Summary

Newsletter of the Santa Clara Valley Chapter of the Construction Specifications Institute
Serving the Valley of Santa Clara Since 1960 www.csiscv.org
April 2004

Underfloor Air Delivery

The Santa Clara Valley Chapter of The Construction Specifications Institute (CSI) would like to extend an invitation to you to join them on Thursday, April 1, 2004 for dinner and to learn how underfloor air delivery systems can reduce energy consumption, provide greater flexibility and comfort.

Underfloor air delivery (UFAD) systems are quickly becoming the system of choice for many basic building occupancies. For engineers, the growing acceptance of UFAD systems is similar to the air conditioning revolution of the 1960's, when variable air volume systems displaced the more common constant volume systems. However, with the UFAD revolution, all design and construction team members are challenged to learn how to apply the new technology to make it affordable, constructible, and operate correctly. Architects, consultants, and contractors must all modify their methods to properly design, install, and commission UFAD systems. This presentation will focus on the basics, from an explanation about the fundamental concepts behind UFAD systems, to system components and their applications. Lessons learned through the design, installation management, and commissioning of thousands of square feet of UFAD projects will be shared, with an emphasis on the role of each team member on the execution of a successful UFAD project.

Our speaker, Steven Guttmann, PE, LEED AP, is primarily responsible for the design leadership of HVAC, plumbing and fire protection systems. He has experience in the design and construction of many project types, including higher education facilities, libraries, health care, laboratories, museums and aquariums, and commercial facilities. In addition, Steve has provided mechanical systems design review and analysis for building surveys and feasibility studies, code review, and commissioning. Steve is skilled in the design of underfloor systems, having utilized the technology for San Jose State University and several public libraries. He also wrote a white paper on the application of underfloor air to a museum environment, which he presented to the state of California on behalf of the California Science Center in Los Angeles, and he published the article "Raising the Bar with Raised Floors", in Consulting-Specifying Engineer magazine.

AIA/CES Learning Units: This program meets AIA/CES criteria. Participants will receive 1 hour of LUS (learning units) which also applies to 1 HSW (Health, Safety Welfare) hour.

When:	**THURSDAY, April 1, 2004**	
Location:	Ramada Inn Silicon Valley, 1217 Wildwood Avenue, Sunnyvale (Lawrence Expressway and 101)	
Times:	Social hour:	6:15 PM
	Dinner:	7:00 PM
	Program:	8:00 PM
Menu:	Salad, fresh rolls, Pork medallions with mustard sauce, garlic mash potatoes, green beans and lemon mousse pie.	
Dinner Cost:	$25 per person	

RSVP: Please call Harry Hadges (408) 378-2762 and leave a message or email hharki@aol.com

RESERVATIONS ARE REQUIRED ***** Call prior to Noon on Tuesday, March 30, 2004****

Minutes of the Board Meeting

2003-2004 Board of Directors

Officers

President
Jim Balboni
408-328-4211
jimbalboni@msn.com

President-Elect
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408-578-5298
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Vice President
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Region Director
Gilbert Johnston
925-449-1908
gnpagil@comcast.net

CSI, Santa Clara Valley Chapter

(Draft, Board Approval Pending)

PLACE: Ramada Inn, Sunnyvale

DATE: March 04, 2004

TIME: 5:00 PM

PRESENT: Jim Balboni, Julie Brown, Hannah Moyer, Krista Nelson, David Ingram, Marvin Bamburg, Harry Hadges, Jeff Cremona, Mike O'Donnell, Gil Johnston, Gus Sharvey

1. Meeting was called to order by Jim Balboni.

2. Minutes from last meeting were accepted, with one typo corrected.

3. Budget:

a. Treasurer's Report was distributed by Marvin.

b. The Treasurer's Report was approved by the Board.

4. Regional Director's Report: No report.

5. President's Report: Jim gave Gus form for CSI-SCV Officers and Chairpersons.

6. Unfinished Business: None.

7. New Business:

a. Chapter Elections: Julie read report from Nominating Committee. Nominations and ballots will be mailed to Gus, who will open ballots, tally and mail outcome to the Institute.

b. Delegates to the Annual Meeting: Jim and Krista will be going. Gus to mail in List of Delegates.

8. Committee Reports:

a. Golf Tournament Committee: June 24, 2004 date for Tournament. Mike recommends renting half the golf course. Predicted attendance is at 15 to 24 groups. Mike presented flyer format. AIA Tournament date is 10/04/04. Motion: Authorize $1,000.00 non-refundable fee for golf course subject to approval by Executive Board. Motion passed.

b. Educational Seminar Committee: Educational Seminar is on May 22, 2004, 9:30 AM to 4:30 PM.

c. Sponsorship Task Team: Report was read. $600 rate was set for 2005, revise for succeeding year.

d. Programs: Completed through June 2004. Krista and Hannah would like input for next year's programs.

e. Certification: No report.

f. Editor/Publications: No report.

g. Website: No report.

h. Operating/House: No report.

i. Membership: Tag ordered for one new member. Current Roster distributed.

j. Awards: No report.

9. Announcements: Hannah and Krista will be absent next Board meeting.

10. Meeting was adjourned at 6:15 PM.

West Region Conference

West Region Conference is a great opportunity for board members, committee chairs and committee members to meet other people in the West Region that are doing the same board and committee work. This allows each person the ability to network and share ideas and successes. It is a great way to acquire education credits, as well at the educational programs. Plan to attend September 30 - October 1, 2004 at the Catamaran Resort Hotel, San Diego, California. The San Diego Chapter is also celebrating their 50th anniversary, so what better time to join your CSI friends in San Diego. We hope you will schedule this great event into your future plans. See you there.

WORDS YOU MAY HAVE FORGOTTEN

From Julie K. Brown

chinwag (CHIN-wag); noun.
1. Chat, gossip.

jawbone (JAW-bohn); noun.
1. A bone of either jaw, especially the lower jaw: mandible.
2. Credit; promise.

zoophyte (ZO-uh-fyt); noun.
1. An animal (such as sponge, coral, sea anemone, etc.) resembling a plant.

benighted (bi-NYT-id); adjective.
1. Intellectually, morally, or socially ignorant; unenlightened.
2. Overtaken by night or darkness.

blunderbuss (BLUN-duhr-bus); noun.
1. A short, wide-mouthed gun used to scatter shots at close range.
2. A clumsy, blundering person.

2003-2004 Committee Chairs

Golf Tournament
Jeff Cremona
408-328-4215
jeff.cremona@otis.com

Educational Seminar
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Programs
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Operating/House
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Raffle/Fund Raising
Ron Adams
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Tracks Ahead for 2005

Last month I wrote about the CSI Train and getting on board. Since then I have run across even more images of the railroad. I have been fascinated by trains since I was a little girl. In fact, I still have the American Flyer set I used to assemble with my dad. It has sections of track that resembled the real rails linking towns and industries across the country. In the model train set I also had the usual compliment of cars, coal tender and a red caboose all pulled by the monstrous steam locomotive. There was always a certain smell to the engine when the transformer sent power through the tracks that moved the train forward. It used to scare me. Partially I think, because as a little girl, it was outside my level of understanding and still I could "control" it.

Each of the components of the model railroad could be assembled in various plans and configurations. Sometimes I would use the entire ping- pong table and nearly send the train off the edge because I laid the track too close to the end of the table. Mostly I liked to use the switches and crossings that allowed inside loops and a figure eight pattern.

Why am I rambling on about childhood fascinations? Well, it occurred to me that CSI is similar to the model train set of my youth. I am fascinated by the intricacies and endless combinations of the parts of the assembly all contributing to make it run. I'd like to lay out a plan for us to follow in the Region much like the piecing together of tracks utilizing the unique features of each Chapter, committee and member.

Our West Region CSI Train can only be successful if members get excited about a project and carry it to fruition. In the next couple of months, we will be forming committees and task teams to lay the track for the West Region in 2005. There may be opportunities to share information on working with the State of California or uniting in fundraising between Chapters or even a media library. The possibilities are endless. Your ideas and willingness to collaborate will make this a fun and prosperous ride. Let me know how you'd like to get on board the "West Region Express." The train will be leaving the station soon!

By Paulette Salisbury, CSI CDT
West Region Vice President
pksalisbury@sbcglobal.net

RESTRAINED VS. UNRESTRAINED

To most structural engineers, code officials and architects, the terms "Restrained" and "Unrestrained" are typically interpreted as referring to the connection of structural elements at ambient temperatures. However, in the fire protection industry, restrained and unrestrained are addressed at elevated temperatures, introducing the concept of "thermal restraint."

The issue of thermal restraint causes some controversy in determining whether an assembly should be considered restrained or unrestrained. The classification of an assembly in one of these categories has a bearing on the thickness of spray-applied fire resistive material (SFRM) needed to satisfy code requirements. Higher SFRM thicknesses are typically required for unrestrained ratings.

In order to clarify whether an assembly should be considered restrained or unrestrained, one may refer to the actual "Fire Test Standards of Building Construction and Materials". According to Appendix X3 of ASTM Standard E119 and Appendix C of UL (Underwriters Laboratories) Standard 263: "Floor and roof assemblies and individual beams in buildings shall be considered restrained when the surrounding or supporting structure is capable of resisting substantial thermal expansion throughout the range of anticipated elevated temperatures. Construction not complying with this definition is assumed to be free to rotate and expand and shall therefore be considered as unrestrained."

To assist in determining this condition, ASTM Standard E119 and UL 263 also list general construction classifications and whether they denote a restrained or unrestrained condition. This table of classifications, which at

Restrained *continued on Page 5*

Restrained *cont'd from Page 4*

one time appeared in the UL Fire Resistance Directory. According to UL, this information is intended as a guide for the determination of restrained conditions and is not meant as a specification. Engineering judgment must therefore be exercised to determine what constitutes restraint to "substantial thermal expansion." Furthermore, page 6 of the 1999 UL Directory states the following: "Restrained conditions for the fire test assemblies are provided by constructing floor, beam and roof test assemblies within nominal 14 ft x 17 ft frames of composite steel/concrete cross sections having an approximate stiffness (EI/L) of 850,000 kip-in and 700,000 kip-in along the 14 ft and 17 ft sides, respectively." This description provides structural engineers with the stiffness of UL's test frame so that they have a basis of comparison when determining conditions of restraint for beams on a project.

Due to the level of analysis and interpretation required, there is often confusion as to whether a building's construction shall be specified as restrained or unrestrained. Ultimately, the determination of the conditions of restraint remain in the hands of the structural engineer and the authority having jurisdiction. The Uniform Building Code (ICBO) criteria requires that all construction design be considered unrestrained unless proven otherwise.

After determining restrained vs. unrestrained conditions, the appropriate restrained or unrestrained fire resistance rating must be utilized. Restrained and unrestrained fire ratings specified for both beams/joists and assemblies are used to determine the required fire protection material thicknesses which are listed in the UL Directory. Due to the difference in thickness requirements between restrained and unrestrained hourly ratings, this determination can often have a significant effect on both fireproofing requirements and life safety integrity of the building.

Gary C. Poindexter CSI, CDT
Isolatek International
CAFCO Fireprotecton Product

Planning Calendar 2004

Chapter Meetings:
April 1 - Under-floor Air Systems
May 6 - Wood Preservatives
June 3 - Installation of Officers

Educational Seminar:
May 22 - Seminar on Specification Writing Principles

Golf Tournament:
June 24 - First Annual SCV Golf Tournament

Welcome New Members

Matthew Remington
912 Tiffin Drive
Clayton, CA 94517
(925) 209-1462

Ronald Ronconi
CAS Architects, Inc.
1023 N. Shoreline Blvd.
Mountain View, CA 94043
(650) 967-6600

Robert Worthington
Weyerhaeuser Co.
1925 Enterprise Blvd.
West Sacramento, CA 95691
(916) 826-1455

Visit our website at
www.csiscv.org or

The West Region's website at
www.westregioncsi.org

Effective Architetural Sales Calls
Part 2

This is second of 3 parts. This article originally appeared in the Minneapolis-St. Paul Chapter CSI newsletter "specifics" column entitled "A View from the Back of the Bus."

Another critical element for effective architectural sales calls is the ability to listen. Practically every time a rep calls on me, the first words are about company history, the president's ancestors, and how many products have been installed in Outer Slobovia last week. Next, we hear how many years he or she has been in the business, how big their territory is, on and on. Next comes a guided tour through the product binder, page by page by never ending page. In all this time, usually 30 minutes, never once has the rep asked about projects, how products are selected, are the office master specifications up-to-date, and the like. The best advice I can offer for effective architectural sales calls is to SHUT-UP AND LISTEN!!!!. You will be amazed by the knowledge and insights you can discover about what the architect knows and wants to know about your product. There is a definite reason why the Creator gifted us with 2 ears and one mouth.

You will notice that discussing products is not included, especially features and benefits. Use and application, design solutions, enforceable specifications, industry procedures and standards are far more effective that talking about products, and eventually will enable you to discuss products without forcing the issue.

At the end of the day consider this. I once called upon an architect that had forgotten my appointment and said he could only give me 5 minutes. After 45 minutes, I commented that he was rather busy and asked what it would take to get in his specification. He expressed great admiration for my firm, my products and indicated no problem getting specified. Here's the rub, never once, in that 45 minutes, did I mentioned my firm or my products. I asked open-ended questions, provided broad-based industry information, talked about key competitive issues, and discussed effective specifications, and how to minimize substitutions. I never mentioned I was an architect and specifier with too many years of experience.

Effective architectural sales calls are very simple... be quiet, listen, and provide industry standard knowledge and resources.

(To be continued next month.)

Michael is a specifier and product rep who designs, produces, and presents continuing education programs, writes guide specifications, and provides sales training for the construction product industry. He is active nationally in AIA, CSI, DHI, and SCIP. Michael is principal of MCA Specifications, Construction Product Marketing Group of San Francisco and recently relocated to the Bay Area from Minneapolis, MN. He can be reached at 415-239-6566 or at michael@mcaspecs.com.

ASHRAE, AIA Developing Advanced Energy Efficiency Guidelines

Anaheim, Calif. - Recognizing that residential and commercial communities are a major focal point for energy consumption with buildings accounting for 35 percent of total energy consumption in the United States, ASHRAE and AIA are working together to develop advanced energy efficiency guidelines.

The American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) and the American Institute of Architects signed a memorandum of understanding at ASHRAE's 2004 Winter Meeting held here Jan. 24-27. The agreement states that the two organizations will work jointly in the research and development of next generation energy efficiency guidelines.

The two groups already are developing Advanced Energy Design Guides, which will help designers achieve 30 percent energy savings over ANSI/ASHRAE/IESNA Standard 90.1, Energy Standard for Buildings Except Low-Rise Residential Buildings. The first of the guides, which would apply to office buildings up to 20,000 square feet, is expected to be published later this year. Visit http://www.ashrae.org.

Code Change Eliminates Out-Dated Wire Glass Exemption

The International Building Code is taking another step to improve safety in schools and other public and private buildings. At the April, 2000 IBC code hearings in Alabama, the Structural Committee approved O'Keeffe's Inc. code change proposal to remove the long-standing safety glazing exemption for wired glass in fire window and wall assemblies. As a result, wired glass will only be allowed in "view panels" of fire doors. The code change is subject to final action by the three-model code bodies and will become effective in the 2003 IBC.

The Consumer Product Safety Commission originally established the exemption during the late 70's when it enacted the federal safety-glazing standard, 16 CFR 1201. Because wired glass was the only fire-rated product available at the time, the CPSC temporarily exempted wired glass in fire assemblies from meeting the new minimum impact test standard of 150-ft. lbs. The CPSC intended the exemption to end after 2-1/2 years, figuring that was enough time for the industry to develop a product which could comply with both fire and impact safety requirements. However, the wired glass industry filed a lawsuit challenging the termination date, and the CPSC ended up extending the exemption indefinitely. As a result, wired glass in fire assemblies has been subject to a lower 100-ft. lb. impact standard in ANSI Z97.1, which the CPSC rejected as inadequate to protect anyone other than children under 5 years old.

Since the 70's, several new clear fire-rated glazing alternatives have been introduced which meet the highest CPSC impact requirements. All non-wired fire-rated glazing materials must comply with the CPSC standard, and wired glass is the only product subject to a lower standard. Wired glass is only half as strong as ordinary annealed glass, and when it breaks the exposed wires act like a spider web to trap the victim and increase injuries when he/she attempts to withdraw from the opening. The use of wired glass in fire assemblies in hazardous locations has proven to be dangerous, and there is no reason to continue the exemption for wired glass when safer alternatives are available.

The code committee considered evidence of serious injuries to schoolchildren caused by accidental impact with wired glass, and concluded the exemption is no longer needed since other alternatives are now available which protect children and adults against injury on full body impact. In its deliberations, the committee expressed specific concern about the use of large panels of wired glass in schools, and concluded the exemption is not justified for fire windows and wall assemblies. The committee noted there is no reason to treat wired glass differently than other products, but felt it did not pose as great a risk when used in small vision panels of fire doors limited to 100 sq. inches, and voted to eliminate the exemption for fire assemblies other than view panels in fire doors.

Wired glass has enjoyed a significant advantage over fire-rated products as a result of an exemption created over 25 years ago, when it was the only fire-rated glazing available. The code change approved by the IBC code committee reduces the risk of injury for the benefit of public safety, and puts wired glass on a level playing field with other fire-rated products. A code change ending the exemption is long overdue, and both the public and the glazing industry have good reason to welcome the IBC code committees recent action.

Written by Kate Steel, SAFTI a Division of O'Keeffe's Inc.

New Web-Based LEED Project Management Tool Under Development

The USGBC reports that they are developing a Web-based LEED project management

Tool *continued on Page 8*

Upcoming Conventions

Mar 04, 2004 - Mar 07, 2004
INTERIORS '04: The ASID Conference on Design Savannah, Ga. http://www.asid.org

Mar 10, 2004 - Mar 11, 2004
5th Annual Recycled Product Trade Show Sacramento, Calif. http://www.ciwmb.ca.gov BuyRecycled/Events/TradeShow

Mar 14, 2004 - Mar 16, 2004

The National Green Building Conference, NAHB, Austin, Texas http://www.nahb.org

April 20-24, 2004

The 48th Annual CSI Show and Convention, CSI, Chicago, IL www.csinet.org

Tool *cont'd from Page 7*

tool that will integrate the current project registration, credit interpretation and certification processes for ease of use and access. This new tool will replace the current Microsoft Excel-based Letter Templates and enable project team members to prepare, update and submit LEED project information and documentation online. The Web-based platform will eliminate current sharing difficulties by allowing project members to access the workspace simultaneously and will also resolve Mac compatibility issues. Project documentation and certification will become a paperless process under the new system.

The USGBC's Web-based project management tool will be made available to LEED-NC project teams by mid-2004 following extensive testing with select users. Use of the tool will become a required component of the LEED-NC certification process for all projects registering after its release. The Web-based tool will also be adopted for certification of projects registering under the balloted public versions of LEED-EB and LEED-CI due for release later this year. This information was provided via the USGBC newsletter. Visit http://www.usgbc.org.

Trucking Towards Bluer Skies

San Rafael, Calif. — That sixteen wheeler huffing black smoke next to you on the freeway may be thing of a past, if Lance McCardle and Blue Sky Clean Air Shipping Solutions have their way. Blue Sky is California's first shipping company to use biodiesel B100 as its primary fuel source.

That's right, commercial shipping fueled by vegetable and soybean oil. So if you see McCardle's 22-foot flat bed truck—the one with the earth flag on top—don't be afraid to leave the car windows open: "The exhaust smells similar to french fries cooking," McCardle says.

But biodiesel-based trucking is more than just a pleasant smell; it is a serious clean-air alternative to traditional petroleum-based shipping, reducing not only the impact on the environment, but America's dependence on foreign oil.

"One hundred percent of the biodiesel sold in the U.S. is produced in the U.S." says McCardle. He fills up his truck at a variety of gas stations in the greater Bay Area which sell biodiesel fuel processed from 100% recycled restaurant grease or soybean oil. For more information, visit http://www.blueskyshipping.com.

SPECIFICATIONS WRITING PRINCIPLES

Sponsored by
The Construction Specifications Institute

SATURDAY, MAY 22, 2004 - 9:30 AM to 4:30 PM

at the Ramada Inn Silicon Valley, 1217 Wildwood Avenue, Sunnyvale (Lawrence Expressway and 101), (408) 245-5330

This course provides the essentials for effective specification writing. It includes methods of specifying, sentence structure, and writing techniques from the ground up. An ideal course for those who wish to understand more about using or writing specifications.

- Document organization; including Section Format, Page Format, project phases, and spec formats.
- Importance of consistency, and what that means.
- Boiler plates, AIA A201, Supplements and Division One.
- Document preparation for clear, correct, complete and concise specs.
- Specification language tips and capitalization.
- Master Guide specs, and editing Master Guide sections.
- The make-up of a project manual beyond basics, including coordination of consultants.
- Edit a specification section and discuss exercise afterwards.

INSTRUCTOR:

John A. Raeber, FAIA, FCSI, CCS is an independent specifier who has been writing specifications for 29 years. Mr. Raeber is currently an Adjunct Professor at the California College of Arts & Crafts. He has served on the AIA Master Specification Review Committee, the CSI MasterFormat Subcommittee, and has developed office masters for numerous prominent local architects and a corporate entity.

NAME_____

CSI Member #_____ (required)

FIRM_____

_____

ADDRESS_____

_____

Phone_____

Fax_____

E-mail address_____

Amount enclosed $_____.

Any questions call or e-mail Hannah Moyer (650) 298-8150; hmoyer@watrydesign.com

FEES:

CSI members:	$125.00 prior to April 22, 2004; $145.00 after April 23, 2004.
Non-members:	$150.00 prior to April 22, 2004; $175.00 after April 23, 2004.

Registration will start at 9:00 AM - Muffins, coffee, lunch, beverage and handouts included in fee. Make your reservations early to assure you receive the hand-outs and lunch. There are no guarantees that food or hand-outs will be available for people that register at the door.

This program meets AIA/CES criteria. Participants will receive 6 hours of LUS, which also applies to 6 HSW (Health, Safety, Welfare) hours.

Make checks payable to Santa Clara Valley CSI Chapter. Please return a copy of this form and mail with payment to SCV CSI, Hannah Moyer, c/o Watry Design Inc., 815 Hamilton Street, Redwood City, CA 94063