or (503)285-2856	
<b>Committee Members</b>			
	Rustin Gesner	(206)695-5505 or (206)696-9881	
	Ivan McCormick	(503)226-1431	
	Larry Brown	(503)620-1014	
	Don Eggleston	(503)228-6444	
	Lee Kilbourn	(503)224-3860	
<b>Program</b>			
Chairman	Jim Davidson	(503)226-3508	
<b>Committee Members</b>			
	Ed Charles	(503)234-1484	
	Jim Grady	(503)228-5151	
	Jeff Shearer	(503)227-1426	
<b>Public Relations:</b>			
Chairman	George Aldridge	(503)288-0181	
<b>Publications:</b>			
Editor	Dennis Obert	(503)228-6444	
Associate Editor	Open		
Circulation	Lee Kilbourn	(503)224-3860	
Layout	Mike Gaddis	(503)228-6444	
Technical Editor	Andrew Olson	(503)249-2000 Ext 4111	
Ad Manager	Cristal Johnson	(503)234-0281	
Photographer	Open		
Typing	Janet Hill	(503)223-8231	
Columnist	Ken Searl	(503)223-1181	
Reporter	Perky Kilbourn		
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**construction specifications institute, portland chapter****the predicator**

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## moorman's meanderings: the specifier's role in communication

By Rod Moorman

Specifiers, industry representatives, architects, and engineers are deeply involved in communications in your everyday work. Everyone spends a great amount of time communicating. The children at play, the mother running a household, the bachelor, the policeman; everyone. Those of you who are involved in the construction industry specification business are professionals dealing in communications.

One of the purposes of the Chapter, as stated in the Bylaws, is to promote communications among people interested in specifications. One aspect of communication is meetings. The industry representative's profession is conducting meetings, many of them may be a one-on-one type. Consequently, he must excel in communication, or he is not fully performing his job. However, specifiers must also communicate in meetings.

The specifier must also conduct meetings. As a professional he must insure these meetings are well conceived. A well conceived meeting will conserve everyone's time and effort. A poorly conceived meeting results in wasted time and effort.

Whether you are working on selling a project, a design concept, a product or are disseminating information, the time to sharpen your skills is now. You have a technical and professional obligation to exert your influence towards having good meetings. We must do better.

## november chapter meeting

Date: Tuesday, November 13, 1979  
Time: 5:30 PM. Social  
6:00 PM. Dinner (\$7.75)  
7:00 PM. Business Meeting  
7:30 PM. Speakers  
Subject: Mechanical Contractors,  
Problems and Solutions  
Speakers: Plumbing, Heating and  
Cooling Contractors of  
Portland  
Place: Mallory Motor Hotel  
729 SW 15th Avenue  
Portland, Oregon  
(503) 223-6311

Background: The Portland Chapter will share this meeting with the Portland PHCC organization to discuss common problems and possible solutions.  
Dinner: Call CSI Office at 223-8231  
Reservations: by noon on Monday,  
November 12, 1979. No  
Required: shows will be billed for the price of the dinner. Members, guests and spouses are invited.

## december chapter meeting

Date: December 7, 1979  
Subject: 20th Anniversary Party,  
banquet and roast  
Speaker: Barney Keep, Master of  
Ceremonies  
Place: Sheraton Inn — Portland  
Airport

The Chapter will be providing opportunities during the next year for you to sharpen your communications skills. I hope you all will be able to take advantage of these opportunities.

The first opportunity provided by the Chapter will be a mini-seminar on the afternoon of October 9 before the Chapter meeting. This seminar will be repeated in the evening after the Chapter meeting. The

## portland chapter C.S.I. to celebrate 20th anniversary

The Portland Chapter of the Construction Specifications Institute will celebrate its 20th anniversary as a Chapter chartered by the National Institute.

The membership is planning a gala party on the evening of December 7 at the Portland Airport Sheraton Hotel. All members, guests, and those interested in the construction industry are invited to attend. The evening will be set aside for reminiscing and fun. Attitude adjustment period will begin at 5:30, dinner at 7:00 with an entertaining program scheduled after dinner.

Bob Klas, past president of the Portland Chapter is chairman of the event. Bob is soliciting any memorabilia people have to lend: old newsletters, slides or photographs of old chapter or regional conferences. He urges all regional soothsayers to come forward with their accounts of people, activities and events out of the past. Anyone with sage comments or an interest in this program should contact Bob Klas, Richard C. Ehmann and Assoc. — Architects and Planners, 4504 S.W. Corbett St., Portland, Oregon 97201, 503/222-4221. Interesting stories are already emerging. Exposes on many of the long standing members are surfacing and will be made public at this meeting.

Ken Searl, Margie Largent, Larry Arnold, Dick Ehmann, Larry Brown, Gordon Todd, Mary Alice Hutchings, Don Ashton, Hunt Jones, Warren Koepke, Don Walton and Lee Kilbourn, we suggest that you folks best check into these stories and then ask the question: "Does your behavior uphold the integrity of the Institute?"

subject will be communications, one-on-one and group meetings. Later in the year there will be a seminar on product representation.

If during the year the Chapter has improved the communication skills of the membership, we have accomplished part of our purpose. I think these seminars will accomplish this. I hope you take advantage of them.



## BS by KS

Basic Specs By Ken Seerl

Recently I was talking to one of our local CSI members who is vice-president of one of the larger contracting firms in Oregon, and the subject of monotony or boredom was brought up, and we both agreed that in the contracting and architectural professions the only time we had any monotonous moments is when work was very slack.

It seems that when work is at its greatest just the opposite of monotony occurs. There are problems to solve which can be most trying, but usually something suitable to all concerned is accomplished.

We both decided that even though at times everything was bleaker than a west Kansas hail storm, there was a considerable satisfaction not just in having problems but in solving them to the satisfaction of all or most of the people involved. Over the years one learns there are certain precautionary measures that must be applied to various problems as they arise; and believe me, many times an old problem comes disguised in a new approach.

Here of late an old problem is surfacing again, and that is there are more out-of-town and out-of-state sub-bidders submitting bids even though they are not specified or acceptable to the architect and owner.

After giving it a lot of thought our firm now lists in certain specification sections just who is acceptable to supply or manufacture products and/or services and show their addresses and telephone numbers. We do not have anything against out-of-towners and out-of-staters, but unless they have a local branch or some firm designated to act for them we just won't list them.

Now some of you may ask if this is legal on public works, and as I am no lawyer I cannot give you an expert opinion. I do know, however, that within the last few years in several court cases involving specifying only one manufacturer or one product, courts upheld the specifier. This includes a public body in Ohio involving the specification of a plug valve for water treatment facilities. On this basis I feel our necks are not out far in specifying not only certain products but certain suppliers, manufacturers or installers.

## lets ask for "good manufacturers recommended specifications"

By Dennis Obert

It's nice to see our Chapter education committee and the Institute sponsoring seminars to help the industry members improve their skills. Seminar #5 on "Effective Construction Product Representation" is designed to help the industry members.

The Specifiers in our chapter could receive a spin-off benefit of having better representation from the local architectural rep's.

When an "Archy Rep" visits our office, I am looking for the answers to two questions.

- 1) Is this Product or Service appropriate for this Project?
- 2) What specification information or requirements does the manufacturer and/or installer recommend for this project?

The first question is usually handled by the project manager, owner, cost estimator or, if budget allows, the designer.

As a spec writer, the second question is mine. With good answers to the second question the writing of a product specification is not difficult. The best answer an Archy Rep. can give to the second question is Manu-spec.® Manu-spec.® can save me from one to eight hours of spec writing time for each new product or service which I specify.

If you are an Archy Rep., and your firm does not participate in the Manu-Spec® Program, I would recommend that you at least let the Company know that Manu-Spec® would help you.

I would also like to see local Archy Rep's examine their manufacturer's recommended specifications and see that they follow the CSI three part format. If they do follow the three part format then look closely at the sentence structure.

According to the CSI Manual, "There are three basic sentence structures that can be used to convey specification requirements clearly and concisely the imperative mood the indicative mood and streamlining."

## educational seminars

### Seminar #2

Program:	Designing and Practicing Energy Conservation
Sponsor:	Portland Chapter, CSI
Coordinator:	Tom Young
Fee:	\$25.00 members, \$25.00 non-members
Time:	3:00 to 9:00 p.m.
Date:	Wednesday, October 24, 1979
Location:	Holiday Inn — Portland Airport
Meal:	Dinner included.
Speakers:	1. George Tsongas, Associate Professor of Engineering, Portland State University 2. Omar Mithun, Architect, Seattle, Washington 3. Dr. Jay McGraw, Consulting Engineer, Denver, Colorado
Topics:	1. Energy Conservation Consciousness 2. Architects viewpoint of design for energy efficiency 3. Engineers viewpoint of energy audits and design. 4. Panel Discussion.

## specification laws

by Murphy

"Tape doesn't stick where you want it to. Tape only sticks to itself."

If your manufacturer's recommended specification has imperative mood used for Parts 1 and 3 and streamlining used for Part 2, then thank them and go sell your product. If your recommended spec is filled with the indicative mood, as most spec's are, then ask your company for a re-write of the recommended spec. The only place that use of the indicative mood is appropriate is in Division 1.

Improper sentence structure is cumbersome, takes longer to write, proofread, type, review, correct, print and use. Save yourself and everyone in the construction industry time and money by insisting on short, clear recommended spec's based on 3-part format and imperative or streamlined sentences. Nothing less, nothing more.

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**Seminar #3****bidding and award of construction contracts**

(A CSI LEGAL ISSUES SEMINAR) (.6 CEU CREDIT) Hosted by the Portland Chapter February 22, 1980

**PROGRAM OBJECTIVES:**

The bidding and award phase of a construction contract establishes the foundation for a construction project. Inadequate or improper resolution of inquiries and evaluation of bids and bidders can result in the following: renders inability to award a contract, sets the stage for litigation, causes delays and increase costs. This program will improve the understanding of the terms, conditions, rights and responsibilities of those involved in preparation and interpretation of bidding documents through a review of the nature of the documents and pre-award phase of a construction contract.

**TO BE COVERED:**

Competitive Bidding — advantages and disadvantages, Contract Documents — interpreting the language, Contractors — prequalifications and determining responsibility, Materials and Equipment — restrictions and substitutions, Bid Responsiveness, Handling Bidding Mistakes, Handling Bid Protests — private and public contracts.

**SEMINAR LEADERS:**

Mark E. Brown, CSI, is staff attorney with Black & Veatch Consulting Engineers, Kansas City, Missouri. Mr. Brown, at Black & Veatch, is responsible for matters involving contracts for construction and professional services, professional liability, contractor claims, environmental law, federal contracts, insurance and bonds and other legal matters. Mr. Brown is admitted to practice before the Kansas and Federal Courts. He has served as a guest lecturer at the University of Kansas, Kansas State University, and for CSI on matters relating to law and the practice of architecture and engineering.

**COST:**

\$150.00 for CSI Members, \$175.00 for Non-members (\$30.00 discount for registrants to both Legal Issues Seminars.) Includes cost of materials, lunches and coffee breaks.

**LOCATION:**

Nendel's Inn, 9900 SW Canyon Road, Portland, Oregon. Overnight lodging available. Airport and City Center transportation available.

**Seminar #4****project close-out**

(A CSI LEGAL ISSUES SEMINAR) (.6 CEU CREDIT) Hosted by the Portland Chapter February 23, 1980

**PROGRAM OBJECTIVES:**

It is in the final stages of a construction project that the adversary relationship between the Owner or Owner's Representative and the Contractor can reach its peak. It is at this point as the contract is being closed out that the claims and counter claims are made as the two parties to the construction contract seek their basic goals — the contractor to maximize or protect profit while the Owner seeks to minimize costs and gain the maximum return for his investment. The program topic and issues to be discussed are those found to be critical problems during the close-out phase of a construction project. The program will deal with the identification of problem areas and a discussion of the rights and remedies of the parties. Applicable law will be examined as well as relevant court decisions, to provide an awareness of the problems associated with this phase of the contract.

**TO BE COVERED:**

Change Orders — types and problems, Retainage — How much can be withheld? Substantial Completion — When achieved and what effect, Liquidated Damages and Damages for Delay, Warranty and Warranties — Express and implied, Correction Period.

**SEMINAR LEADERS:**

Mark E. Brown, CSI, is staff attorney with Black & Veatch Consulting Engineers, Kansas City, Missouri. Mr. Brown, at Black & Veatch, is responsible for matters involving contracts for construction and professional services, professional liability, contractor claims, environmental law, federal contracts, insurance and bonds and other legal matters. Mr. Brown is admitted to practice before the Kansas and Federal Courts.

**COST:**

\$150.00 for CSI Members, \$175.00 for Non-members (\$30.00 discount for registrants to both Legal Issues Seminars.) Includes the cost of materials, lunches, and coffee breaks.

**LOCATION:**

Nendel's Inn, 9900 SW Canyon Road, Portland, Oregon. Overnight lodging available. Airport and City Center transportation available.

**Seminar #5**

Program: Effective Construction Product Representation  
 Sponsor: Institute and Portland Chapter, CSI  
 Coordinator: Dick Gra  
 Fee: \$125.00 members, \$150.00 non-members  
 Time: Tuesday, April 22, 1980  
 Date: Tuesday, April 22, 1980  
 Location: Nendel's Inn, 9900 SW Canyon Rd., Portland, Oregon  
 Meal: Lunch included  
 Speakers: Charles Chief Boyd, CSI, The Boyd Group Inc., Architects, Tulsa, Oklahoma

**Seminar #6**

Program: Insurance  
 Sponsor: Portland Chapter, CSI  
 Coordinator: Sam Ream

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Contact: Don Walton at Modernfold Northwest, 643-9491 or his home at 646-2079.

**chapter meetings in the northwest region**

Cook Inlet: Third Wednesday. Call Harley Hightower, 276-2242  
 Puget Sound: Second Wednesday, Latitude 47  
 Spokane: Second Thursday, Fireside Inn  
 Willamette: Third Thursday  
 Valley: Bev's Steak House  
 Tri Cities: Third Thursday  
 Contact Robert Bready



## chapter board meeting report

September 13, 1979 12:00 to 1:30 p.m.

Members Present Ashton, Klas, Koepke, McCormick, Moorman, Nelson, Sampier

Guests Present Gira, Obert, Swinney

### Program Report

Two educational sessions for monthly meetings are scheduled on October 9, 1979, one at 3:00 p.m. and one at 7:30 p.m.

### Publications Report

The Predicator will not be published by Times Litho. Joan Swinney will assist in writing and editing of the Predicator. Janet Hill will assist with typing and production. Dennis Obert will coordinate the schedule with Joan.

Anniversary Party Committee will meet on the first Monday of the month.

### Special AIA House Committee Report

Joan Swinney reported on activities of AIA House Committee which include expansion and renovation of AIA/CSI office space.

## treasurer's report

Current Monthly Treasurer's Report for Period Ending 31 August 1979 (4th month of Fiscal Year)

Cash .....	\$	0.00
Checking Account .....		104.26
Savings Account .....		6,289.44
Accounts Receivable .....		551.95
Postal Permit #1737 Portland ...		104.32

Accounts Payable .....	\$	0.00
NET ASSETS .....		\$7,049.97

## committee meetings

### anniversary party

Monday, November 5, 1979, 12:00 noon  
Ehmann & Associates, 4504 S.W. Corbett Avenue, Portland, Oregon

Monday, December 3, 1979, 12:00 Noon  
Ehmann & Associates, 4504 S.W. Corbett Avenue, Portland, Oregon

### technical documents

Tuesday, October 30, 1979  
Tuesday, November 27, 1979

### chapter board meetings

Tuesday, November 6, 1979, 12:00 Noon,  
CSI Office

Tuesday, December 4, 1979, 12:00 Noon,  
CSI Office

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**modernfold northwest and pacific interiors moved to new location**

**northwest region officers**

Modernfold Northwest and Pacific Interior Construction Co. have moved into new office and warehouse facilities. Their new location is 6775 SW 111th, Beaverton, Oregon 97005. Their new building is in the Bevest Industrial Park which is located northwest of Highway 217 and Denny Road.

Modernfold Northwest is the franchised distributor of Modernfold products in the Oregon and southwest Washington area. Mr. Arnold Fredrickson, president of Modernfold Northwest, stated their company has been a distributor of folding doors, operable walls and interior space dividers for over 30 years in the Oregon and southwest Washington areas.

Pacific Interior Construction is the franchised contractor for Vaughn Interior Wall Systems. They will occupy another portion of the building. Mr. Jim Van Lente, president of the company, indicated they previously occupied two buildings in Wilsonville and Tigard.

Between the two companies, they can provide any type of interior wall system or space divider a customer would want. To acquaint architects, owners, and general contractors with their companies and services, they are planning an open house Friday, November 16th from 11:00 A.M. to 8:00 P.M. All members of C.S.I. and their guests are invited to attend. Please phone and advise if you would like to attend the open house. A buffet lunch and dinner is planned with refreshments along with a tour of the facilities. A fun time is expected by all.

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503/485-1941

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Bill Minks  
509/535-8500

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Ken Searl  
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**Liability Committee**  
Al Bannon  
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**institute officers**

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**Technical Documents**  
Rob MacDonald  
206/226-8800 Ext. 181

**Nominating Committee**  
Larry Brown, FCSI  
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**Long Range Planning**  
Bob Fritch  
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### Director 1982

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# the predicator



Volume 19, Number 3

constructions specifications institute, portland chapter

November, 1979



## moorman's meanderings:

### energy

By Rod Moorman

Energy how does it affect you the specifier? Or more appropriately, how can you the specifier, enter into the battle to combat energy waste?

Thirty-five percent of the energy consumed in this nation is used in commercial and residential buildings. A significant amount of this energy is wasted. As the specifier of the materials used in the construction of these buildings, you play a key role in the battle to reduce energy waste.

To provide less than the height in energy consciousness through the specification is to perform a gross disservice to both the client and society. The costs of energy are soaring. Sources of cheap energy have become scarce, and sources of costly energy must be used to meet new demands. The costs of materials, construction practices, and operation are matters of equal concern. Thus, there is a great urgency that specifiers write a specifications relative to energy conservation specifications which reflect life cycle costing, economics, energy efficient methods of construction, and alternatives in materials. Every kilowatt saved is a kilowatt available to replace a more costly source of energy.

As specifiers we cannot wait for laws, regulations, and codes to force us into the mode of energy consciousness. If we lead the way, the political process will follow and a better set of standards and codes will result. However, if we follow, the codes and standards will reflect political solutions rather than technical solutions. Specifications can make the difference between energy conscious and energy wasteful projects. And specifiers are better qualified than politicians to shape and determine the codes and standards for energy conservation.

There are real problems; we individually and as a nation have to kick the energy waste habit; we have to change our life styles without destroying our life styles; we have to act now so we do not have to react later. To do this we must set an example in our specifications. Let's change because we are aware of the problems and know some of the solutions.

## december chapter meeting

Date: Friday, December 7, 1979  
Place: Airport Sheraton Inn  
Time: 5:30 PM Social  
7:00 PM Banquet

Cost: \$25.00 per couple  
Program: Twentieth Anniversary Celebration with after dinner reminiscences by Barney Keep, Master of Ceremonies, and the Portland Chapter CSI.

RSVP: Dinner reservations will be required by November 30. Members, guests, and spouses are invited. Call Janet Hill, 223-8231.

## november chapter meeting

Date: Tuesday November 13, 1979  
Place: The Mallory Hotel  
Time: 5:30 Social  
6:30 Dinner  
7:30 Meeting  
Cost: \$7.75 per person  
Program:

### Mechanical Contracting: Problems and Solutions.

A panel has been formed and has been meeting to air problems and reach possible solutions to assist the specification writer in the difficult area of mechanical contracting.

The panel will be moderated by Andy Hard, the new executive director, Portland Association Plumbing Heating, Cooling Contractors and will include: Jim Davidson, Cronin Company; Bob Strickler, Keith Kruchek, Cons Engineers; Frank Quinn Shepler Refrigeration Phil Law, Law & Sons; Ron Travers, Travers/Johnston P.C.; Russ Wilson, Cristal Grady, Harper Gen. Con.; John Colyer, Trane Company.

Phone your reservations early, 223-8231. We expect a good representation from PHCC members. Reservations will not be taken after Monday, November 12 at 12:00 Noon.

## portland chapter history

By Richard Ehmann

On December 31, 1958, Ralph Appleman received a letter from W. H. Barrows, Institute Vice President and Chairman of the National Chapter Development Committee. The letter suggested contacting Al Barnes in Seattle regarding the organization of a Portland Chapter. At that time, only five chapters existed in the West: Los Angeles, organized in 1953; San Diego and Sacramento, 1954; San Francisco, 1955; and Puget Sound in Seattle.

Fifteen people attended a formative meeting on January 29, 1959, and appointed Charles Selig, Lowell Anderson, Kingsley Church, Jim Hickey and Ralph Appleman to serve on a steering committee. Membership forms were received on February 3. By February 7, the steering committee had completed the first draft of the bylaws.

On April 2, an organizational meeting attended by 31 people was held at Benson High School. Those attending gave provisional acceptance to the bylaws and nominated twelve candidates for election to a board.

(please turn to page 2)



(continued from page 1)

This date — April 2, 1959 — was the first formal meeting of the Portland Chapter CSI functioning under bylaws and operating in lieu of elected officials.

At the next meeting in September, the first Board of Directors was elected into office. The charter request was signed by the Chapter members, and the program was devoted to the subject of "Built-up Roof Specs." The Chapter's first president was Lowell Anderson, the vice president was Ralph Appleman, and the secretary-treasurer was Jim Hickey.

The Predicator first appeared in November announcing the next program on "Liability Insurance" presented by Jack Annand and a panel of insurance agents.

The December 1959 meeting, with 25 in attendance, concluded almost to the day a full year of life for the Portland Chapter. The official charter, however, did not catch up with the facts until well into 1960.

To mark the twentieth anniversary of the Portland Chapter CSI, a gala celebration is planned for the evening of December 7, 1979, at the Airport Sheraton. The cost of the event is \$25.00 per couple. Reservations must be made by November 30, both to assist the committee and to ensure a place for you and your spouse or guest.

We look forward to seeing you there with or without your date or spouse.

## open house planned

Modernfold Northwest in conjunction with Pacific Interior Construction are planning an open house in their new building. Architects, general contractors and people associated with the construction industry are invited to attend this get acquainted party. Refreshments and a buffet will be set up for lunch and dinner from 11:00 A.M. to 8:00 P.M. on Friday, November 16, 1979. A tour of the office and warehouse plant will be conducted to acquaint guests to their products and services. If you would like to attend this "people and product encounter" they would appreciate a call from you so adequate food and beverage requirements can be determined. However, Warren Koepke, our C.S.I. vice president and part owner of Modernfold Northwest, asked that you **don't** stay away because you forgot to R.S.V.P. Warren and his business associates look forward to the opportunity to meet old friends and make acquaintances with new people in this area.

## let's organize the short spec

By Dennis Oberl

Anyone working with specifications for a reasonable length of time recognizes the value of the standard three-part section organization and its accompanying standard page format as outlined in the CSI Manual of Practice, Chapters 6 and 7. Specifiers rely on these standards because they are clear, concise and well researched. I commend the work CSI has done to raise the quality and increase the consistency of the specifications produced in the architect's office through the use of these aids.

However, CSI's task of improving the quality of the specification is not finished. While working with the Chapter's Page Format Committee last year I discovered situations in which the standard is not applicable.

When applied to "Small Projects" such as interior renovations, small additions, single family residences, or to projects with the owner acting as the general contractor or the general contractor acting as the owner, the section/page format is cumbersome.

For example, the architect's fee for a small project often limits the time spent on spec writing to fewer than 24 man hours thereby limiting the number of pages the spec writer can produce. In many of these small projects, it becomes mandatory that the spec writer shorten the average section to less than one page. To continue listing three-parts and standard article titles as prescribed by the section/page format is cumbersome.

A more concise approach to shortening sections, particularly those articles containing only one paragraph, would be to drop the standard article titles and list paragraph titles only as they are needed. Masterspec® attempts to modify its short form sections by dropping standard article titles. However, its attempt is poorly organized and deviates from the three-part section by calling out "products" and "execution" items in the same paragraph, sometimes in the same sentence.

I believe it's time that CSI recognizes the need for a clear, well organized short form of section/page format for small projects. If it takes the Portland Chapter to get this started, then count me in.

## january chapter meeting

Date: January 8, 1980  
Subject: 1980 Economic Outlook  
Place: Mallory Motor Hotel

## missing persons bulletin

The Anniversary Party Committee, chaired by Bob Klas, seeks your help in locating these missing persons — all former members:

Vyrl D. Goff  
Kenneth G. Waller  
Albert E. Bittner  
George M. Cunningham  
James G. Fleskes  
Russ Gamble  
Lawrence J. Hayward  
George B. Irish  
Thomas A. Kommers  
John W. McCollom  
Carl E. Nelson  
Wayne L. Reid  
Richard D. Wheeler  
Noel A. Wood

Additionally, the committee would like to borrow photographs or slides of chapter activities for use in the anniversary program.

If you have information about any of the missing persons or have slides/photographs to share, please contact Bob Klas, 222-4221.


## sprinkler experience in high-rise buildings

The growing concern for fire in high-rise buildings ten years ago prompted the New York Board of Fire Underwriters to initiate a study on the effectiveness of automatic sprinkler protection in high-rise buildings. Based upon data collected by the New York Fire Department and the Fire Patrol, a ten year study confirming the effectiveness of sprinkler protection unfolded. This is **TR 79-1 "Sprinkler Experience in High-Rise Buildings"** authored by W. Robert Powers, P.E., Superintendent. The New York Board of Fire Underwriters and published by the Society of Fire Protection Engineers.

In high-rise buildings (other than office buildings) 1,394 fires were recorded in the ten year period. Of those, 875 (63 percent) were extinguished by the operation of a single sprinkler head. The next 296 (21 percent) were extinguished by the operation of two heads. Similar data is presented on high-rise office building fires and low-rise building fires. The value of sprinklers as protection against arson is also discussed.

Order from the Society of Fire Protection Engineers, 60 Battery March Street, Boston, MA 02110. The price is \$3.25.





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**portland chapter CSI celebrates 20th anniversary**

**WITH REMINESCENCES BY BARNEY KEEP, MASTER OF CEREMONIES AND THE PORTLAND CHAPTER**

**Friday, December 7, 1979**

**Airport Sheraton Inn**

**5:30 PM Social No Host Cocktails**

**7:00 PM Banquet Prime Rib**

**Members, Spouses, Guests Invited**

**\$25.00 Per Couple**

**Reservations Required By November 30**

**Call Janet Hill, 223-8231**

**20th anniversary reservations**

NAME \_\_\_\_\_

ADDRESS \_\_\_\_\_

TELEPHONE \_\_\_\_\_

NUMBER OF RESERVATIONS \_\_\_\_\_ AMOUNT OF CHECK \_\_\_\_\_

SEND TO THE PORTLAND CHAPTER CSI  
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# northwest region: 1980 regional conference

WHO The Construction Specifications Institute  
 WHAT Northwest Regional Conference  
 WHERE The Embarcadero Newport Oregon  
 WHEN April 17th through 20th 1980  
 HOST Willamette Valley Chapter  
 THEME 'How to Cope with Tomorrow Now That It Is Here'

## AGENDA

### Thursday, April 17, 1980

3 p.m. Registration Desk opens  
 4 - 6 p.m. Coordinating Council Meeting  
 6 - 7:30 p.m. No Host Cocktails  
 7:30 p.m. Dinner at Embarcadero - Don Hunter Side Show

### Friday, April 18, 1980


8 - 9:30 a.m. Coordinating Council Meeting (if necessary)  
 10 - 12 noon Technical Meeting  
 12 - 1 p.m. Luncheon at Embarcadero  
 1 - 2 p.m. Word Processing & Computer Equipment Demonstration  
 2 - 4:30 p.m. Region Business Meeting  
 2 - 4:30 p.m. Equipment Demonstration for Secretaries  
 Evening Free Time

### Saturday, April 19, 1980

8 - 9:30 a.m. Region Committee Meetings  
 10 - 12 noon Technical Meeting  
 12:30 - 1:30 p.m. Luncheon at Embarcadero  
 Afternoon Free Time (Region Committee Meetings — if required) (Word Processing & Computer Equipment available)  
 6 - 7:30 p.m. No Host Cocktails  
 7:30 p.m. Awards Banquet — Cook Inlet invitation

### Sunday, April 20, 1980

9 - 12 noon Region Business Meeting (if necessary)



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## chapter board meeting report

October 2, 1979 12:05 to 1:30

**Present:** Moorman, Nelson, Sampier, Oberl, Kilbourn, Searl, Todd, Largent, Gira, Klas, Eggleston, Seeley, McCormick, Hutchins, Koepke, Ashton, Murphy, Hill.

**Twentieth Anniversary Party:** Announcements will be distributed to the Chapters and the Regions. The November Predicator will contain an article. Barney Keep will serve as Master of Ceremonies. The Chapter will provide wine and hors d'oeuvres.

**Long Range Plans:** At this time the Chapter has no Long Range Planning Committee. The Audit Committee should study chapter operations, bylaws revisions, chapter finance, and chapter policies.

**Bylaw Amendment:** The following amendment will be presented to the membership at the October meeting: "The Board shall elect by majority vote from the membership of the Board or past Boards, a President, Vice President, Secretary and Treasurer. The President must have served at least one year on the Board."

**Treasurer's Report:** Current Monthly Treasurer's Report for Period Ending September 30, 1979

Cash .....	0 00
Checking Account .....	143 12
Savings Account .....	6 289 44
Accounts Receivable .....	507 95
Postal Permit #1737 .....	204 32
Accounts Payable .....	0 00
Net Assets .....	7 144 83

### chapter board meetings

Tuesday, December 4, 1979, 12:00 Noon, CSI Office

## spec writer wanted

A medium sized engineering firm in the Seattle area is seeking a "Certified Construction Specifier" with five or more years full time experience in the preparation of the architectural, structural, and civil portions of specifications for commercial, industrial manufacturing, and research/test facilities. B Arch or BSCE degree preferred but not required. Interested parties should send resume to JT Bugbee, AIA, CSI, P.O. Box 88791, Seattle, Washington 98188.

## BS by KS

Basic Specs by Ken Searl

For some time now there has been a trend for attorneys to name almost anyone and everyone in professional liability action whether or not reasonable cause had been established. This has caused much concern among design professionals. Most claims have not ended in judgements and in many cases were dismissed prior to court action. However, legal fees were spent, time has been lost, and those named have experienced mental anguish and possibly injured reputations.

Up until now this has all been a bad news story, but hope is on the way. The state of California has passed a new law effective January 1, 1980, that is aimed at curbing a practice many consider to be one of the most blatant abuses of the legal system to have been perpetrated in modern time: the naming of anyone even remotely connected to a building project, regardless of his or her legal liability or even involvement in a loss. Clearly the strategy here is based on the hope that all parties will cheerfully contribute to a settlement rather than incur the costs of defense. One downstate engineer was involved in such a suit, and even though he was not directly involved and he was summarily dismissed, it cost him much more than the total fees received for the project in questions.

In California it now becomes the duty of an attorney to make a reasonable preliminary investigation before alleging professional negligence. If this is not done, an attorney may be found guilty of unprofessional conduct and subject to disciplinary action. I understand that practically everyone in California is for this new law except the California Trial Lawyers' Association.

I strongly suggest that efforts should be made by all concerned to get a similar law passed in your state. Involve professional associations and individuals who can help get the job done. I know we would all feel much better with a similar law in our own state.

In the meantime I offer some rules that may be helpful in the event you become involved in professional liability action. These rules are taken from the October 1979 issue of the *Communique* published by the design professionals insurance company of San Francisco. California and believe me they make a lot of sense. I want to particularly stress rule No. 5 regarding detailed records. If you do get into court detailed records may be your greatest asset.

**RULE NO 1 Remain Calm.** Seek to fully understand the other party's position and gather all relevant factual information.

**RULE NO 2 Do Not Immediately Assume That You Are Responsible.** No matter how bad the situation, even if the facts appear to indicate that responsibility is yours, do not admit fault until you have had an opportunity to investigate thoroughly.

**RULE NO 3 Keep The Lines Of Communication Open.** Resist the temptation to avoid facing the problem. The other party may not be the unreasonable antagonist you thought he was, and the only way to find that out is to keep talking.

**RULE NO 4 Call In Outside Help.** In serious crisis or conflict situations, stress is often unavoidable and objectivity difficult to sustain. Seek the advice of experts trained to respond to crises and ready to help. Call your insurer and your attorney when you sense that a situation may be deteriorating into a claim.

**RULE NO 5 Document And Photograph.** Keep detailed records of all events surrounding the crisis. Make notes of telephone conversations, confirm important points in writing, and take extensive photographs of the disputed subject matter.

**RULE NO 6 Seek Alternatives For Resolving The Problem In Coordination With Others.** Remain flexible and make an effort to work toward the development of mutually satisfactory solutions.

## ANSI publishes new catalog

Major new features of the 1980 edition include:

A compilation of the designations of all standards listed in the catalog; each entry in the designation list references the subject heading under which the complete entry appears; gives the price of the standard; indicates if it is new to the 1980 edition; and provides discount information, if applicable.

Reorganization of content so that "families" of standards are grouped together.

Refinement of subject headings, based on users' suggestions to facilitate location of standards.

For additional information call ANSI's Communications Department, 212/354-3320 or write American National Standards Institute, Inc., 1430 Broadway, New York, New York, 10018.



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## moorman's meanderings

By Rod Moorman

Each day lawyers and politicians hand down new laws, regulations or court decisions to the design profession, each time restricting further the specifier's, the designer's, or the material supplier's latitude in using his or her trained and experienced judgement

A recent proposal by the Federal Trade Commission to place all standards under federal regulation is a prime example of this trend. The proposed FTC regulation contains more than twenty sections covering duty-to-act, certification and procedures. While I will not go into details here, I urge each of you to become familiar with those details, because this regulation will have a tremendous impact on our use of volunteer standards. The proposed FTC regulation would place the federal government in the position of controlling the volunteer standards produced by organizations such as ICBO, ANSI, ASTM, UL, IEEE, ASME, ASCE, AWWA, AASHTO, and numerous others.

Historically, codes have been born out of need; albeit, the need, at times, may have

been imaginary, reactionary, or a result of some narrow, special interest group. However, at times, this need developed from lack of action by professional groups resulting in codes and regulations prepared without adequate consideration given to the construction industry or the design profession. Strict application of codes relating to accessibility for the disabled, to vapor retardation, or to fire control are obvious examples of regulation precluding optimum design. Regulations admittedly, have been needed; but strict application has restricted the opportunity to use expert judgement and has resulted in impractical design.

Although CSI policy restricts the chapter from engaging in activities which influence political decisions, it does not restrict us as individual members from participating in matters of professional concern. We should apprise ourselves of proposed federal, state, and local legislation. We should convince legislators that as architects and engineers, we have the training and the experience to make good design decisions; we know which regulations should be required, which should be applied flexibly, and which should be abolished. It is not necessary for the federal government to regulate every facet of our lives.

## BS by KS

Basic Specs By Ken Searl

What is meant by a specifier's liability? Does it include the specifier, or does it include the entire professional team? What about product liability? For instance if a specifier lists a product which fails, who is responsible? The specifier? The manufacturer? Even the contractor? All of them? Very serious and interesting questions.

Under the old laws designers and specifiers were liable only to the project owner, the party to whom they contracted, and then only until final completion of the project. Most of you probably know this just doesn't hold true in today's world, but what does?

We have been informed by experts in this subject that under the concept of strict liability, including the most recent product liability, it is not necessary to show negligence. Strict liability requires proof of a defective product or that the product is installed in such a manner causing it to become defective, and/or that a defect or installation combination caused harm. Strict liability does not require that the manufacturer be proven negligent in producing the product. You simply show that the product was defective and it caused damage. Where does the specifier fit into all this?

Courts will turn to the specifications, as opposed to the drawings, so now architectural firms discover the specifications, not the drawings, are

(please turn to page 3)

## portland chapter CSI celebrates 20th anniversary

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**Friday, December 7, 1979**

**Airport Sheraton Inn**

**5:30 PM Social No Host Cocktails**

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## 1979 dodge/sweet's construction outlook july 1979 update

### Since February's Update . . .

The course of construction activity in 1979 as emphasized in both our October and February forecasts, is being shaped by two opposing forces

Anti-inflationary restraint on credit and public spending has reversed the nearly four-year expansion of construction contracting

The underlying strength of demand and the absence of overbuilding will limit the reversal to a brief and shallow decline.

Although turning points are difficult to identify as they are happening, it's probably accurate to say that the rate of contracting for new construction reached its peak early in 1979. For a few months the flow of total new construction held steady at this high rate while gains in nonresidential building offset the decline in homebuilding. But by the second quarter the reversal which began with housing, as it usually does, was spreading to nonresidential building.

Considering that monetary restraint has been the basis of the nation's anti-inflationary program during the past six months, these developments were predictable enough. And they were already built into our earlier estimates of 1979 construction activity. However, other less-predictable developments have come along since the beginning of the year and must now be taken into account. Among them: persistence of double-digit inflation; frustration of the oil scarcity; shock of Three Mile Island; the arrival of the "movable recession."

### Nonresidential Building

After a strong first quarter burst of contracting for commercial and industrial projects, nonresidential building eased into a cyclical decline that is only likely to deepen in the mid-1979 environment of economic reversal and energy scarcity.

Within the cyclically-sensitive category of commercial and industrial buildings, the demand for stores and shopping centers is derived mainly from residential construction. Contracting for retail buildings remained high through the early months of 1979 on the strength of 1978's two million unit rate of housing starts but began to weaken in the spring quarter. It is expected that the 15 percent drop already experienced in the rate of housing activity during the first half of this year will have its greatest impact on retail building in the year's second half.

Business capital spending surveys pinpoint 1979 as the year when industry plans its biggest increase for plant and equipment outlays. Only a small additional rise is indicated for 1980, when capacity utilization is expected to be lower than it is at present. Translating these spending plans into contracting for manufacturing buildings requires backing up at least six months, which the typical time span between the start of a project and its maximum cost-expenditure impact. This puts the period of peak contracting for industrial construction mostly in the past — between mid-1978 and mid-1979. It means that manufacturing building contracting is due to lose some of its early 1979 lead (+20 percent over 1978 square footage at midyear), but should finish the year with a solid 10 percent gain.

Office buildings continue to be the construction industry's hottest market. Despite last year's record 50 percent gain in square footage of contracting, the supply of available office space is still short of demand. Although the current backlog of demand — swollen by several years of exceptionally rapid growth of the white collar labor force — could support another large increase in building this year, high interest rates and slowing economic activity will limit 1979's contracting for offices to about 230 million square feet.

Contracting for institutional buildings (schools, hospitals, public administration buildings, etc.) is showing a deceptive gain this year. The source of the current increase (square footage up 7 percent through midyear) goes all the way back to 1977 when the \$6 billion Local Public Works Act temporarily overstimulated this otherwise dormant market. The spurt in 1977 was followed by a setback in 1978 indicating that LPWA funds merely advanced the contracting of some 1978 projects into 1977. By now, all is normal (i.e., dormant) once again in the "no-grow" institutional building market. Because 1978's square footage of contracting was artificially low, however, "normal" in 1979 looks better than it really is.

### Update '79:

Total nonresidential building square footage up 3 percent in 1979 contract value up 10 percent. A lower rate of contracting in 1979's second half as a recession and mounting excess capacity retard commercial and industrial building.

### Total Construction

With the construction cycle reversing its direction in 1979, the year's outstanding features are

- Less housing, more nonresidential construction than in 1978

- A diminishing rate of contracting with each successive quarter
- Physical volume about 5 percent below 1978's peak
- Total construction contract value slightly higher than in 1978

## OFPP would require contractor to continue work after government has breached a contract

The Associated General Contractors of America (AGC) has called on the office of Federal Procurement Policy (OFPP) to revise a proposed clause that would literally permit a Contracting Officer to bankrupt a contractor by refusing to make payments while requiring him to continue performance.

The clause in question appears in OFPP's proposed implementing regulations of the Contract Disputes Act of 1978, Public Law 95-563. The proposed regulations were published in the March 7, 1979 **Federal Register** under the category "Interim Final Rules." When OFPP's first proposal for regulations to implement the Contract Disputes Act was published in January, AGC pointed out the inequity of the proposed clause that would require contractors to continue performance even in the face of a cardinal breach of the contract by the government.

In a letter objecting to the working of the "Interim Final Rules," AGC expressed its "surprise and dismay" that this blanket requirement to continue performance — what we had earlier thought must have been an oversight on OFPP's part — remained in OFPP's redrafted and interim final Disputes Clause.

AGC says that such a requirement "unjustifiably" exceeds the intent of Congress. Furthermore, AGC believes "that in the face of material government contract breach, a board or court would render OFPP's performance requirement unconscionable and therefore unenforceable." AGC concluded its letter by requesting "That OFPP avoid unnecessary costly and time-consuming litigation by revising its Disputes Clause to not require that contractors continue performance in the face of a cardinal breach by the Government."



(continued from page 1)

paramount from a professional liability standpoint. What is the solution to this problem? I list several recommendations, slightly altered and edited by me, from Paul L. Genecki, guest speaker at our 1975 CSI Convention.

1. Be reasonably familiar with materials, products, systems, etc. specified. If items are new, carefully research and analyze them. NOTE: Our recommended CSI Chapter substitution form is a step in this direction.

2. Work closely with the design team relative to specification content while drawings are being prepared. It is beneficial to begin preparing specifications when work on drawings begins. Do not wait until drawings are completed before beginning specifications.

3. Do not over-specify or under-specify. Write your specifications short and simple with enough information for clarity. This skill is the true test of an expert specification writer and it basically comes down to knowing how to put the exact amount of lead on paper, and when to put your pencil in your pocket — and this will vary with each of us. "One man's meat is another man's poison" — so sez Confucius.

4. Use standard specification language. Review the text of specifications to see if it meets the intent of the design and if items specified can meet job and performance requirements.

5. Beware of typographical errors in the final version of specifications. This may result in a few snorts from typing departments, but I well remember two sets of specifications which went out of our office a few years back which plainly stated that "if concrete was defective it would be replaced at owner's expense." It should have read "at own expense" — meaning the contractor, but our typist added "ers" to "own." Luckily both projects had honorable contractors, and no defective concrete was encountered. Normally we don't refer or use the word contractor in the concrete sections, but we now do by using the words "at contractor's expense" and if any typist can copy the word "contractor's" into "owner's," POW! The trap door automatically opens to the basement.

There is much more that can be said on the subject of a specifier's liability. The point I want to make is be alert when you prepare specifications, always remembering that today, proper specifications can mean the difference between survival or failure.

## market for auxiliary electric power systems to triple over next ten years

The market for auxiliary electric power systems used in emergency and standby applications at \$656 million in 1977 will increase to \$2 billion by 1987, according to a new study by Frost & Sullivan Inc. in New York City.

This amounts to a tripling in shipment value, but unit gains will be proportionately less — 291,000 in 1977 increasing to 590,000 by 1987 — signifying a 50 percent increase on the price of each unit shipped 10 years out, according to the 196-page study.

Entitled "Auxiliary Electric Power Systems: Markets and Technology," the study cites a growing market presence for diesel engines. It also notes two cross current trends. One is toward prime power generation (cogeneration) for the biggest systems, the other is toward home applications in the case of small units.

The study also foresees solid-state devices replacing conventional electronics in the controls and instrumentation associated with engine operations, generator regulation, and electrical transfer.

The auxiliary electric power industry is comprised of two organization types, as revealed in a 55-page vendor directory. One type produces the engine or generator, the other vendor class markets complete systems, purchasing both engine and generator, but fabricating the mounting frame and incorporating controls and cooling systems. Allis-Chalmers, Cummins, and other engine builders also build complete systems.

Auxiliary power applications are so vast, the study says, that it is "difficult to single out a main market." The greatest unit volume, however, is accounted for by small generating sets, rated under 5KW, used in homes, farms, construction utility trucks, campers, refrigerator trucks, and so on. "Auxiliary power units are found in a growing number of affluent homes where power reliability is uncertain," the study says.

On the other hand, as much as 80 percent of auxiliary power shipments by dollar value are accounted for by telephone communications, water and sewage services, and hospital and health care establishments. But their needs for auxiliary power are changing, the study warns.

For companies serving this market, however, prime power generation offers an emerging opportunity. Electric utilities consider that this area is their province, of course, but interest is growing in combined cycle or cogeneration applications where engine heat is recovered to do process work or environmental heating and air conditioning, according to the study.

Units rated as little as 100 KW have already begun to appear in such commercial and institutional applications, the study says. And the trend will accelerate as energy costs rise and heat recovery methods are enhanced.

Diesel engines, too, are "beginning to compete strongly in the range between 35KW to 75KW." Diesels are more durable than gasoline types, require less maintenance, and consume 50 percent less fuel. "As more and more automotive diesels appear, the study says, "the economics of large-scale production will make diesels used in auxiliary power units even more competitive with gasoline models."

## ODOE & AIA co-sponsor energy code seminar

The Oregon Department of Energy in conjunction with the Portland Chapter AIA will co-sponsor the seminar, USING THE NEW ENERGY CODE FOR BUILDING & LIGHTING. The two-part program will focus on Chapter 53 of the Oregon Building Code and on lighting.

Carl Fullman, mechanical engineer and a member of both ASRAE and the Oregon Energy Conservation Board, will discuss the history of code development, the new commercial code, plan check and certification, alternate methods, and how to use the code.

Gerald Delaney, project engineer with Skidmore, Owings & Merrill and a member of the Illuminating Engineering Society, will present Oregon lighting standards, lighting sources, daylighting, lighting controls, and the outlook for lighting.

The all-day seminar will be held on Saturday, January 12, 1980, from 9:00 a.m. until 4:00 p.m. The cost of the program is \$20.00 and includes the seminar, materials, lunch, and coffee.

The registration flyer will be mailed by the ODOE early in December and will provide pre-registration details. For additional information, call the Portland Chapter AIA, 223-8757.



## painting & decorating contractors hold state convention

The Oregon Council Painting and Decorating Contractors of America will hold its 45th annual state convention on January 25, 1980, at the Valley River Inn in Eugene.

Program speaker Carl Bradley, CSI, National PDCA President, will discuss the national efforts to update specifications.

Portland Chapter CSI members are invited to attend the luncheon beginning at 12:30 p.m. on January 25. For additional information contact Gordon Van Antwerp, 775-1538.

## bidding and award of construction contracts

(A CSI LEGAL ISSUES SEMINAR) (.6 CEU CREDIT) Hosted by the Portland Chapter, February 22, 1980

## project close-out

(A CSI LEGAL ISSUES SEMINAR) (.6 CEU CREDIT) Hosted by the Portland Chapter, February 23, 1980

### SEMINAR LEADERS:

Mark E. Brown, CSI, is staff attorney with Black & Veatch Consulting Engineers, Kansas City, Missouri. Mr. Brown, At Black & Veatch, is responsible for matters involving contracts for construction and professional services, professional liability, contractor claims, environmental law, federal contracts, insurance and bonds and other legal matters. Mr. Brown is admitted to practice before the Kansas and Federal Courts. He has served as a guest lecturer at the University of Kansas, Kansas State University, and for CSI on matters relating to law and the practice of architecture and engineering.

### LOCATION:

Nendel's Inn, 9900 SW Canyon Road, Portland, Oregon. Overnight lodging available. Airport and City Center transportation available.

The registration fee for each of these seminars is \$150.00 for CSI members and \$175.00 for non-members. Checks payable to The Construction Specifications Institute should be sent to Dr. Garland D. Wiggs, Registrar, CSI Education Programs, P.O. Box 3178, Falls Church, Virginia 22043. Reservations will be confirmed by letter.

For additional information, call the CSI office, 223-8231.



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## CSI board meeting

November 6 1979

PRESENT Moorman Klas Sampier Nelson Ashton Koepke Seeley McCormick Largent Kilbourn Walter Hutchins Arnold Hill

The meeting was called to order at 12:05 p.m.

1 The motion was made and seconded that Don Eggleston be listed as Professional Vice President. Discussion followed concerning the Bylaws and eligibility for officers. Motion passed.

2 Rod Moorman Margie Largent Mary Alice Hutchins and Larry Arnold reported that the meeting of the Northwest Region CSI, Coordinating Council was worthwhile. The functions of the regional council were discussed.

3 Dexter Waller reported that The Portland and Willamette Valley Chapter will co-endorse a regional and national award to be presented to the Painting & Decorating Council (OPCDA).

4 The 1980 NW Regional Conference will be held April 17 - 20 at Embarcadero. The Products Fair conflicts with the first day of the conference. Mary Alice Hutchins will poll the membership to see how many expect to attend. Janet Hill will research details for chartering a bus from the fair to the conference.

5 The membership voted at the October business meeting on the following Bylaw revision:

Article VI Section III

"The Board shall elect by majority vote from the membership of the Board or past Boards, a President, Vice President, Secretary, and Treasurer. The President must have served at least one year on the Board.

The vote is void because the membership was not notified two weeks in advance of the vote.

Ivan McCormick moved Warren Koepke seconded that a letter be sent to the membership notifying them that a vote on the Bylaw revision will take place at the January meeting. Passed.

6 Don Ashton passed out the Treasurer's report for the Board's review. Ashton stated that he is still investigating the non-profit status for the chapter.

Current Monthly Treasurer's Report for Period Ending October 31 1979

Cash .....	0.00
Checking Account .....	125.00
Savings Account .....	6,377.24
Accounts Receivable .....	2,061.10
Postal Permit #1737 .....	20.85

Accounts Payable .....	234.50
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New Assets .....	8,349.83
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The meeting was adjourned at 1:15 p.m.

Respectfully submitted,

Mary Alice Hutchins, Secretary  
Janet Hill, Recording Secretary

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volume 19, number 5 construction specifications institute, portland chapter

january, 1980



## moorman's meanderings

by rod moorman

"Happy New Year," and "Thank You." to each and every one of you I extend the New Year's greeting because of tradition and because I do hope everyone has a truly good year I extend the expression of gratitude because of the support you have given me in my position as an officer of the Chapter the work you have contributed in providing me with learning opportunities, and the friendship you have shared.

Those of you who have contributed your time and efforts in the administrative functions of the Chapter also deserve a large "Thank You." Without you, there would not be a Chapter nor Chapter program.

While those who attend the Chapter events gain from their attendance, they contribute to the Chapter with their support. The whole Chapter gains from your support. Without you, there would be no Chapter meetings, no seminars and programs, nor other Chapter activities. So all of us owe our thanks to those who support the Chapter activities.

Would you take a moment to inventory what CSI has meant to you during the last six months? I hope all specifiers are able to tally instances where their specifications have improved. All manufacturers' representatives can recall instances where they were able to gain acceptance of a product which would result in a better completed project. Think of the times when your participation in CSI has improved the channels within which you communicate.

I am looking forward to a great CSI year and hope you are doing the same. Also, I am anticipating a year of more learning, improved specifications, better communications, and growing friendships. Please join me in these expectations. Together we can make them happen.

Let's start the New Year by attending the January meeting and the others that follow. We can make things happen with very little effort if we all contribute.

Even though I will not be able to exchange ideas and chat with each of you who attend the meetings, I enjoy seeing you there supporting our Chapter. Please come — I am looking forward to your being there.

## january chapter meeting

The Portland Chapter CSI will hold its January Chapter Meeting at the Mallory Hotel on Tuesday, January 8, 1980.

The program for the evening is THE ECONOMIC OUTLOOK FOR 1980 presented by Dr. Dennis Goodman, Economist with the U.S. National Bank.

The social hour will begin at 5:30 p.m. followed by dinner at 6:30 and the program at 7:30. The cost of the dinner and program is \$7.75 per person. Guests are invited.

For reservations, please call the CSI Office, 223-8231, by noon on Monday, January 7.

## 1980 regional conference

As we stated in the first bulletin the Conference Theme is "How to Cope with Tomorrow Now that it is Here". It is our pleasure to announce that one of the featured speakers at the conference will be Glen H. Abplanalp.

Mr. Abplanalp is a graduate of Rensselaer Polytechnic Institute in Civil Engineering and Fordham Law School. In addition to his duties as Vice President of Havens and Emerson, Inc., Consulting Engineers, he has been extremely involved in technical and professional societies.

His professional affiliations include being a Fellow and Past-President of the Construction Specification Institute, a Fellow of the American Society of Civil Engineers, a Fellow of the American Consulting Engineers Council, a member of the National Panel of Arbitrators and past Chairman of the National Construction Industry Arbitration Committee. However, he is probably best known by members of this region for his continuing column in The Construction Specifier entitled "Legal Points."

Mr. Abplanalp has made over sixty presentations to professional societies and universities throughout the country. Because of his knowledge, experience, and presentation capability, it promises to be an outstanding program and conference.

## CSI "energy" seminar highly successful

On October 23, 1979, 56 people attended an informative educational seminar at the Airport Holiday Inn. Three noted speakers in the energy field spoke individually and then all participated in a panel discussion answering many questions from the audience. The panel included: Dr. George Tsongas of Portland State University, Omar Mithun of the University of Washington and Dr. Jay McGrew of Denver, Colorado.

Any desiring printed information regarding the topics covered at the seminar or other information pertaining to energy can do so by contacting Tom Young at 224-1940. Those CSI members helping with and participating in the seminar included: J. Min Luey, B. Inouye, J. Madrosen and D. Gira. Special thanks to Tom Young for serving as coordinator for this first class educational effort.

This is one of several seminars which will be conducted for the Chapter this year. Watch your mail and **The PREDICATOR** for future announcements.

Products Fair Committee Meeting  
Tuesday, January 8, 1980  
4:30 PM, Mallory Hotel



## legal issues seminars

by bob klas

By this time, most of you have received one or more notifications concerning the Institute's legal issues seminars — Bidding and Award of Construction Contracts on February 22, and Project Close Out on February 23 — both hosted by the Portland Chapter CSI.

Robert Vansant, FCSI, a lawyer and a past president of CSI, is well qualified to present the material. Based on our experience with last year's Division 1 Seminar, we can be certain that the experience will present a concentration of valuable information. As the title suggests, the seminar will be practical rather than theoretical — "How to get a job built as intended, and keep it financially successful (fair) for both owners and contractors." Bill Merritt and Albert Bannon will work with Vansant to address local conditions. Frankly, I think every contractor in town should insist that the firm's key people attend these seminars.

At \$175 per person, registration is no small commitment. I believe that you can expect to get what you pay for. Reservations are coming in and the numbers suggest that we will certainly offer the seminar. However, to break even, we need at least 30 people attending each seminar.

I am making a plea for Chapter members to get behind these programs and maintain our reputation for supporting educational programs of this caliber. Our support for such programs, or lack of support, will affect the Institute's plans for continuing education. Please take advantage of this opportunity. The registration cost will be returned many times over. If you need a registration form, call me at 222-4221.

## committee to revise manual document

In line with the Institute Technical Documents Committee policy, the Manual of Practice Document MP-7, "Sources of Construction Information" is being updated and expanded. MP-7 lists trade, professional and other organizations that offer information about any aspect of construction and contains the name, address and acronym of the organization. It also includes a list of available guide specifications from organizations other than CSI. Additions and corrections to the document should be submitted to:

Mr. Timothy F. Kirby, CSI  
Chairman, TDC MP-7 Subcommittee  
c/o TVS & Associates, Inc. Architects  
1200 North Omni International  
Atlanta, Georgia 30303



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## BS by KS

basic specs by ken searl

Last week I was in the office of one of our larger general contractors in this area, and I noticed a report from the company's insurance carrier regarding the types and percentages of injuries that have occurred over the years for that particular company. With their permission, I quote this report as follows:

Types	Percentages
Back Injuries .....	23.5
Bruises and Abrasions .....	19.1
Foreign Matter in Eyes .....	13.2
Cuts .....	11.8
Puncture Wounds .....	7.4
Falls and Fractures .....	6.0
Miscellaneous .....	19.0

By now you may be asking what does all this have to do with specifications? It does have a direct relation because safety is everybody's business even if sometimes being safety-minded can get you into trouble. AIA General Conditions under article 10 "Protection of Persons and Property" definitely places job safety responsibility on the general contractor. Under article 2.2.4, these same general conditions places the architect's role as one with no responsibility for job safety. This all sounds plausible, but the fact remains the architect and his representatives must visit job sites from time to time and under certain circumstances can become involved and held responsible. I'll give an example of how this can happen.

One case involved an engineer's representative who upon visiting job site for a periodic site construction review, or as we used to say, an inspection, discovered a deep trench with improper shoring and excavated material stored too close to trench. He contacted the contractor's superintendent and voiced his concerns. Superintendent stated it was nearly quitting time and he would check it out first thing in the morning. Well, a couple of days later a section of the trench caved in, killing two workmen. Later the widows of the two deceased workmen sued a number of parties including the engineer, alleging negligent "supervision." The engineer was held liable along with the general contractor for negligently failing to correct a hazardous condition. The apparent 64-dollar question is just what does an architect or engineer do to keep from getting into a condition of this sort? In my opinion, there are only two alternatives. One can totally ignore any improper safety hazards while visiting job site (but don't stand by a safety hazard too long or OSHA will write you up), or if there is a very noticeable safety hazard, point it out to the contractor's superintendent and do not leave job site until the safety hazard has

been corrected or removed. Now isn't this terrible, that in today's world that these are the only two ways one can afford to become a party to otherwise big, big trouble. This seems to me a direct condemnation of just how bad things have progressed in this country.

One more tidbit of information not directly related to any of the above, just throwing it in to keep you on your toes. I quote from an anonymous source as follows: "An ideal architect or specifier is one who can learn to live in a temporary system which is continually changing and one who is achievement or goal-oriented and is an agent of change rather than the recipient of change."

## new members

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Portland State University  
P.O. Box 751  
Portland, Oregon 97207

Howard Grimms  
471 High Street, S.E.  
Salem, Oregon 97301

Robert Leipper  
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Alan Lofftesness  
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Beaverton, Oregon 97005

Thomas McNab  
Waldron-Huston-Barber  
974 N.W. Riverside  
Bend, Oregon 97701 •

Tom Roche  
Zonolite Division-W.R. Grace Co.  
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Portland, Oregon 97227

Joseph Rudd  
Rudd Associates  
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Vancouver, Washington 98664

F. Arlen Stanek  
3606 Main Street  
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7 S.E. 97th  
Portland, Oregon 97216

J. A. Talbot, P.E.  
Talbot, Wong & Associates, Inc.  
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Portland, Oregon 97216

Bruce Townsend  
Miller, Cook, Tollen Architects  
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Portland, Oregon 97209

Charles White  
1845 N.E. Couch Street  
Portland, Oregon 97232

Perry Zeida  
P.O. Box 13233  
Portland, Oregon 97213

## CSI chapter technical committee meeting

November 27, 1979

PRESENT: Rod Moorman, Bob Leipper, Bruce Bader, Candace Robertson, Dave Fisher, Vic Mastandrea, Larry Arnold, Lee Kilbourn

1. Reviewed technical aid series document on wood decking prepared by Don Wallace. Recommended it be forwarded to the Institute.

2. Because of the response from the November Chapter Meeting, CTC and PHCC will attempt to compile a list of utility connection fees for publication in The PREDICATOR.

3. Copies of the pre-publication drafts of the Manual of Practice, Volume 1, Chapters 6 & 7 will be available in the CSI Office. They will be mailed upon request.

The next meeting will be held, January 10, 1980, in the CSI Office, 12:00 Noon.

Everybody is welcome!

## cement and concrete reference guide now available

The refinement of more than 150 years of cement and concrete technology is presented in the 12th edition of the Portland Cement Association's **Design and Control of Concrete Mixtures**.

The new edition emphasizes the fundamentals of concrete design for specific use and exposure conditions and the importance of proper workmanship. It covers such topics as proportioning normal concrete mixtures, characteristics of aggregates, batching, mixing, and conveying concrete, concrete placing and finishing; types of portland cement; special types of concrete, hot-and cold-weather concreting; and volume changes. Also included is information on converting to metric units and numerical values.

This 140-page manual is available until December 30, 1979 for an introductory price of \$4.25.

To order **Design and Control of Concrete Mixtures**, contact:

The Order Processing Department  
Portland Cement Association  
5420 Old Orchard Road  
Skokie, IL 60077



## CSI board meeting

December 4, 1979

PRESENT Moorman, Obert, Nelson, Eggleston, Seeley, McCormick, Murphy, Ashton, Kilbourn, Largent, Hill.

1 The minutes of the November 6 meeting were reviewed and approved as circulated.

2 Don Ashton presented the Treasurer's report dated November 30, 1979. It will be printed in **The PREDICATOR**. The motion to accept the Treasurer's report was made and seconded. Passed unanimously.

Current Monthly Treasurer's Report for Period Ending 30 November 1979 (7th month of Fiscal Year)

Cash	0.00
Checking Account	493.09
Savings Account	4,897.24
Accounts Receivable	2,049.60
Postal Permit #1737	199.61

Accounts Payable	0.00
NET ASSETS	7,639.54

A. Actual Income 1979/1980 for 7 months ..... 10,563.02  
 Actual Expenses 1979/1980 for 7 months ..... 12,794.22  
 NET (after 7 months of F.Y.) ..... (\$2,231.20)

B. Accounts Receivable  
 Past due Predicator

Advertising 78/79	290.00
CSI Dinner NO Shows	80.00
Products Fair 78/79	150.00
Master Format Tec. Doc.	9.60
Seminar	20.00
Predicator Advertising 79/80	1,500.00

C. Accounts Payable ..... 0.00

D. Inventory ..... No Change

3 The deadline for **The PREDICATOR** information is the 15th of the month. Anything not submitted by that date will have to wait until the next issue.

4 Announcements: The Technical Committee will meet Thursday January 10, 1980, at 12:00 Noon in the CSI Office.

5 A hearing on the licensing of engineers will be held in January. The state requested a representative from CSI to testify at the hearings. Discussion followed.

Don Ashton moved, Stan Nelson seconded that the CSI Board not be involved in political policy making. Passed unanimously.

6 Products Fair: The Board discussed the large vs small aspects of Portland's Products Fair. Rod Moorman suggested that the Products Fair Committee meet in January and discuss policies for future Products Fairs. The meeting will be held Tuesday January 8, 4-30 p.m. at the Mallory Hotel.

The next Board meeting will be Thursday January 3, 1980, at noon.



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## earthquake-resistant building design provisions analyzed in NBS report

To assist standards writers, code officials, and other specialists concerned with efforts to strengthen the earthquake resistance of buildings, the National Bureau of Standards (NBS) has published a report that presents a detailed analysis of tentative seismic design provisions developed by the Applied Technology Council (ATC). The ATC is a private group associated with the Structural Engineers Association of California

In order to facilitate effective use of the seismic design and construction concepts of the ATC-developed provisions, the publication, **Analysis of Tentative Seismic Design Provisions for Buildings**, provides:

- A listing of each of the more than 1200 discrete items of data or individual provisions developed by ATC, with a cross reference to the other data required for its evaluation and to the other provisions that use its value.
- A decision table for each of 340 provisions that displays the logic of the provisions without ambiguity and that has been tested to identify any gaps, redundancies, or contradictions in the logic.
- Information networks for each chapter and the document in its entirety, highlighting the flow of logic and assessing interdependency of provisions in a document that will be new to most users. The networks show that design paths exist with as many as 51 provisions in series sequence between input data and the final evaluation of compliance
- A classification of the provisions according to the pertinent physical elements of the building and building processes. The classification is used to generate an index for locating provisions and alternative arrangements of the provisions to make them more accessible to various classes of users

The 599-page analysis of the ATC provisions was written by James R. Harris and Richard N. Wright of the NBS Center for Building Technology and Professor Steven J. Fenves of the Carnegie-Mellon University's civil engineering department. The authors cooperated with the ATC team during the original development of the

tentative provisions, prepared under NBS contract by ATC. NBS and the National Science Foundation sponsored the project as part of the Cooperative Federal Program in Building Practices for Disaster Mitigation. The work by Harris, Fenves, and Wright is targeted for groups involved in further development and use of the provisions.

**Analysis of Tentative Seismic Design Provisions for Buildings** (T.N. 1100) may be ordered at \$10.50 a copy by Stock No. 003-003-02084-2 from the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402.

## LOF executive challenges architects, builders, manufacturers

Architects, builders and building product manufacturers should set criteria for design, construction and product performance to reduce some of the problems with product application and building performance burdening the industry, according to a leading industry executive.

James W. Blumer, executive vice president of Libbey-Owens-Ford Company's Glass Division, told a major industry group here today, "Owners are seeking mutually exclusive goals in wanting bold new 'landmark' buildings which at the same time have zero risk."

Blumer said that manufacturers must supply quality products, but he cited the fragmentation of the industry and the quest to "blaze new design trails" with problems in buildings today. He said, "Major construction projects are anything but standardized. A product that performed well on one building may fail on another because of different environmental conditions. Or, a given product may be unsuitable for use with other materials and products which individually are reliable and acceptable."

The LOF executive warned that building product manufacturers "also have little control over the construction operations. Our products are used by numerous contractors of varying capabilities, and sometimes neither the manufacturer nor the architect can prevent sloppy installations or bad workmanship that will undermine good product performance

"No procedures exist for testing all possible combinations of building products for various environmental conditions" which he emphasized increases the need for setting up voluntary criteria for design,

construction and product performance

Blumer was a principal speaker at the one-day 1979 Building Products Executive Conference attended by 600. He also projected a strong market outlook for the next decade. Construction will pull out of the recession which will usher in the decade of the 80's and will average a 5 percent yearly growth in commercial building and remodeling, according to Blumer. He also cited a surge in the population's 25-to-44 age group with strengthening the long-term need for residential housing which he expects to be strong.

Blumer pointed to three major challenges facing the building industry, those of political and public issues, conservation of energy and the need for more productivity and innovation.

Building product manufacturers will have to prepare for the increased market needs while facing the challenges. He said Libbey-Owens-Ford's glass operations are preparing for the increased market by adding a new \$60-million-plus expansion of a glass manufacturing plant and a \$10-million-plus glass tempering and filming plant primarily to serve the building products market.

He also pointed to Libbey-Owens-Ford's self-help energy program in which the company has drilled 100 wells in Ohio to help provide the "critical load" factor of 16 percent of the natural gas it needs for its glass making plants in Toledo. The company also purchased a gas field in Oklahoma to help provide energy for some of its other plants.

Lifetime energy pricing was another area in which he looked for change. He pointed out that the high cost and spot shortages of energy now makes it possible to sell lifetime energy pricing, which the public wouldn't accept in the days of abundant, cheap energy.

"Today, the market has changed dramatically. You can sell lifetime energy pricing by showing that the premium product may be much cheaper over a period of 10 to 15 years. With some products, the pay-back span is much shorter. We have high performance glass which may pay back the extra cost in two or three years," Blumer stated.

Other speakers at the conference held at the Capital Hilton Hotel were Nancy H. Teeters, a governor of the Federal Reserve System Board; Senate majority leader Robert C. Byrd; R. Robert Russell, director of the Council on Wage and Price Stability; and Maxine L. Savitz, deputy assistant secretary of the Department of Energy



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volume 19, number 6 construction specifications institute, portland chapter

february, 1980

## moorman's meanderings

by rod moorman

What do you have in common with other members of the Chapter? The Board of Directors is interested in this from the standpoint of how we can best serve you. The activities chairmen are interested in your areas of concern. The other members of the chapter joined because they were interested in what you had to say or hoped you would be interested in what they had to say.

One way to communicate with the other members would be to write to the editor of this newsletter. Letters of interest to the general membership will be published. Your letters will strengthen the communication link in the Chapter. The better we communicate, the better the Chapter serves its purpose.

The most valuable purpose of the Chapter membership is inter-membership communication. The ability to communicate complex ideas and concepts makes the human being unique. The highly efficient communication system of this nation is a primary reason for our technical leadership. Society membership is part of this system. Our Chapter is part of this, and your membership and participation is necessary. Without you, there can be no inter-membership communications.

With what facet of our industry do you wish mostly to communicate? Is it energy conservation? Is it product or professional liability? Or is it some other subject of interest to some other member of the Chapter? Whatever it may be, the decision is yours to air and to exercise. You can do this by letters or articles for **The PREDICATOR**.

Janet Hill and Joan Swinney are doing a fine job in helping the membership to share ideas. Not only in their participation of publishing **The PREDICATOR**, but also in other ways. Joan has served us well in her capacity of running the office and in editing **The PREDICATOR**. Janet has helped us with her efficient handling of the communications flowing through the office and also in assembling **The PREDICATOR**.

Communication is a two-direction flow of information. Let's hear from you. If we don't communicate, both of us are losing a valuable opportunity.

## february chapter meeting: the dilemma of fire safety design program

- Put the loss of life and property, due to fire, in a proper perspective
- Give a brief history of sprinklers and the trade-offs allowed in codes when sprinklers are specified.
- Present some of the statistical rationale used to justify trade-offs.
- Illustrate the true statistics regarding sprinkler performance and the illogical methods previously used to arrive at unreasonable conclusions.

Summarized by promoting good overall fire safe design through use of all available tools.

### speaker: Walter J. Prebis, P.E.

Executive Director, Colorado Prestressers Association, Degree in Civil Engineering, Colorado College; Registered Professional Engineer, Formerly Regional Structural Engineer for Portland Cement Association.

Chairman of PCI Committee on Fire; Member of NFPA, Fire Science and Technology Educators Section; Member of Fire Marshals of North America; Member of ICBO; Denver Building Code Committee.

### reservations

The Portland Chapter CSI will hold its February Chapter Meeting at the Mallory Hotel on Tuesday, February 12, 1980.

The social hour will begin at 5:30 p.m. followed by dinner at 6:30 and the program at 7:30. The cost of the dinner and program is \$7.75 per person. Guests are invited.

For reservations, please call the CSI Office, 223-8231, by noon on Monday, February 11.

Automatic sprinkler systems are becoming increasingly common as a component of life safety systems in buildings. Building codes across the country routinely require their installation. It is also common practice to offset some of the cost of sprinkler systems by permitting trade-offs. Trade-offs permit changes in certain life safety features in buildings, such as increasing the distance to exits, reducing the number of

exits and reducing the fire rating requirements of materials when sprinklers are used.

The rationale for allowing the above trade-offs has been the belief that sprinklers are 100% effective, that a sprinklered building could not burn and that all lives in a sprinklered building would be saved.

Unfortunately, it hasn't turned out that way: countless people have died in fires of sprinklered buildings and recently the largest dollar loss in history has occurred in a sprinklered building.

It is not the intent of the prestress concrete industry, or any other industry for that matter, to be simply critical of sprinkler protection. However, it is imperative to make the design professional aware that sprinkler performance is not totally reliable and, therefore, does not justify tampering with the safety of building design. By doing so, we hope to achieve fire-safe design based on logic, common sense and unquestionable statistical data. Then, when an emergency does occur, all of us have a chance to survive.

## CSI manual of practice revisions

The CSI Manual of Practice is scheduled for reprinting in December 1980. The major revisions will be as follows:

In Volume I —

A new Chapter 6, "Conditions of the Contract" (to be designated MP-1-6). A new Chapter 7, "Division 1 — General Requirements" (to be designated MP-1-7).

In Volume II —

A new Chapter 2, "CSI Format — Masterlist of Specification Section Titles" (to be designated MP-2-1, "Masterformat").

In addition to the above major revisions, Volume II, Chapter 7, "The Page Format", will be revised to place less emphasis on physical page arrangement for specification sections (indentation, margins, alpha-numerical numbering of Articles and sublevel designations). Various page arrangements which have been found to be successful in actual practice will be shown as suggested examples.



## BS by KS

BY DONALD J. ASPTON

In the December 1979 issue of *Building Design and Construction* magazine there is an article on page one entitled "OSHA Penalties, Rosemont Building, Team \$64,700." As you may recall, this involves the collapse of a wood grill and under construction last August at Rosemont, Illinois, in which five persons died. At the time of the collapse, as I recall, a low flying jet airplane had just passed over. Whether or not this had anything to do with the collapse is still a matter of conjecture.

The general contractor was penalized the heaviest with a fine of \$24,800 for failing to provide adequate temporary bracing, making physical design modifications without written approval of the architect, and continuing to build without a written erection procedure. OSHA was also quoted as stating that the contractor failed to use guard rails or scaffolding, did not protect workers adequately from falls of more than 10 feet, and did not sufficiently train employees. Another \$2,000 fine, not for a willful violation, is for the contractor's failure to conduct competent, regular inspections.

The architects for this project were also fined a total of \$3,280 as a willful violation penalty for permitting erection of the roof structure without a written erection procedure by a qualified person. OSHA notes the procedure should have specified placement sequence of arches, connecting joists and temporary bracing.

Now the item that bothers me is this written erection procedure that caused penalties to both the architect and contractor. A figure talked to contractors and architects in this area, and to me several times over, heard of such a thing. He stated, however, in research our state and OSHA requirements in the near future from what I can determine, the architects were not involved in a faulty design and please note the contractor was cited for making physical design modifications without written approval of the architect. My 44 dollar question is why were the architects penalized for something beyond their control? Was contracts not clearly written and/or will not be responsible for and will not have control or charge of construction means, methods, techniques, sequences or procedures, or to carry out operations and programs in connection with the work, and will not be responsible to carry out the work if subcontractors will. The contract documents asked the architect will not be responsible for or have control or charge over the acts or omissions of the contractor, subcontractors, or any of their agents or employees, or other persons performing any of the work.

Now, if the above applied in this case, why did OSHA levy a fine on the architects? It seems to me that if the architects had become involved in the sanction or approval of a written erection procedure, they would be in deeper trouble and would be liable for many suits by the deceased workers' families.

I have heard many hair-raising horror tales involving OSHA since its inception, but this case takes the proverbial cake. It appears to me that OSHA has evolved into a many-headed monster, and if we don't stay focused, I will join us all. Think it's high time for all of us to do what we can to assure that this kind of action does not happen in our area.

## treasurer's report

Current Monthly Treasurer's Report for period ending December 31, 1979 (8th month of fiscal year)

Cash	\$	0.00
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Accounts Payable	\$	0.00
NET ASSETS		7,041.89

Actual Income 11/79, 1980		
for 8 months	\$	42,207.56
Actual Expenses 11/79, 1980		
for 8 months	\$	42,212.73
NET after 8 months of 1979		5.83

Accounts Receivable		
Past Due Predicator		
Advertising 7/8, 79		298.00
CSI Dinner Nov. 29/79		108.00
Products Fair 7/8, 79		150.00
Waste Removal 7/8, 79		1.00
Seminar		20.00
Predicator Advertising 7/8, 79		800.00
Accounts Payable	\$	0.00

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Donald J. Aspton, Treasurer

## how to cope with tomorrow now that it's here!

This year's CSI Regional Conference will look at how our industry continues to be plagued with a number of problems which reduce our efficiency and effectiveness and erode our credibility with the public at large. Many of these problems are self-imposed by regulation, some by our ignorance and resistance to change.

The range of these problems is large, dealing, on one hand, with how we manage the industry (our tactics) and, on the other, with the tools we use (our techniques).

It is the intention of this conference to explore these areas of concern, as well as others which may arise in a constructive and creative way. The sessions each day will focus on a series of related concerns and how these will be dealt with in the immediate future.

### DAY ONE, TECHNIQUES OF THE DELIVERY SYSTEM

This segment of the program will deal with the tools available to us to operate the construction industry. We will look at the problems of these tools and how we can better use them to the advantage of our clients. Some concerns expressed about the techniques of the industry include the following: inadequate construction input in design and deficient contract documents.

### DAY TWO, TACTICS OF THE DELIVERY SYSTEM

This segment will deal with the ways in which we plan, manage and control each part of the construction industry and how we can improve these methods. Some concerns expressed about the tactics of the industry include the following: variation in project management quality, lack of good management systems and ineffective corporate management.

### ORIENTATION DEMONSTRATIONS

To provide a better understanding of the information discussed in the technical sessions, hands-on demonstrations are being planned about equipment and systems which support the techniques and tactics of the industry. These will include the following types of demonstrations: orientation to work processing (seminar presentations and individual equipment demonstrations), orientation to photo and overlay drafting, and orientation to mini-computers (scheduling, life cycle costing and management systems).



## legal issues seminars

by bob klas

By this time, most of you have received one or more notifications concerning the Institute's legal issues seminars — Bidding and Award of Construction Contracts on February 22, and Project Close Out on February 23 — both hosted by the Portland Chapter CSI.

Robert Vansant, FCSI, a lawyer and a past president of CSI, is well qualified to present the material. Based on our experience with last year's Division 1 Seminar, we can be certain that the experience will present a concentration of valuable information. As the title suggests, the seminar will be practical rather than theoretical — How to get a job built as intended and keep it financially successful (fair) for both owners and contractors. Bill Merritt and Albert Bannon will work with Vansant to address local conditions. Frankly, I think every contractor in town should insist that the firm's key people attend these seminars.


At \$175 per person, registration is no small commitment. I believe that you can expect to get what you pay for. Reservations are coming in and the numbers suggest that we will certainly offer the seminar. However, to break even, we need at least 30 people attending each seminar.

I am making a plea for Chapter members to get behind these programs and maintain our reputation for supporting educational programs of this caliber. Our support for such programs or lack of support, will affect the Institute's plans for continuing education. Please take advantage of this opportunity. The registration cost will be returned many times over. If you need a registration form, call me at 222-4221.

## mark your calendar: April 17, 1980

CSI PRODUCTS FAIR, Memorial Coliseum, 3 to 9 P.M., sandwiches for all attending, NO HOST BARS.


For more information, contact Stan Nelson, Chairman, 206/696-1651.



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### california products fair

**Orange County Chapter:** Wednesday, March 5, 1980. Buena Park Hotel, Anaheim. Contact: Mike Geraghty, C.K. Varner Co. 3026 Holiday, Santa Ana, California 92705. Telephone: 714/540-1494.

**San Francisco Chapter/East Bay-Oakland Chapter:** Wednesday, March 26, 1980. Civic Auditorium, San Francisco, California. Contact: Mel Dressel, Harold Price & Co., P.O. Box 1389, Richmond, California 94802. Telephone: 415/235-5343.

**Fresno Chapter:** Tuesday, April 15, 1980. Contact: Ron Sidoli or Mickey Cochran, Western Building Materials, 801 "R" Street, Fresno, California 93777. Telephone: 209/266-9675.

**Los Angeles Chapter:** Wednesday, April 23, 1980. Chalon Mart, Los Angeles. Contact: Chris Johnson, Sherman A. Johnson & Sons, P.O. Box 3127, So. El Monte, California 91733. Telephone: 213/443-0156.

**Sacramento Chapter:** Thursday, May 1, 1980. Cal Expo State Fairgrounds, Sacramento, California. Contact: Terry Broussard, Schroeder Associates, 555 Capitol Mall, Suite 777, Sacramento, California 95814. Telephone: 916/441-1060.

**San Diego Chapter:** Thursday, May 22, 1980. Holiday Inn, San Diego. Contact: Dale Paterson or Sue Russell, Pella Sales, 1187 Morena Boulevard, San Diego, California 92110. Telephone: 714/275-0200.


**The Construction Specifications Institute:** June 16, 17, 18, 1980. National Convention — Convention Center, Anaheim, California. Contact: Jack Alherton, The Construction Specifications Institute, 1150 Seventeenth Street, N.W., Suite 300, Washington, D.C. 20036. Telephone: 202/833-2160.

**Santa Clara Valley Chapter:** Tuesday, July 15, 1980. Central Park/Pavilion, Santa Clara, California. Contact: Ken Brayton, Testing & Controls, 415 Fairchild Drive, Mountain View, California 94043. Telephone: 408/967-6082.


**Chico Chapter NAWIC/West Region CSI:** Thursday, September 18, 1980. Silver Dollar Fairgrounds, Chico, California. Contact: Wanda Roe, Valley Contractors Exchange, 1903 Park Avenue, Chico, California 95926. Telephone: 916/343-1981.

**Monterey Chapter:** Thursday, November 6, 1980. Conference Center, Monterey, California. Contact: Jeanne Nunez or Gwen Douglas, Monterey Builders Exchange, 343 Ocean Avenue, Monterey, California 93940. Telephone: 408/394-6661 or 408/373-3033.

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


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## recommended refresher study for applicants taking certified construction specifier written examination

Having shown the necessary experience on your application, you should have no difficulty in successfully passing the written examination. However, the Examiners strongly recommend that you spend a little time in reviewing certain data prior to the examination date. It will make the written examination easier to pass and will help you feel more confident of your ability to pass it.

The written examination will be "closed book", no reference material may be taken into the examination room. While the time period for the exam will begin at 9:00 a.m. and end at approximately 2:00 p.m., you may be able to finish sooner and leave earlier. If you arrive late, no extra time will be permitted. There will be no lunch break. All paper will be supplied, but you should bring several sharp pencils and erasers. Do not use a pen in filling out the answers.

Part One of the examination, PRINCIPLES OF PREPARING WRITTEN CONSTRUCTION DOCUMENTS, will be derived largely from the CSI Manual of Practice (MOP), current edition, though it does not include Chapter Six of Volume One which deals with Conditions of the Contract. It is essential that you have the current edition of the MOP.

Part Two, CONDITIONS OF THE CONTRACT, is derived from the chapter on this subject in Volume I of the MOP. You should also study AIA Document A201, thirteenth edition, "General Conditions of the Contract for Construction." Be sure you understand the roles and responsibilities of all parties and all other aspects of General Conditions documents in common use. In addition, review the recommended methods for (and title of) modifications to the General Conditions. Questions will be multiple choice and true/false.

Part Three, CONSTRUCTION TECHNOLOGY, will not be a test of whether you are a good architect or engineer; it is designed to show that you are sufficiently acquainted with fundamental construction matters to be able to coordinate a project manual. You will be asked questions from each of the sixteen Divisions in a specification, questions to which you no doubt know the answers if you have been

working perceptively for at least five years in one of the construction design disciplines. Excellent preparation for this portion will be careful review and study of CSI Monographs and a few recent specifications for major projects. As you study these, visualize the construction process. Be sure you understand each step. If you have questions in your own mind, seek the answers from experts in your locality. Examination questions will be multiple choice and true/false.

Part Four, PRACTICAL PREPARATION. It will be in two parts: (1) "Rewrite" will be required on some brief specification material which was prepared purposely out of format and with other than recommended language; (2) "Thesis" requires writing a thesis of 500 to 1000 words on the subject of "The Design Professional's Responsibility Regarding Shop Drawings." While the topic should be studied in advance, the thesis must be written in the examination room and notes will be not permitted.

The thesis must show an adequate understanding of the subject and will be graded on many points, including, but not limited to: whether shop drawings are part of the construction contract documents and the reasons therefore; who should furnish the shop drawings; how it is recommended they be routed — from point of origin, through reviews and final return; what elapsed time might be considered "reasonable" for the processing and review of shop drawings and other submittals; what effect "unreasonable" time might have on the other participants in the construction progress; how the procedures for submittal and review of shop drawings should be defined in the construction contract documents, and the extent of the design professional's responsibility for reviewing the shop drawings and the reasons therefore.

Writing must be legible, punctuation must be reasonably correct and the completed thesis must be in form suitable for handing to the typist for final word-processing.

Preparation for writing the thesis should include thorough study of General Conditions documents in common use, study of the CSI Manual of Practice, and review of the various CSI documents and published articles on shop drawings.

The very best advance preparation that you can get is to organize a study group among your colleagues who will be taking the written examination. Several CSI chapters are sponsoring special short courses for the purpose, limited to persons taking the examination. This quality of study, which is one of the great benefits of CSI membership, is strongly recommended.

## profits of building materials makers up 16% in third quarter, reports F.W. Dodge

Sales and profits of building products manufacturers in the third quarter were up solidly over the comparable 1978 period, with both posting a 16 percent gain, it was reported by the F.W. Dodge Division of McGraw-Hill Information Systems Company.

According to George A. Christie, vice-president and chief economist of F.W. Dodge, the latest survey of the manufacturing component of the construction industry showed third quarter earnings to be "remarkably buoyant for an industry whose backbone of housing starts has plunged more than 20 percent since last winter. There were also signs, however, of harder times ahead," he warned. "This quarter's results marked the third consecutive quarter in which gains in sales and profits have declined. With nonresidential building now following in the path of residential building, building materials producers will be hard pressed to match this year's earnings gains in the quarters ahead."

The largest after-tax profit gain, an increase of 45 percent, was posted by firms manufacturing plumbing fixtures. Because installation of plumbing fixture products occurs late in the construction process, much of this quarter's gain is the result of the extraordinary levels of contracts awarded earlier this year and late in 1978.

Third quarter profits of firms in the 14 product groups reviewed by Dodge were:

Plumbing (6 companies), up 45 percent;  
Coatings (8 companies), up 38 percent;  
Tools (6 companies), up 33 percent;  
Controls (4 companies), up 31 percent;  
Forest Products (12 companies), up 27 percent;  
Electrical Fixtures (4 companies), up 29 percent;  
Heavy Equipment (8 companies), up 21 percent;  
Aluminum (3 companies), up 19 percent;  
Cement (9 companies), up 17 percent;  
Gypsum (3 companies), up 15 percent;  
Multiproducts (10 companies), up 9 percent;  
Iron & Steel (10 companies), up 2 percent;  
Glass (4 companies), up 2 percent;  
HVAC (4 companies), percentage not meaningful, due to loss.



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# the predicator



volume 19, number 7 construction specifications institute, portland chapter

march, 1980

## BS by KS

basic specs by ken searl

During the past several years I have suggested that a new products column be incorporated into the format of the **Predicator**. So far it has been talked about with various members of our chapter, most of them agreeing it would be a good idea, but as yet no action has been taken to implement such a column and I hold the sneaky suspicion that everyone is waiting for someone else to write the column.

Just recently, I attended a demonstration of a new product which I feel is worthy of passing on to you so I will slide it into this issue of the old **BS by KS** with the hope that someone in our chapter will consider writing future articles concerning new products. Volunteers please step forward or all but one of you step back one pace.

The product I am referring to is called 3-6548 Silicone RTV Foam manufactured by Dow Corning. It seems to me they could have come up with a much shorter and simpler name but what the heck, a rose by any other name smells the same. It is described by the manufacturer as a medium density two-part silicone foam product with improved fire-resistant properties. Its cellular structure makes it excellent for foamed-in-place fire stops and penetration seals and is particularly useful where stability at extreme temperature is required. Areas of other suggested potential use include thermal insulation, cushioning, sealing, ablative protection and sound absorption. Specific uses include sealing gaps and holes in walls, ceilings and floors through which conduit, wire and cable, ductwork and piping must pass, confines such hazards as fire, smoke, gas and chemicals and also seals building against dirt, dust, water and other contaminants.

It appears to me that fire marshals should be most happy or even delighted to see a building where all the poke-through items are sealed with this product. In witnessing a demonstration of this product, it only takes 90 seconds (at room temperature) after the two parts are mixed and placed, to swell about three times larger, sealing entirely the gapped area. Over the years we have used many products to seal building walls and floors. Most of them didn't pack into spaces tight enough and those that did were not

**(please turn to page 2)**

## march chapter meeting

The Portland Chapter of the CSI will hold its next meeting at the Mallory Hotel on Tuesday 11 March.

The program for the evening will be devoted to A LOOK AT THE 1980 REVISION OF THE BUILDING CODE. Walter M. Friday, Assistant Administrator for the Building Code Division of the Department of Commerce, will discuss the code and changes that will be implemented in July, 1980.

Friday is a graduate of Oregon State University and is a Registered Civil Engineer. Prior to joining the state in 1973, he headed the City of Salem Inspections Division. He serves on the International Conference of Building Officials General Design Subcommittee.

The social hour will begin at 5:30 p.m. followed by dinner at 6:30 and the program at 7:30. Guests are welcome.

For reservations, call the CSI Office, 223-8231, by noon Monday, 7 March.

## seminar industry members

Have you ever wondered why architects seldom use details from your company's literature on their drawings?

Have you ever talked at length to someone in an architect's office only to find out later that the person had only limited influence if any at all?

Have you ever wondered why your competitor's product appears in architectural specifications and not yours?

Charles Chief Boyd, CSI, will address these questions and focus on how the specification process works to best meet the needs of the client.

A one-day industry marketing management seminar, "Effective Construction Product Representation," will be held Tuesday 22 April at Nendel's Inn, Portland. Mark your calendar now and watch for your registration form.

## moorman's meanderings

by rod moorman

The Construction Specifications Institute is an organization for all who are interested in construction specifications. As we maintain two categories of membership, Professional and Industry, sometimes there develops an "Us and Them" attitude. CSI has no place for this attitude. While classification is necessary, "Us and Them" is not.

I have heard the belief expressed, "Contractors are all crooks"; also the theory that owner-contractor relationship was "advisory". It is unfortunate that either of these attitudes exists. A strong CSI can do much to alleviate these prejudices. Whether we are Professional or Industry, we are all members of CSI working towards common goals.

One of the major causes for the "Us and Them" attitude is weak or erroneous specifications. When a specification is faulty, it is not the reader's fault for misinterpreting it, but the fault of the writer. At one time, contractors had few rights. Today, this is not so, and it is now debatable whether one party or the other has any advantage. But whoever feels he has the advantage, the responsibility for strong, clear specifications lies with the writer.

Active participation in CSI, attending meetings, working on committees, and participation in seminars will help both Industry and Professional members to eliminate misunderstandings and help break down "us and them" attitudes.

A construction contract should not be an adversary document. Write specifications so that they are clear and complete and no adversary situation should occur. Industry members must keep the specifier informed of problem areas, and specifiers must listen to what the industry members are saying. CSI programs and activities are a good means of accomplishing this.

## mark your calendar: April 17, 1980

CSI PRODUCTS FAIR, Memorial Coliseum, 3 to 9 P.M., sandwiches for all attending, NO HOST BARS



(continued from page 1)

nearly as fire-resistant. It is claimed this product has a fire point somewhere between 500 to 600 degrees F. and will stand temperatures up to 2000 degrees F. for a short time. If you are interested, the local representative is Rick Smith of the Houston company, telephone 297-5589. Oh, yes, there is a specdata sheet out on this product dated May, 1978.

I am also wondering if our chapter should not only have a new product column in our chapter publication, **The Predicator**, but should also have a committee to review and evaluate new products with their findings published.

## announcements

Northwest Lath and Plaster Bureau announces that by the end of 1980 metal stud manufacturers and wall ceiling contractors in the Northwest are planning to eliminate the 3/8" metal stud, including interior studs used for drywall and veneer plaster application and exterior metal studs. This also means the elimination of the 3/8" metal track.

Confusion on job, inventory and drawing are seen unless this change is made, as most construction today uses the 3/8" metal stud.

A new Technical Aid Series Document has been completed by Rodney V Moorman. The subject of the document is Tower Steel — in Division 2

The Technical Committee will meet on the last Tuesday of each month either at 12:00 noon in the CSI Office or at 5:30 p.m. at Zimmer, Gunsul, Frasca. Please call the CSI Office for the correct time and place.

Margie Largent, Lake Oswego architect, has been appointed to the Screening Committee for the Lake Oswego Downtown Redevelopment Plan and Municipal Center.

The Screening Committee recommends to the city council those proposals that merit final consideration.

Please note this change of address in your directories:

William N. Keefer, Architect  
 First Federal Plaza Building  
 1220 Main Street, Suite 560  
 P.O. Box 1390  
 Vancouver, Washington 98666

## CSI executive board minutes

February 5, 1980

PRESENT: Moorman, Klas, McCormick, Ashton, Nelson, Kilbourn, Searl, Murphy, Obert, Hill.

1. The minutes of January 22, 1980 were reviewed and approved as circulated.

2. Don Ashton presented the Treasurer's Report. Ashton reported that the accounts receivable were being collected.

Current Monthly Treasurer's Report for Period Ending 31 January 1980 (9th-month of Fiscal Year)

Cash .....	0.00
Checking Account .....	74.91
Savings Account .....	4,975.32
Accounts Receivable .....	1,100.00
Postal Permit #1737 .....	87.11

Accounts Payable .....	0.00
NET ASSETS .....	6,237.34

A. Actual Income 1979/1980  
 for 9 months ..... 13,322.75  
 Actual Expenses 1979/1980  
 for 9 months ..... 15,600.67  
 NET (after 9 months  
 of F.Y.) ..... (\$2,277.92)

B. Accounts Receivable  
 Past Due Predicator  
 Advertising 78/79 ..... 290.00  
 CSI Dinner NO SHOWS ..... 60.00  
 Products Fair 78/79 ..... 150.00  
 Predicator  
 Advertising 79/80 ..... 600.00

C. Accounts Payable ..... 0.00

D. Inventory ..... No Change

Stan Nelson moved; Ivan McCormick seconded that the Chapter write off the funds owed by Contractor's Weekly NW Plan Center because of the computer time the company is donating to the Products Fair. Passed unanimously.

Ashton presented a resolution to the Board which authorizes the President and Secretary of CSI to execute all forms necessary to acquire tax exempt status.

Ashton moved; Nelson seconded that the Chapter adopt the resolution. Passed unanimously.

## letters to the editor

Dear Rod

I feel that I should write and tell you how much Rena and I enjoyed attending the Portland Chapter's 20th Anniversary Party. We greatly enjoyed seeing our old friends and meeting new ones in your chapter. I was quite interested in the history of your Chapter as explained in the program. My congratulations for a job well done to Bob Klas, Larry Brown, and all of the others concerned with making this celebration a success.

I opted not to say a few things during the program for the sake of time, but I do offer the Portland Chapter my congratulations on your 20th anniversary. Not only has your Chapter survived for 20 years, it has been very active and vital, a continual example of member involvement for our region and the entire institute. Your Chapter's support and involvement in technical and educational programs has been far above most of the other chapters in the institute. I wish your Chapter well for the next 20 years. If there is anything I can do to help your chapter, please let me know.

Again, Rod, congratulations to you and the Portland Chapter

Yours truly,

William R. Mincks

Gentlemen:

I read with apprehension the article "CSI Manual of Practice Revisions" in the February 1980 Predicator, Portland Chapter CSI, Portland, Oregon. See enclosed copy.

Another "major revision?" My gosh! My current manual of practice was received November 30, 1977: just a little over two years ago. It was not cheap. Now I have to purchase another one.

Why can't the Institute devise a Manual of Practice that will tolerate updating without having to be reissued? Surely that is in the realm of its expertise.

Sincerely,

Skidmore, Owings & Merrill

Ivan H. McCormick  
 Specification Department

(please turn to page 3)



(continued from page 2)

3. Rod Moorman announced that Dexter Walter has forwarded the nomination of the Oregon Council, Painting & Decorating Contractors of America to the Institute.

4. Committee Reports:

a) Products Fair — next meeting will be Tuesday, February 12, at noon. Nelson asked the Board members to solicit booths to their business contacts

b) Technical Committee — Lee Kilbourn reported that another technical aid series document had been approved and forwarded to the Institute. The next meeting will be Tuesday, March 25 at Zimmer, Gunsul, Frasca. 5:30 p.m.

c) Membership — Pat Murphy reported that new applications are slowing down. Each Board member is to recommend a member of CSI to serve on the Membership Committee.

d) Bob Klas reported that the Legal Issues Seminars are nearly full. This program has the best attendance of any national program offered in Portland.

5. NW Conference/National Convention

Moorman asked the Board members if they were attending either the NW Region Conference in Newport, April 17-20, or the Convention in Anaheim, June 16-18. Ken Searl was appointed to coordinate the delegation to Anaheim.

6. Bylaws

The Board discussed the Institute Bylaws vs the Portland Chapter Bylaws.


Ivan McCormick moved; Ashton seconded that the Chapter consider industry members as eligible for the office of President and President Elect.

Motion withdrawn — quorum not present.

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

Respectfully submitted,


Mary Alice Hutchins, Secretary  
Janet Hill, Recording Secretary



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## general contractors see inflation cutting 1980 construction market by \$15 billion

America's general contractors, responding to the annual Market Forecast\* survey of the Associated General Contractors of America (AGC), predict that construction dollar volume will increase by 5.5 percent in 1980. Survey results also show that contractors predict a 12 percent inflation rate in 1980, resulting in a net decrease of 6.5 percent (approximately \$15 billion) in the 1980 construction market.

On a nationwide basis, contractors predict slight pre-inflation increases in the dollar amounts of new construction in four major market categories. Commercial and institutional building construction is expected to increase by 5.8 percent. Municipal-utilities construction, primarily water and sewage projects, will increase 6.3 percent. Highway construction will show an extremely slight increase of 3.6 percent in current dollar volume. Heavy industrial construction, including dam, powerplant and navigational projects, will increase by 4.2 percent.

This survey also measured projected market changes in nine regions. The largest increase is expected in the Middle Atlantic region where dollar volume will rise by 9.4 percent, nearly matching the inflation rate. The poorest market conditions are forecast for the East North Central region, where dollar volume will decrease by 0.1 percent.


## new design standard announced

Approval of a new design standard for making buildings accessible for people with handicaps was announced for the first time at the National Easter Seal convention recently in Philadelphia.

The new standard which was approved by the Board of Management Review of the American National Standards Institute (ANSI) is the result of a five year project involving builders, manufacturers and organizations representing handicapped consumers and regulatory agencies. Mr. Joseph A. Wilkes, FAIA, of the Easter Seal Professional Advisory Council, chaired the convention session where the long awaited announcement was applauded by an audience of over 200 architects, code officials, manufacturers of building products and representatives of rehabilitation agencies.

The new ANSI standard is expected to be referenced in federal regulations and building codes within the coming year. Completion of the new standard is seen as critical in gaining uniformity in the mandate governing the compliance of federal laws that guarantee the rights of all handicapped persons to participate in the educational, recreational, housing and other community services.

The new standard includes for the first time specifications for living units including mobile homes, dormitories and other residences, design specifications for width of doorways, placement of wall fixtures, elevation of ramps, drinking fountains, bathroom fixtures, etc.




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### MECHANICAL SYSTEMS REVIEW

**OBJECTIVE** To review mechanical systems including plumbing, heating, air conditioning, and fire sprinkler systems as they may be encountered in the building design.

**PROGRAM** Introduction to Mechanical Systems  
 Plumbing Site Requirements  
 Plumbing Building Systems  
 Fire Sprinklers  
 HVAC. Heat Loss and Gain  
 HVAC. Systems  
 HVAC. Systems Including Solar & Other Special Systems  
 Review of Mechanical Systems

**INSTRUCTOR** Robert Inouye, P.E.  
 Affiliated with Morrison, Funatake, Inouye, Andrews, Inc. since 1961.  
 Graduate of Oregon State University, B.S. in Mechanical Engineering  
 Registered Professional Engineer in Oregon and Washington  
 Member: American Society of Heating, Refrigerating and Air Conditioning Engineers; Professional Engineers of Oregon; National Society of Professional Engineers; American Society of Plumbing Engineers; American Consulting Engineers Council; Consulting Engineers Council of Oregon.

**SEVEN SESSIONS** Wednesday Evenings / 7:00 - 10:00 PM

April 2	May 7
April 16	May 21
April 23	May 28
April 30	

**PLACE** Portland Chapter AIA  
 519 S.W. Third Avenue, Suite 200  
 Portland, Oregon 97204  
 503/223-8757

**FEE** \$60 for members/\$70 for non-members  
 Cost includes text: Mechanical and Electrical Equipment for Buildings

**REGISTRATION** Class size will be limited to 30.  
 Fees for registration must be received by March 26.

### MECHANICAL SYSTEMS REVIEW

NAME \_\_\_\_\_

ADDRESS \_\_\_\_\_

CITY/STATE/ZIP \_\_\_\_\_

FIRM/TELEPHONE \_\_\_\_\_

Please make checks payable to and mail to:

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 200 Dekum Building  
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## chapter board of directors

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### Vice President 1980

Warren Koepke  
503/643-9491

### Secretary 1982

Mary Alice Hutchins  
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### Treasurer 1980

Don Ashton  
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Don Eggleston  
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### Director 1981

Stan Nelson  
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### Director 1981

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### Director 1982

Ivan McCormick  
503/226-1431

### Director 1982

Les Seeley  
503/234-0281

### Past President

Bob Klas  
503/222-4221

## chapter committee

### Archives

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503/223-2920

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Dexter Walter Chairperson  
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### Awards

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### Chapter Affairs

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### Education

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Seminar #2  
Tom Young  
503/224-1940

Seminar #3  
Tod Lundy  
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Seminar #4  
Bob Klas  
503/222-4221

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Dick Gira  
503/234-0281

Seminar #6  
Sam Ream  
503/227-3176

### Hospitality

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503/234-0281

### Institute Education Committee

Larry Arnold Chairperson  
503/222-5384

### Liaison

Bob Klas Chairperson  
503/222-4221

### Membership

Pat Murphy Chairperson  
503/777-2204

### Products Fair

Stan Nelson Chairperson  
503/285-2856 or  
206/696-1651

Rustin Gesner  
206/695-5505 or  
206/696-9881

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## moorman's meanderings

by rod moorman

Last month I wrote about problems of communication between specifier and industry member. In spite of all good intentions, misunderstandings occur. When this happens, what is the best way to resolve differences?

There has been a proliferation of books, articles, seminars, and other communications dealing with construction claims, which reflect the growing number of lawsuits involving construction projects. Contractors are suing designers and owners. Owners are suing contractors and designers. Vendors and manufacturers are suing and being sued. Designers and specifiers are trapped in this malaise of litigation.

Of course specifications are not perfect, nor is design error-free. The material furnished is sometimes flawed. The contractor makes mistakes. This has been forever true, and it is my belief that the industry today is producing better specifications than ever before. Why then, the proliferation of lawsuits?

(please turn to page 2)

## april chapter meeting

The Portland Chapter of the CSI will hold its next meeting at the Mallory Hotel on Tuesday, April 8th.

The program for the evening will be A PANEL DISCUSSION ON GYPSUM DRYWALL — SPECIFICATIONS AND JOB PROCEDURES. The panel will include Architects Don Eggleston and Dick Ehman, Specifications writer Ivan McCormick, General Contractor Pat O'Brien, and Drywall Contractor Darrell Harding. Ed Charles, Drywall Industry Promotion Director, will serve as moderator. Plan to attend for an informative discussion of today's most widely used wall construction material.

The social hour will begin at 5:30 pm followed by dinner at 6:30 and the program at 7:30. Guests are welcome.

For reservations, call the CSI Office, 223-8231, by noon Monday, April 7th.

## double barrel features BS by KS

basic specs by ken searl

The Products Fair on April 17th, will offer to visitors eight simultaneous mini-seminars, arranged by the Educational Committee. The Committee would be receptive to others wishing to participate. You or your company should contact Dick Gira at 224-8226 if you would like to conduct additional seminars.

### THE PROGRAM

3:30-4:00

"Wood Windows in Commercial Construction"

Ken Hamstead, Chown/Pella Company, Portland

"Roofing Specifications", Part 1 (General) & Part 3 (Execution) Larry Brown, FCSI, Owens Corning Fiberglas Corp., Portland

4:10-4:40

"Solar Energy Storage"

Jim Powel, United Energy Systems, Portland

"CSI Technical Documents"

Lee Kilbourn, AIA, Zimmer, Gunsul, Frasca, Portland

4:50-5:20

"Wood Staining"

Herb Crane, Herbert O Crane & Assoc., Portland

"Safety in Flooring"

Robert Ross, Tarco Western, Inc., San Francisco

5:30-6:00

"Introduction to Overlay Drafting & Photo Reprographics"

Les Seeley, DEL Distributing, Vancouver

"Access Flooring"

Kent Loofburrow, Meriwether, Inc., Portland

## effective construction seminar

Charles Chief Boyd, voted outstanding speaker at the CSI National Convention in Cincinnati, will conduct a seminar on Tuesday, April 22nd, "Effective Construction Product Representation"

Industry members will meet from 8:30 am to 4:30 at Nendels, Portland. Cost is \$125 for CSI members or \$150 for non-members. Lunch and coffee are included in the fee.

In reading "NEWS AND VIEWS," the Toronto Chapter publication for March, 1980, I discovered one of its members, Arnold Barry, is a Fellow, a registered specification writer and a certified construction specifier, and is also listed as a member in the Construction Specifications Institute. As I see it, this must be Toronto's answer to our own Lee Kilbourn. Lee doesn't have quite as many initials after his name, but we are working on it. Lee is sometimes referred to as Mr. CSI and believe me, Lee has worked very hard for CSI for many years. Lee has probably won more specification awards than anyone else in the country. I don't know how people like Barry and Kilbourn do it, but I know both Canada and the United States are very fortunate to have these dedicated people, and I personally salute both of them.

In reading Canadian construction and specification news one notices a great similarity in problems, and that some problems of a certain type exist only in one country and not the other. Professional liability seems to be of utmost importance in both countries. A barometer of this is the cost for liability insurance. Not too many years ago our firm was paying approximately \$1,500 per annum with a \$2,500 deductible and now we are paying \$1,500 a month with a \$25,000 deductible. As one can plainly see, professional liability is a factor to be reckoned with and anything that can be done to reduce risks involved should be searched out and implemented as soon as possible. There are many ways one can reduce risk exposure but I believe the greatest one is to be very choosy and careful in choosing products or systems and then be sure your printed specifications are perfectly clear. (I wonder if Nixon would have made a good spec writer?)

## roofing conference

An intensive one-day program, The Conference of Built-up Roofing, will be sponsored by the National Roofing Contractors Association at the Portland Hilton on April 3rd. Registration cost is \$45 which includes a complete roofing library. Participants may register between 7 and 9 pm on April 2nd and enjoy a cash bar reception for the conference speakers, or at 8:30 am the day of the meetings.



(continued from page 1)

Today jobs are more complex, the material selection is more complicated, so the probability of bidding errors is magnified. This fact and the "sue syndrome" which permeates the nation today, have resulted in a court system clogged with cases.

Certain attitudes permeate our industry today as cancer attacks the body. One of these is the attitude that all contractors are dishonest, will not do a good job, and will exploit extras for profit. On the other side, contractors will sometimes reflect the attitude that designers and specifiers don't know what they are doing and don't know what they want.

At one time, the contractor's rights were minimal. If he did not want a job he did not have to bid. Then up stepped a lawyer in shining armor to rescue the defenseless contractor. Now another rescuer appears on the scene. With banners and colors flying, like the cavalry to the rescue, articles, books and seminars promise us help. "Construction Scheduling and Proof of Claims", "Practical Construction Law", and "Project Closeout", are examples of what is being offered. One of these seminars refers to the "adversary relationship" between the owner and the contractor.

Perhaps that is part of the problem. A construction contract has become an adversary relationship. I prefer to think of it as a partnership.

As we learn to handle disputes and become more proficient in the specification and design process, we must also recognize that arbitration and mediation are processes open to the construction industry. These methods should be considered for inclusion in all contracts as a way to resolve differences.

If arbitration and mediation are used to resolve problems, solutions could be reached faster, with less money, and would result in more consistently fair resolutions. Problems would be approached on a technical and logical basis rather than on a legalistic basis with its adversary framework. And settlement of a dispute would not have to wait on an already overcrowded court schedule.

"Adversaries" could resolve differences without the high cost and often unreasonable delay of a court case.

**mark your calendar:**

**April 17, 1980**

CSI PRODUCTS FAIR, Memorial Coliseum, 3 to 9 P.M., sandwiches for all attending, NO HOST BARS

## applications received

On February 1st, the final day for acceptance of registration for the 1980 CCS exam, 118 applications were received by the Certification Committee. The examination, given annually is scheduled for Saturday, April 12th, and will be administered at 29 locations throughout the United States.

## letters to the editor

To Dennis O.

I read your "Let's Organize the Short Spec" reproduced in the New Orleans Chapter newsletter **Invitation** from **The Predicator**.

Enclosed is a copy of my article "The CSI Format Can be Improved" which appeared in the March issue of the Jax Chapter's **Glue Pot**. I would welcome your comment.

Also enclosed is reproduction of a couple of pages from a "brief" spec. which may be too brief for your purpose but may be of interest for comparison of ideas.

Perhaps CSI should provide a means for exchange of ideas that members wish to share or discuss. How about a "white paper" on this subject?

Fred W. Bucky, Jr.  
1320 SCL Building  
Jacksonville, FL 32202

Editor's Note:

The article mentioned in the letter is reproduced below.

### **The CSI Format Can be Improved**

CSI's **Format for Construction Specifications** has been a great contribution in organizing the written construction documents in a standard, uniform manner. The 3-part section format provides a uniform system for presenting the information needed by each trade or craft in estimating and executing their work.

The documents consist of two classes: (1) graphic (drawings) and (2) verbal (written). Drawings are presented on **sheets** while the writings are on **pages**. Drawings generally consist of plans, elevations and **sections**, sometimes isometrics. Specifications are divided into Divisions and subdivided into **Sections**. Here, for the first time we encounter a word "section" being used in both classes of documents. In the interest of clarity, this should not occur and need not.

I have had a phone conversation in which the caller referred to a "section" which I was unable to locate because he was looking at a drawing whereas I was searching the specifications.

We have enough problems in the normal course of construction operations without building in terminology which can result in misunderstandings.

Accordingly, I propose that we continue to draw sections and call what we write "chapters." Before Jim Hemphill introduced the term "Project Manual" the volume which includes specifications was sometimes referred to as "the book". Inasmuch as books are commonly subdivided into chapters, such terminology should find acceptance with most readers.

Fred W. Bucky Jr., CSI

## CSI executive committee

March 6, 1980

PRESENT: Moorman, Sampier, Seeley, Nelson, Kilbourn, Searl, McCormick, Koepke, Hutchins, Obert, Ashton, Hill, Murphy, Arnold.

1. Nominating Committee:

Les Seeley discussed the time frame for nominations being presented to the Chapter.

A notice will be sent out Wednesday, March 5, with the meeting notice, providing the chapter with the slate for the 1980-1981 Board of Directors:

### PROFESSIONAL

Jerry Eaker, Eaker & Associates  
Bill Merritt, Stoel, Rives, Boley, Fraser & Wyse

### INDUSTRY

Jim Davidson, The Cronin Company  
Dick Gira, Northwest Lath and Plaster Bureau  
Pat Murphy, Western Block

2. Convention/Northwest Regional Conference:

Don Ashton presented a letter from the Institute concerning convention delegates for the Portland Chapter.

Don Ashton moved; Warren Koepke seconded that the number of delegates for the convention be approved by the Board. Passed unanimously.

(please turn to page 5)



## construction industry litigation

Reprinted by permission of *Doors & Hardware Magazine*, March, 1980

by J. Norman Stark, esq.

Lawsuits arising out of contracts for construction are predictable and avoidable. Historically, the basic principles of contract law, fully applicable to construction contracts, have changed little in the first 80 years of this century and are not likely to change much more in the remaining 20 years before the year 2000.

The *purpose* of a written contract is to evidence the terms on which the minds of the parties to it met when they made it, and ascertainment of those terms, and the sense in which the parties to the agreement used them when they agreed to them, is the great desideratum and the true end of all contractual interpretation. In the discovery of this meaning, the intention, the situation of the parties, the facts and circumstances which surrounded and necessarily influenced them when they made their contract, the reasonableness of the respective claims under it, and above all come the subject matter of the agreement and the purpose of its execution, are always conducive to and often as essential and controlling in the true interpretation of the contract as the mere words of its various stipulations. (Emphasis added.) *Salt Lake City v Smith*, 104 F 457 (8 Cir 1900).

Much litigation, with its attendant delays, expense and attacks on reputation and credibility by the opposing factions, *can* be avoided by using, at each critical stage, detailed management controls and checklists similar to those used in mortgage financing and landlord-tenant leasing agreements. Lenders, landlords and tenants seem to be among the few in the overall transaction who insist upon the sensible protection of their interests on the basis of sound business practices. In the construction field, detailed checklists and supportive legal documentation should be available and used diligently for each of the following stages:

- A. Governmental review, approvals and permits
- B. Environmental and sanitary review, approvals and permits
- C. Fire protection and access highway review, approvals, and permits
- D. Land options
- E. Land review—zoning, use, appraisal, utilities, highways, rail facilities, labor, market study
- F. Architectural, engineering, consultant, and construction management agreements (with *specific* target dates clearly enumerated)

- G. Construction loan agreements, commitments, permanent financing commitment and/or agreements
- H. Loan approvals and recording
- I. Construction contracts, subcontracts, and supply agreements (with project schedules and target dates clearly enumerated for *all* participants)
- J. Warranties, guarantees, operating manuals and instructions, service agreements for major equipment and systems.
- K. Occupancy and security agreements, with tenant-occupier insurance coverage as condition precedent to occupancy of any space.

The troubled project is invariably recognizable by the physical structure and its completion having been accorded much less stringent criteria and attention to procedural detail than is prudent, particularly in view of the enormous sums of time, money and labor involved in the complex processes. Coordination and timing of legal follow-up and implementing the detailed checklists established far in advance, may be as important as the delivery of materials to the site — on time, in the right place, and in the right proportions!

Construction contract claims, with few exceptions, arise out of one or more of the following causes:

- A. Design deficiencies
- B. Contract document deficiencies
- C. Differing site conditions
- D. Differing subsurface conditions
- E. Work delays and suspensions
- F. Construction processes and techniques
- G. Governmental prohibition or restriction
- H. Work and project acceleration
- I. Unanticipated cost increases
- J. Shortages of critical materials
- K. Periodic and final payments
- L. Owner and tenant acceptance and occupancy
- M. Latent and patent defects and deficiencies

The level of managerial and legal expertise available to *each* of the parties involved in a construction project must be of the highest calibre, and should be made a part of the team at *all* critical phases. Random contact with an occasional legal counsel or firm, without the specialized competence in the construction process vital to the understanding of the work, is an open invitation to litigation, conflict and loss. Here, the function of legal counsel is to foresee problems before they arise, and to preclude the nightmare of project delays, losses, "extras," damages, and charges of professional negligence and business incompetence.

While the primary test of the character of a construction contract is the intention of the

parties, viewed from the entire scope and meaning of the words used, these groups of phrases will be disregarded if found inconsistent with the true intent of the parties by other, more convincing evidence. And, where words alone are insufficient to confirm the existence of a contract by the elements, i.e.: (a) of meeting of the minds, (b) intention to assume an obligation, and (c) understanding of the parties, courts have looked to the actual situation, acts, and conduct of the parties, *and* the surrounding circumstances to determine the existence and intention of the contract applicable.

When agreements are not clear, and subject to more than one interpretation, the opinion may consider whether a contract existed at all:

There may be a contract implied in law on a point not covered by an express contract, but there is no implied contract on a point fully covered by an express agreement

And, whether the contract being considered was express or implied, i.e. the terms expressed clearly and without ambiguity, or are to be understood from other facts or circumstances:

A contract is express when the parties show their assent in words. A contract is implied in fact, commonly called an implied contract, when the parties show their assent by acts

Without other indicia of what was intended by the parties, some contracts may have to be construed on the basis of the outward acts and manifestations of the parties:

A contract will be implied in fact only when the court may fairly infer such an intent from the evidence; it represents the presumed intention of the parties as indicated by their conduct.

Still another court, applying the law of that jurisdiction, at still another time evaluated the written contract in another, no less important light:

Writing is only the evidentiary manifestation of the contract between the parties; it is not the contract itself.

Generally, construction contracts refer to the "... plans and specifications ...," making them a part of the contract documents by referring to them in those words. But, in so doing, the contract is to be considered as to its terms *and* scope, together with the plans and specifications. "Such reference must be sufficient to identify the plans or documents referred to." Distinguishing the specifications from the

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plans another court set an important legal precedent: "The specifications are but the particulars or details of the plan and the term "plan" fairly embraces the specifications for the building."

Where building and construction contracts provide that the work shall be done in a "... workmanlike manner ..." or words of similar meaning, such a term or terms have a relative meaning, depending upon the context in which they are used, and the kind of construction work involved. "... otherwise the parties might be bound to obligations impossible to discharge and which were never intended to be undertaken." At least one other authority distinguished these provisions even further, stating that where the work is to be done in a good and workmanlike manner, it relates to the things specified to be done and does not impose on the contractor the duty of doing acts or things, or taking precautions which ought to have been, but were not provided for in the plans and specifications.

Construction litigation arises because construction and contract documents are what they are, and what the parties say they are, and what custom and usage say they are, and what legal counsels say they are, and what the parties say they (understood) they are, and of course, upon litigation, what they say they are. In the final analysis, they are what the court says they are.

**mark your calendar:**  
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Six northwest natural gas distribution companies are sponsoring an energy seminar for Northwest Architects, Engineers and Associates at the Jantzen Beach Red Lion Inn, April 16 and 17

Major topics of interest include: The Energy Revolution — its effect on building design; New gas equipment for the 80's; Conservation Technology to meet Building Energy Performance Standards; Practical equipment applications for multiple dwellings.

Featured speakers include Fred S. Dubin, President, Dubin-Bloome Associates, New York, whose firm designed the award winning Solar Energy Research Institute building in Golden, Colorado. John Schneider, Division Vice President, May Design and Construction Company, St. Louis, will discuss the effect of BEPS on shopping center design.


Judging from early registrations, this timely seminar has already been acknowledged as worthwhile by members of the professional community. Plan now to join the many Architects and Engineers from Seattle, Spokane, Medford, Boise and throughout Oregon who are scheduled to attend.

For registration forms and complete program information, call Northwest Natural Gas Company, (503) 226-4211.

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3 Salem Members:

It was suggested that a Chapter Meeting be held in Salem. Ken Searl will look into that possibility

4. Treasurer's Report:

Current Monthly Treasurer's Report for Period Ending 29 February 1980 (10th month of Fiscal Year)

Cash/check received ..... \$2,340.00  
 Checking Account ..... 1,102.25  
 Savings Account ..... 4,925.32  
 Accounts Receivable ..... 631.50  
 Postal Permit #1737 ..... 103.55

Accounts Payable ..... 73.00  
**NET ASSETS ..... \$9,029.62**

A. Actual Income 1979/1980  
 for 9 months ..... \$16,590.00  
 Actual Expenses 1979/1980  
 for 10 months ..... 15,600.67  
**NET (after 10 months  
 of FY) ..... (1,300.58)**

B. Accounts Receivable  
 Past Due Predicator  
 Advertising 78/79 ..... 100.00  
 CSI Dinner NO SHOWS ..... 31.50  
 Predicator  
 Advertising 79/80 ..... 500.00


C Accounts Payable ..... 73.00

D Inventory ..... No Change  
 in Liquid Stock

**revision of locator  
 guide**

The Engineers' Joint Contract Documents Committee plans to revise the Uniform Location of Subject Matter publication (CSI Document 46471 or AIA Document A521) during 1980


The Locator Guide has received wide acceptance and is an important publication. However, only a few suggestions have been received from users. For consideration during this revision cycle, comments may be submitted to Lee Kilbourn, with a copy to Walt Geisinger at CSI, prior to May 15, 1980, or to Robert E. Vansant, c/o Black & Veatch, PO Box 8405, Kansas City, MO 64114.



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volume 19, number 9 construction specifications institute, portland chapter

may, 1980

## moorman's meanderings

by Rod Moorman

CSI is for the benefit of all of us, the producer's representative, the contractor, the architect, and the engineer. If it seems at times that the Institute isn't functioning perfectly, we still must realize that we can get a tremendous amount of information and help through the organization.

Of course neither the Institute nor the Chapter can work at 100% efficiency, but consider how much we could accomplish if each of us contributed only one hour of productive work per month to the Local Chapter. If you are not now on a committee, call the Chairman of your choice and offer to give him a hand.

I am sold on the CSI and its usefulness, though I don't agree with everything they do. Like Martin Luther, who was sold on Christianity, but disagreed with the organized church, I would like to nail my reforms — my "Theses" — on the door of the Washington, D.C. CSI office. (Although this actually would be like Luther going to Rome rather than to his local cathedral.) But instead of a nail to fasten some very loose specifications I would like to use pressure sensitive tape with very strict specifications.

For example, I would guess that about 98% of the people specifying heavy, civil, and special construction, aren't using the Fifteen Division format. More than half of the construction falls into categories other than residential and commercial building, yet most people use some sort of standardization in Divisions 0 and 1, and use the three-part format.

Standard formats are great, but to compress all construction into one standard Fifteen Division format is not practical.

Presently, steel towers are in Division 2, Site Improvement. A hundred mile line, which could involve 25,000 pounds of steel is not a "Site Improvement"! All this is in a subparagraph under a narrow-scope little Door hardware is a broad-scope item.

The Federal Highway Administration publishes a standard specification for

(please turn to page 3)

## may chapter meeting · BS by KS

Basic Specs by Ken Searl

The Portland Chapter of the CSI will hold its next meeting at the Mallory Hotel on Tuesday, May 13. The program for the evening will be INTRODUCTION TO VALUE ENGINEERING: CASE HISTORIES. Harry Russell, president of the Portland Chapter of the Society of American Value Engineers, will present a panel of members from his group. Russell will introduce the topic and each panel member will present a case history and answer questions on his case. Members of the Society not on the panel will be joining us for the meeting.

The social hour will begin at 5:30 followed by dinner at 6:30 and the program at 7:30. Guests are welcome.

For reservations, call the CSI office, 223-8331, by noon Monday, May 12.

## results of recent CSI elections

Newly elected officers of the Portland Chapter, CSI are:

President ..... Ivan McCormick  
Vice President ..... Les Seeley  
Secretary ..... Don Eggleston  
Treasurer ..... Stan Nelson

### Board Members

Professional ..... Jerry Eaker  
William Merritt  
Industry ..... Dick Gira

Newly elected National Institute officer and directors are:

President-elect ... Robert J. Schmidt, FCSI  
Vice President  
(Professional) .. R. James Noone, FCSI, CCS  
Vice President  
(Industry) ..... Roscoe D. Smith, FCSI  
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Northeast .... Harry L. Johnson, FCSI  
Northwest ..... William R. Mincks  
Southeast ..... Gerald L. Gohs  
West ..... Francis J. Smith

William R. Mincks from our Northwest Region was elected Director

Our country has had time since 1973 to do something about dwindling oil supplies. Not much was done in this period. The administration seemed to be in pursuit of other problems which apparently had higher priorities. Environmentalists were preventing or slowing down construction of refineries, nuclear plants and coal-fired plants.

Once again we seem to be in an energy crisis, triggered by Iran's internal strife. While this may be the apparent catalyst, I put this under the heading of blowing smoke in the wrong direction. I place the blame on this country's lack of decisive action in converting oil-burning equipment to gas-fired or electrically operated, and taking other necessary steps. In the immediate foreseeable future, natural gas should be in good supply. Wherever possible oil-burning equipment should be converted to gas, coal or electricity.

To do this within a reasonable length of time, great emphasis will have to be placed on electric generating plants. Hydraulic sites not yet developed should be developed as soon as possible. If we are not allowed new nuclear plants, then we must get coalburning, steam generating plants under construction.

One of our greatest problems in our efforts to get new plants built within a reasonable length of time, is delay caused by impact statements, government red tape, and environmental group pressure. Something must be done soon to point out the need for new plant construction, or we must thwart these misguided efforts. No longer can this country afford total environmental control, total red tape, and still survive. Between the present administration's tight money, which feeds inflation, and the world energy crisis, we are being brought to our knees.

There has been talk about developing solar, geothermal, wind, and other sources of energy. I agree this should be done, but presently these are just a drop in the bucket. Solar power, where practical, should be used, but until we can transmit electric power direct from the sun, we will not get enough help from this source. There is good research by Boeing and others on direct power from the sun.

(please turn to page 2)



## lighting and legal liability

Public and private owners of lighting systems may be subject to legal liability problems when their lighting systems do not provide the safety and security they should.

According to the National Lighting Bureau, citing a recent report issued by the Law Enforcement Assistance Administration (LEAA), "Municipalities and private owners both have been found guilty of negligence in instances where lighting systems have failed to perform as well as they should have. According to the LEAA report, the city of Chicago Heights, Illinois, was held liable for injuries sustained by a motorist at an intersection with an improperly placed and glaring street light. In another case, the city of Los Angeles was found liable for injuries suffered by a person who fell after parking lot lights were suddenly extinguished.

"The report also notes that owners of private property have been held liable for injuries and criminal attack sustained by employees, church members, tenants and customers as a result of defective lighting. In one case, for example, a police officer was killed while patrolling the rear of a store where the owner had turned off the lights. The officer's widow successfully sued the store owner for negligence and imperiling the safety of an invitee."

The NLB went on to note that the issue of lighting and legal liability is coming in for closer scrutiny due to the nation's energy woes. It said: "The LEAA report intimates that reducing street lighting to save energy may result in increased street crime and, if that occurs, a municipality perhaps could be sued for negligence. Earlier cases could be cited feasibly as precedents."

The NLB stated that reducing street lighting "is not an effective way of reducing energy consumption, because it also reduces the effectiveness of the lighting. Which is not to say that nothing can be done. In fact, most street and highway lighting used in the United States is inefficient because it fails to utilize much of the latest technology. It is estimated that billions of kilowatt-hours of electrical energy and millions of dollars could be saved annually throughout the United States just by converting to more efficient lighting. By making such conversions, the goals of night-time safety and energy conservation become completely compatible."

For more information on lighting and steps which can be taken to preserve its benefits

while reducing energy consumption, send for *Getting the Most from Your Lighting Dollar*, a 24-page guide written in layman's terms, and reviewed by the U.S. Department of Energy. The booklet is available from the National Lighting Bureau, 2101 L Street, N.W., Suite 300, Washington, D.C. 20037. Remittance of \$1 per copy, to cover postage and handling, must accompany your order.

## new ceramic tile standards association

Technical help in the construction industry adds a new source for standards of quality and performance in the ceramic tile industry. For current bulletins on this material write: Methods and Materials Standards Association, c/o H. B. Fuller Co., 315 South Hicks Road, Palatine, IL 60067.

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basic specs

(continued from page 1)

Our automobiles may now be less polluting but there is something wrong when we get less mileage. This is progress?

I am not sure this article will do much in stirring up action, but I just had to get it off my chest. I feel strongly that our energy system is of prime importance, and next in order is to balance the Federal budget and quit printing phony money.

## NEW ENERGY CONSERVATION GROUP ORGANIZED

A new national group has been organized for the training and licensing of contractors qualified to perform computer-assisted energy audits on industrial, commercial and other non-residential structures. Known as "TEAM" — an acronym for Total Energy Assistance to Management, Inc. — the organization grew out of the realization that "America's contractors must perform the retro-fitting of present buildings to a condition of energy-efficiency," according to Daniel J. Vaughn of Syracuse, N.Y., TEAM president.

"There are not enough qualified people to do the immense auditing job that lies ahead," Vaughn said. "Contractors must learn auditing and energy-related retro-fitting skills." TEAM is now recruiting contractors for membership from the insulation, heating, air conditioning, electrical, plumbing, door and window, solar, and solar film fields.

"America is just now realizing that most of its buildings are obsolete," Vaughn claims, "because they were built to construction cost standards rather than to operating cost standards."

TEAM plans to provide its members with the necessary expertise to recognize the need for retrofitting operations through its audit training program, conducted by the nation's leading energy auditing specialists.

TEAM auditors will have access to computer terminals through which they can create detailed recommendations for virtually all types of buildings.

Contractors wishing further information on becoming members of TEAM should write to TEAM, Inc., P.O. Box 66, Barrington, R.I., 02806, or call (800) 556-7468.



## directors' report

We have just returned from the Institute Board of Directors meeting held on February 9-10 in Washington D.C. As you might expect, there were a number of housekeeping matters, but we also spent a great deal of time addressing two difficult problems: how equitably to fund the Institute Technical Documents Committee, and how to solve the problem of skyrocketing rental payments faced by our headquarters office in Washington D.C.

### 1. COMMITTEE FUNDING

As most of you are aware, each Region of CSI is entitled to one participating member on the Institute Technical Documents Committee and the Institute Education Committee. The Institute pays costs to assemble the committee members for their first meeting in Washington D.C., but the costs for subsequent meetings (usually two additional meetings each year) must be borne by each Region. Obviously the cost to the Northwest Region is considerably greater than that of the Regions on the East Coast. With the staggering increase in air fares, the western Regions are facing bankruptcy.

The eastern Regions annually assess their members approximately 50¢ per member, while we are forced to assess our chapters \$3 per member. Recognizing this inequity, the Board authorized President Steinmann to appoint an ad-hoc committee to study the problem and to propose a solution. We sincerely hope that they will act rapidly to offer our Region some quick relief.

This funding problem, which was brought to the Board's attention by your directors, has hit our Region the hardest, although the West Region shares it as well. We did not achieve specifically what we had set out to accomplish, but we did make the Board aware of the problem. The ad-hoc committee study should help achieve more equitable funding. Incidentally, President Steinmann has appointed one of your directors, Mincks, to this committee.

### 2. INSTITUTE HEADQUARTERS OFFICES

Our staff offices are now housed in leased space located in downtown Washington D.C. Two problems exist. We are seriously overcrowded, and when our lease expires next year, our landlord wants to increase our annual rent from \$48,000 to \$84,000. (We shudder to think how much this space may cost in future years!) Obviously we are going to have to make other arrangements. We must move out of the "high rent district" or build our own building.

Fortunately Joe Gascoigne, our Executive Director, foresaw the problems and we are pleased to report the Board unanimously authorized the appointment of an ad-hoc committee to review Gascoigne's plan for CSI to construct its own building. If the committee approves the proposed arrangements, they are empowered to implement the program as soon as possible. There is insufficient space herein to explain the complicated financial arrangements, but the plan, which will employ the use of industrial revenue bonds, will require no increase in member dues nor the use of present capital.

### 3. OTHER NEWSWORTHY INFORMATION

Four-hundred-and-sixteen exhibitors have contracted for booth space at this year's convention in Anaheim, California. This constitutes the largest number contracted, and except for the National Homebuilders Exhibit, ours will be the largest building products show to be presented. CSI will probably never have a convention any closer to our Region, and we urge you to attend. You will find it a worthwhile experience.

According to Institute records, our Region membership is as follows:

Chapter	6/30/79	1/31/80	Net Increase	% Increase
Cook Inlet	63	66	3	4.8
Portland	210	210	0	0.0
Puget Sound	300	304	4	1.3
Spokane	74	90	16	21.6
Willamette Valley	102	113	11	10.7
Totals	749	783	34	4.5 (average)

Bill Mincks  
Paul Edlund, FCSI  
Directors, Northwest Region

## moorman's meanderings

(continued from page 1)

construction of roads. It has very little in common with the organization of the Fifteen Divisions. Each of the fifty states publishes standards, and the few I have seen don't follow the federal standard format.

Trying to force all kinds of construction into the Fifteen Divisions not only emasculates the non-building specification but seriously weakens the building construction specification. Standards are a double-edged sword. They can keep the designer from re-inventing the wheel or they can stifle change and progress.

## fire safety costs cut for health care facilities

A computerized procedure that can be used by health care facility administrators, architects, and engineers, and fire safety specialists to identify the least cost means for health care facilities to achieve compliance with the National Fire Protection Association's 1973 Life Safety Code has been developed by NBS researchers. Based on the Fire Safety Evaluation System developed earlier by NBS for the Department of Health, Education and Welfare, the procedure is designed to help reduce the cost of facility compliance with the Life Safety Code by as much as 50 percent without reducing the level of fire safety for building occupants.

**Economic Aspects of Fire Safety in Health Care Facilities: Guidelines for Cost Effective Retrofits** (NBSIR 79-1902), available for \$9.00 from the National Technical Information Service, Springfield, VA 22161. Order by #PB 80-120165.

While it is great to be able to rely on tested standards, care must be taken to assure that the standard is up-to-date. Everyone's participation in CSI will assure that we all keep abreast of standards, and see that they remain current. The more we all participate, the better each of us can do the job. Whether we agree or not on the standard format, a better product will result if we all work on it.

Participate in your CSI. Discuss with others your field of expertise, and the advantages of existing standards or the needs for new ones.



## report of april CSI meeting

Tuesday, April 8, Portland Chapter CSI had an excellent program on gypsum board. Ed Charles, Industry Promotion Director of the Drywall Industry Promotion Fund of Oregon and Southwest Washington, was the moderator.

Ivan McCormick stressed the care necessary in specifying gypsum board, adding a statement in Division 1 (Construction Facilities) about having the building enclosed before installing drywall. Also, the room should be at least 55°F for 24 hours before, and 4 days after installation of drywall so taping mud will dry satisfactorily.

Don Eggleston's topic was inspection, and he stressed that one should read the specifications before an inspection. He also pointed out that gypsum board and paint cannot correct wall framing not built straight initially.

Dick Ehmann discussed special job conditions, such as high relative humidity, which affect the drying time. He also indicated that brown pigmentation is caused by alkaline moisture, and aquamarine, by acid. Exterior gypsum board is not the same as interior, and requires open joints for expansion and to prevent migration of water. Also, facia should protect the top of exterior gypsum boards.

Pat O'Brien presented the general contractor's point of view. He indicated that temporary heat is now costing between 5 and 10¢ per square foot per month. Contractors need to get good specifications and drawings to do a good job. For example, metal studs should be specified in either Division 9 or Division 5 but not both.

Darrell Harding, an installing subcontractor, discussed the problems of installing gypsum board and stressed the need for more cooperation and better scheduling. He suggested a pre-installation conference including gypsum board installer and painter.

Ed Charles showed a film on Ames Taping Tools which helped explain some of the problems of gypsum board finishing.

Bill Knorr then gave information on metal studs as an alternative to wood frame construction. He stressed the potential for welding wall units together in a shop and taking them to the construction site as a unit.

Ed Charles concluded the program by advising that the following publications are available from the Drywall Industry Promotion Fund, 4242 S.E. Milwaukie Ave., Portland, OR 97202, Phone 232-1484.

USING GYPSUM BOARD FOR WALLS & CEILINGS

RECOMMENDED SPECIFICATIONS FOR THE APPLICATION AND FINISHING OF GYPSUM BOARD


RECOMMENDED WORK PROCESSES IN THE FINISHING OF GYPSUM BOARD

FIRE RESISTANCE DESIGN MANUAL, 1978 EDITION

STEEL FRAMING SYSTEMS MANUAL


Several panelists recommended the GYPSUM CONSTRUCTION HANDBOOK, a 470 page paperback, pocket-size volume available for \$3.50 from the United States Gypsum Co., Chicago, Ill.

The Flinkote Co., Gypsum Division representative, Roy Watson, displayed a 1/4" = 1" scale template, No. F-817 for wood and metal framing components. The template is available for \$5.00 from their Gypsum Merchandising Dept., P.O. Box 800, Dallas, Texas 75221. He also offered a handy guide to select stud gage and depth for 2-hour rated assemblies.

**William J. Billings**  
Industry Consultant

**Ceramic Tile Institute of Oregon**  
3609 S.W. Corbett, Suite 4, Portland, Oregon 97201 503-224-1940



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**James F. King**  
President



# CSI board meeting minutes

April 1, 1980

PRESENT Moorman, Nelson, Sampier, McCormick, Largent, Obert, Eggleston, Searl, Koepke, Hill

1 Arbitration Board: Gordon Todd is currently serving as an advisor to the Arbitration Board. Todd would like someone to take his place for 1980-1981. Rod Moorman is interested in taking that position.

2 Awards Committee: The Oregon Council of the Painting and Decorating Contractors of America have received the Commendation Award from the Institute for their manual.

The question was raised whether the nomination had been submitted for a Regional Award. Moorman will speak with Dexter Waller.

3 The minutes of March 4, 1980 were reviewed and approved as circulated.

4 Election: Fifty ballots have been received in the office as of April 1, 1980. There was discussion as to why professional members are reluctant to run for office — many feel they cannot devote the time.

5 Product's Fair: Stan Nelson reported that he had added 10 booths for the Product's Fair. Everything is going well.

6 Dick Gira reminded the Board of the April 22, 1980 seminar for industry members. A report from the Institute indicated good attendance.


7 Margie Largent reported that she was preparing to put the CSI Roster on a "floppy disk" system at Oregon Services, Ltd. Ivan McCormick moved. Stan Nelson seconded that the Chapter allocate money for this project. Passed unanimously.

There will be two special Board meetings:  
 Wednesday — April 16 — Election of Officers  
 Wednesday — April 23 — Bylaws Meeting

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

Respectfully submitted,


Mary Alice Hutchins, Secretary  
 Janet Hill, Recording Secretary



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 W. N. "NICK" MERRIMAN, CSI  
 MASONS SUPPLY COMPANY 2637 S.E. 12th  
 234-4321 Portland, Oregon 97202



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6775 S.W. 111th Ave.  
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**Modernfold**  
**Northwest Inc.**  
 Res. Phone 635-2498 **WARREN C. KOEPKE, CSI**  
 Architectural Representative





**Associated Floor Covering Contractors**  
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## chapter board of directors

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Rod Moorman  
503/234-3361 Ext 5375

### Vice President 1980

Warren Koepke  
503/643-9491

### Secretary 1982

Mary Alice Hutchins  
503/223-2920

### Treasurer 1980

Don Ashton  
503/223-0742

### Director 1981

Don Eggleston  
503/228-6444

### Director 1981

Stan Nelson  
503/285-2856 or  
206/696-1651

### Director 1981

Jane Sampier  
503/234-0281

### Director 1982

Ivan McCormick  
503/226-1431

### Director 1982

Les Seeley  
503/234-0281

### Past President

Bob Klas  
503/222-4221

## chapter committee

### Archives

Mary Alice Hutchins, Chairperson  
503/223-2920

### Audit

Dexter Walter, Chairperson  
503/655-7166

### Awards

Dexter Walter, Chairperson  
503/655-7166

### Chapter Affairs

Ivan McCormick, Chairperson  
503/226-1431

### Education

Dick Gira, Chairperson  
503/234-0281  
Bret Biggs  
503/222-9367

Stan Carper, Jr.  
503/655-5115

Robert Inouye  
503/234-0548

Joe Lane  
503/284-1508

Jimie Luey  
503/228-9468

Seminar #1  
Jeff Beukema  
503/234-0281

Seminar #2  
Tom Young  
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Seminar #3  
Tod Lundy  
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Seminar #4  
Bob Klas  
503/222-4221

Seminar #5  
Dick Gira  
503/234-0281

Seminar #6  
Sam Ream  
503/227-3176

### Hospitality

Jane Sampier, Chairperson  
503/234-0281

### Institute Education Committee

Larry Arnold, Chairperson  
503/222-5384

### Liaison

Bob Klas, Chairperson  
503/222-4221

### Membership

Pat Murphy, Chairperson  
503/777-2204

### Products Fair

Stan Nelson, Chairperson  
503/285-2856 or  
206/696-1651

Rustin Gesner  
206/695-5505 or  
206/696-9881

Ivan McCormick  
503/226-1431

Larry Brown  
503/620-1014

Don Eggleston  
503/228-6444

Lee Kilbourn  
503/224-3860

### Program

Jim Davidson, Chairperson  
503/226-3508

Ed Charles  
503/234-1484

Jim Grady  
503/228-5151

Jeff Shearer  
503/227-1426

### Public Relations

George Aldridge, Chairperson  
503/288-0181

### Publications

Dennis Oberl, Chairperson  
503/228-6444

Joan Swinney, Editor  
503/223-8231

Janet Hill, Production Assistant  
503/223-8231

Lee Kilbourn, Circulation  
503/224-3860

Andrew Olson, Technical Editor  
503/249-2000 Ext 411

Cristal Johnson, Ad Manager  
503/234-0281

Ken Scarl, Columnist  
503/223-1181

Marge Largent, Roster  
503/636-6977

Perky Kilbourn, Reporter

Laura Oberl, Photographer

### Technical

Lee Kilbourn, Chairperson  
503/224-3860

## the predicator

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# the predicator



volume 19, number 10 construction specifications institute, portland chapter

June, 1980

## moorman's meanderings

by Rod Moorman

Say "HELLO" in your specifications. Without the "O" your specifications will become "HELL." Not that we all don't need a lot of HELL but HELLO is better

I think you'll agree with me if you can meander through this acronym I clobbered together:

**H**onesty  
**E**thics  
**L**egality  
**L**anguage  
**O**rganization

You see, without "Organization", the whole thing becomes HELL.

I could write volumes on Honesty, Ethics, Legality, Language, and Organization, but I hope you will read just these words and think about them in your daily dealings. They are so entwined that they are almost inseparable.

**Honesty** I fear there is still too much of the altitude which passes the responsibility of finding errors, omissions, or conflicts of **L**anguage to the contractor Court decisions; have changed this somewhat but there are still too many professionals who try to shift their **E**thical responsibility rather than honestly admitting mistakes and extending the extra effort to prevent them.

Specifications become part of a contract, which is a **L**egal document. So, as much as we bemoan the fact that we have the legal profession sometimes distorting technical aspects of specification writing, **L**egality is part of our HELLO.

Now let's look again at the "O" for **O**rganization. Remember, without the "O", HELLO is still HELL. The Three-part Format and the Seventeen Divisions provide a powerful organizational tool. (Divisions O through 16 add up to seventeen divisions. I am not now going to argue the point that we may or may not need more divisions or that we need more flexibility.) The closer you can follow the CSI Format, to every practical extent possible, the better **O**rganized you will be. Use it, as our standard existing construction specification format, and thus be organized, and change HELL to HELLO.

## june chapter meeting BS by KS

Basic Specs by Ken Seerl

**DATE:**  
Tuesday, June 10, 1980

**PLACE:**  
Sokol Blosser Winery  
The road to the winery, Blanchard Lane, is off Highway 99W, 2½ miles west of Dundee. Watch for a sign for Blanchard Cabinet Shop which is on the same road. Turn right on Blanchard Lane; the winery is about half a mile. If you pass a truck weighing station on 99W, you have gone too far.

**TIME:**  
6:00 — 8:00 p.m.

**PROGRAM:**  
Optional tour of the winery  
Wine Tasting — Gerwurztraminer, Bouquet Rose, Merlot, White Riesling. Soft drinks will be available.  
Dinner — Torta Rustica, in-season marinated vegetables, coffee and tea.

**COST:**  
\$10.50 per person.

This is our social night, so bring your spouse, a date, or friends. The winery is an attractive building in a beautiful setting. We'll have a great time, especially if the weather is nice.

A word of caution, we are limited to 90 people.

Reservations must be made by Friday, June 6, 1980. Call the CSI Office at 223-8231.

## information from don walton

Northwest Region Trustee Don Walton has prepared the minutes of the Northwest Coordinating Council meetings, as well as the minutes of the Northwest Annual Membership Meeting, at the 1980 Region Convention in Newport. Complete details of these subject meetings from the Conference are available in the CSI office or from new President, Ivan McCormick.

In "Moorman's Meanderings" in the May 1980 issue of *The Predicator*, Rod appears to feel that the standard CSI Sixteen-Division format won't work for certain projects, particularly steel towers, and, I presume, transmission lines. Rod states that presently steel towers are in Division 2, Site Improvement. He further states that a hundred mile line, which could involve 25,000 pounds of steel, is not a "Site Improvement." I agree with the last statement, except 25,000 pounds of steel seems a mile shy for a hundred mile line, and I disagree with his first statement. I always thought steel towers should be specified in Section 02800, Power and Communication Utilities, and if more narrow scope is required, include Section 05100, Structural Metal Framing, and 05500, Metal Fabrications. Section 02200, Earthwork, and Section 03300, Cast-in-place Concrete should also be incorporated in the specification. It seems to me one shouldn't have too much trouble to properly specify a power transmission line using standard CSI

(please turn to page 2)

## solar envelope home

A panel discussion and slide presentation will cover the Solar Envelope House at the Monday, June 23rd meeting of the Columbia Solar Energy Association (CSEA) held at OMSI at 7:30 p.m. The panel will include an architect, engineer, builder, and home owner. Topics will include building codes, construction costs, techniques, and design considerations. Slides of several local examples of double-shell solar homes will be shown.

Anyone interested in practical solar application is cordially invited to attend.

## ATTENTION GOLFERS!

Start getting ready for the Annual AIA/CSI Golf Tournament this summer.



## northwest region conference 1980 at newport

by Perky Kilbourn

*How To Cope With Tomorrow Now That It Is Here* was the subject of the keynote address at the 1980 CSI Northwest Region Conference April 17th. At the Embarcadero in Newport, Glenn Abplanalp, FCSI, keynote speaker, discussed problem areas in the construction industry. He saw problems in the language of communication with clients, in the fragmentation of the industry, in regulations, and he added that the legal system is disruptive. He feels people spend so much time staying out of legal trouble they often don't accomplish anything. His conclusion was that he was not sure tomorrow was here! He also pointed out that profit is not a dirty word, and quoted, "If your income is less than your outgo, your upkeep will be your downfall."

At the next session Charles Chief Boyd discussed the use of computers in his six-person architectural firm. They not only use the computer as a tool but have formed a separate corporation, Graphic Constructions Incorporated, to market computer technology to other architects. They focus on determining the computer equipment which will provide appropriate services to architectural firms.

Several minicomputers were available to delegates to demonstrate computer use as word processing and office accounting tools.

A final session dealt with tactics of a delivery system. Computer systems can do more than word processing; they also do drafting, perspectives, economic feasibility studies, forecasting, cost accounting, and quantity surveying.

Terry Strong discussed additional services specification writers can provide, including general office management, news clipping, financial management, employment supervision, library management, and cost accounting.

Glenn Abplanalp summed up the conference by suggesting that if members use the information from the conference to do better jobs, there will be fewer lawsuits and better quality buildings.

## attention golfers!

Start getting ready for the Annual AIA/CSI Golf Tournament this summer.

## board of directors minutes

May 6, 1980

PRESENT: Moorman, McCormick, Ashton, Seeley, Merritt, Klas, Murphy, Gira, Davidson, Koepke, Kilbourn Hill.

1 Treasurer's Report  
Don Ashton presented the February 28, 1980 and the March 31, 1980 Treasurer's reports and the quarterly report. Ashton also submitted a draft of the 1980-1981 operating budget.

2 The minutes of the April 1, 1980 Board of Directors meeting were approved as circulated.

3 Rod Moorman proposed that Ivan McCormick be reimbursed for his expenses from the NW Regional Conference in Newport, and that other chapter members who attended receive \$50 each to help cover their expenses. Discussion followed, and it was decided that Ivan McCormick should be reimbursed.

Rod Moorman moved, Bill Merritt seconded that the President Elect Ivan McCormick, be reimbursed for his expenses from the Northwest Regional Conference. Passed.

4. CSI Convention  
Moorman asked if anyone knew of other members attending the Convention in Anaheim. The names of Carl Urben, Bob Klas and John Crook were added to the list of those attending the 1980 Convention.

5. Products' Fair Jim Davidson was disappointed by the poor attendance of professionals at the Products' Fair. Discussion followed—the information will be passed on to next year's chairman, Cristal Johnson.

6. Programs  
Jim Davidson announced that the June Chapter meeting will be held at Sokol Blosser Winery in Dundee, Oregon, on June 10, 1980. Details will be in the June *Predicator*.

7 The Northwest Coordinating Council of the Northwest Region of the Construction Specifications Institute elected Don Walton as its trustee at the NW Regional Conference in Newport. Walton requested a statement from the Portland Chapter CSI which acknowledges the Coordinating Council

as an affiliated organization within the Northwest Region and the Portland Chapter. The Portland Chapter Board of Directors approved the statement. Rod Moorman and Warren Koepke signed for the Chapter.

Respectfully submitted,

Mary Alice Hutchins, Secretary  
Janet Hill, Recording Secretary

## free template

Flintkote Company representatives, Roy Watson and Bob Pierson, of the Gypsum Division, report they have a 1/4"-1" scale template for wood and metal framing components which is available FREE not for \$5.00 as reported in the May *Predicator*. If you are interested in having one of these templates, No. F-817, write Pierson or Watson at The Flintkote Company, #140, 9900 Southwest Wilshire, Portland, 97225.

(continued from page 1)

sections. What I am saying is that the CSI Format will usually work for most types of construction.

Being facetious for a moment, there is no way one can call a steel-towered transmission line a "Site Improvement"—as far as I am concerned a power transmission line comes under the heading of a necessary sight polluter.

Years ago when the Bonneville Dam project was under construction, many old timers around Oregon were making statements like, "What the heck does the government think they are doing? We don't need all that power! We won't be able to use that much power in a hundred years!" Now we have many more hydroelectric dam projects and still don't have enough power.

Well, enough of this chit chat. What I originally intended to discuss was indemnification and liability clauses wherein the architect or engineer are covered under the general contractor's policy. Well, I got news for you. I am going to write that article. It will be in a future issue of the *CSI National Newsdigest*.

I do want to take this opportunity to thank all of you for reading *BS by KS* for these many months, and I am always glad to hear from you even if you don't agree. I like to apply the philosophy of an old journeyman plumber I knew years ago, who said, "I am too stove up to run and too old to fight, so if anybody is mad at me, I forgive 'em."



## may chapter meeting minutes

recorded by Kathy Merrill

Tuesday, May 13, Rod Moorman opened the meeting by saying "thanks" to everyone for their help during his term as president. He announced that this meeting would be the final one for the 1979 Board of Directors. He then introduced the 1980 Board Members and Officers:

Professional Members ..... Jerry Eaker  
 (not present)  
 Bill Merritt  
 Industry Member ..... Dick Gira

1980 Officers:  
 President ..... Ivan McCormick  
 Vice President ..... Les Seeley  
 Secretary .. Don Eggelston (not present)  
 Treasurer ..... Stan Nelson

Rod then asked for reports from the various committee chairmen.

PREDICATOR — Chairman Dennis Obert reported that the new deadline for submitting articles to *The Predicator* was the 10th of the month. Dennis further announced that business card advertisement costs are \$90 for members and \$110 for non-members.

MEMBERSHIP — Chairman Pat Murphy reported that the Portland Chapter consists of 218 active members, and that dues will be increased by \$15 on June 1.

EDUCATION — Dick Gira reported that the Education Committee had a good year. He has been asked to head the regional Education Committee.

In other announcements, Ken Searl commended Jim Davidson for his outstanding work as program chairman. Les Seeley commented on Lee Kilbourn's many contributions to the Portland Chapter.

Margie Largent, the chapter historian, announced that the Directory will be mailed soon. Anyone with pictures or memorabilia relating to CSI, please contact Margie.

## lost book?

A Wall and Ceilings Standards book was left in the Mallory dining room after the last CSI meeting. The owner can recover it from Rod Moorman, 284-8822.

Lee Kilbourn reported that the Technical Documents Committee is Alive and Well. Lee announced that Larry Arnold will be taking over his position as Technical Documents Chairman.

During the course of the meeting, special comments were made about the following people:

Lee Kilbourn — won a large number of CSI National Specification Competition Awards

Carl Urben — received a CSI National Specification Competition Award.

Stan Nelson — was recognized for the excellent job he did as Products Fair Chairman.

A panel discussion followed the business meeting. The panel members were: Vic Shackleton, Corps of Engineers; Jim Stringham, Pacific N.W. Bell; Stan Kelley, CVS, Inc. and Harry Russell, Harry Russell Associates, Inc.



The meaning and process of Value Engineering was discussed. Emphasis was placed on saving money by isolating high cost project areas and finding creative, economical alternatives.

The Society of American Value Engineers (SAVE) Newsletter, Vol. 1, No. 1, describes value engineering as follows.

"VE is basically a cost-reduction technique, but one which differs from ordinary methods in that it concentrates on the functions provided by an item rather than the item itself. It uses a highly organized approach in selecting favorable subjects for study, defining functions and their relationships, eliminating unnecessary functions, selecting the best new approaches, developing them and presenting them to management, and finally following through to see that implementation is accomplished."


If you are interested in having your name added to the SAVE mailing list, write Portland Chapter of SAVE, 821 N.W. Flanders, Room 301, Portland, Oregon 97209.

Portland State's Department of Continuing Education will be offering a seminar on Value Engineering. Contact Dale Walhoad, at Dept. of Continuing Education for details.

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