



Newsletter of the Santa Clara Valley Chapter of the Construction Specifications Institute  
Serving the Valley of Santa Clara Since 1960 [www.csiscv.org](http://www.csiscv.org)  
June 2005

# Summary

## Installation and Awards Banquet

Come and celebrate the successes of the past year and kick off the new CSI year at a New Orleans jazz themed evening.

- When:** THURSDAY, June 2, 2005
- Location:** Ramada Inn Silicon Valley, 1217 Wildwood Ave., Sunnyvale (Lawrence Expressway & 101)
- Social hour:** 6:00 PM Cocktails and Jazz music courtesy of the South Bay Plastering Contractors Association. Appetizers courtesy of Grace Construction
- Dinner:** 7:00 PM
- Menu:** Salad & Fresh Rolls, Chicken, Pork & Smoked Sausage Jambalaya, Fruit Tart & Coffee, Wine courtesy of CAS Architects
- Dinner Cost:** \$25 per person. Guests are welcome.



**Program:** 8:00 PM Celebration of Members, Awards and Installation

RSVP: Harry Hedges, CSI, CCS (408) 378-2762 or email [hharki@aol.com](mailto:hharki@aol.com).

RESERVATIONS ARE REQUIRED \*\*\*\*\*Call prior to Noon on Tuesday, May 31st, 2005\*\*\*\*\*

### Benefits of Membership in CSI

- CEU's (LU's) earned by attending the monthly meetings and seminars
- Low cost insurance
- *Construction Specifier* magazine
- Knowledge and learning
- Networking with some of the most successful professionals in the industry

## President's Message *by Dave Ingram*

### 2004-2005 Board of Directors

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Value, Membership responsibility, Opportunities, Fun. These are topics I addressed in my first President's address. This year's Board and committees have made great strides in addressing these issues and moving forward building on the chapter's solid foundation built by past boards and committees.

The past year was an overall stellar success. All of the programs were first rate; each providing timely, interesting and useful information. The chapter is still solvent though a major income stream is still to be developed.

I am somewhat still surprised by the numbers of our industry member's attendance at the chapter meetings. The average membership meeting attendance has been 95% professional and 5% industry. The perspective and expert opinions on construction issues of the industry membership is sorely missed at the dinner table discussions. Hopefully we will begin to see an increase of attendance and participation by our industry members. I ask all professional members to invite our industry members to a meeting when they are in your office. Their absence is missed. The industry folk as a group always have a solution for a construction problem and a great joke at the ready. You are missed.

The Advertisement and Sponsorship Opportunities marketing

program has begun. The following companies are the first (paid) to take advantage of it. The very first is South Bay Plastering Contractors Association, Mike O'Donnell contact. Butler Johnson Corporation, Bruce Lombard contact and Drywall Information Trust Fund, Jason Fell contact. There are several more who have verbally promised to join in. The implementation of the program is set to begin July, 2005. The roster is scheduled to print in August, so those of you who want to place an ad give me (Dave Ingram: 415-672-4342 or [daveingram@sbcglobal.net](mailto:daveingram@sbcglobal.net)) a call or email to reserve a space.

It has been a privilege and honor to serve as your chapter President this past year. The support and enthusiasm of the board and committee chairs and members reaffirmed what a great chapter the Santa Clara Valley chapter truly is. I look forward to the coming year as chapter President, with happy expectations of continued success through the leadership of the incoming board, committee chairs and the renewed and increased participation of you. Yes each of you/us, the members of the Santa Clara Valley Chapter.



## SUMMARY

# MEMBERSHIP MATTERS

## The Whole Enchilada

*By Bryan J. Varner, CSI, CCCA*

Why do we participate in CSI? What makes our involvement worth continuing? Is the value we perceive or the enjoyment we receive just a function of the technical knowledge we gain? Or is there more?

CSI is notably different from other technical "single lens" industry associations. Associations are typically formed to create a one stop-shopping place for members of a profession or trade to acquire knowledge and tools while honing skills useful in that profession or trade. Such trade groups of similarly situated individuals can become effective advocates for their members in various communities, and commercial and legislative arenas. Membership in such associations confirms the members' commitment to the advancement of their profession, trade, or industry.

While typical trade or professional associations may be comfortable and valuable places for their members to learn and grow, such groups often suffer from too much homogenization, resulting in regurgitation of ideas and biases, agendas and movements, and learning experiences. As for myself, hanging around a

**Matters** *cont'd on Page 5*

## 2004-2005 Committee Chairs

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Project Executive  
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## Minutes of the Board Meeting

CSI, Santa Clara Valley Chapter  
(Draft, Board Approval Pending)

PLACE: Ramada Inn, Sunnyvale

DATE: May 05, 2005

TIME: 5:00 PM

PRESENT: Hannah Moyer,  
Krista Nelson, Julie Brown,  
Marvin Bamburg, Jeff Cremona,  
Jim Balboni, Ron Ronconi, Gus  
Sharvey

**1. Meeting was called to order by President Dave Ingram.**

**2. Minutes from last meeting were accepted,** with the comment by Hannah Moyer that "Master Spec" should be changed to "Master Format 2004" under Committee Reports.

**3. Treasurer's Report**

a. Treasurer's Report was provided by Marvin Bamburg. Newsletter and Sponsorship financial aspects were discussed. Dave Ingram will trace check to the SF Foundation in memory of Gus Tsopanakis.

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

**4. Regional Director's Report:**  
No report.

**5. President's Report:** Everything is good in the Chapter.

**6. Unfinished Business:**

a. Strategic Planning date: May 19, 2005, 4-7 PM, at Otis Elevator Co., 470 Lakeside Drive, Suite "D", Sunnyvale, CA 94085.

**7. New Business:** Updated Board Roster was distributed to the Board..

**8. Committee Reports:**

a. Golf Tournament Committee: Jeff Cremona reported that not enough parties have signed up to cover the golf course fee, and recommended that the event be cancelled. Jim Balboni suggested that the event be rescheduled for the fall rather than returning the checks. He also pointed out the need for an additional income stream. Dave noted the difficulty in attracting applicants, and thanked Jeff Cremona for his efforts.

b. Educational Seminar Com-

mittee: Hannah Moyer reported. We should facilitate that attendants get home early.

c. Marketing Committee: Dave Ingram is working on sponsorship campaign and getting the firm's logos to be included in our messages.

d. Programs: Krista stated that only Board will meet in July on regular meeting date, although the program and chapter meeting will be a later Thursday in the month and will be a tour of Logitech Ice. This will be a joint meeting with AIA and will serve only appetizers – no dinner. be served. Hannah Moyer has programs lined up through September 2005.

e. Certification: No report.

f. Publications: Julie Brown confirmed that the Newsletter went out on time.

g. Website: Bob Anderson is revamping the website.

h. Operating/House: No report.

**Board cont'd on Page 7**



- Product Specifications
- Job Site Inspections
- Presentations



**JASON FELL**  
Technical Director

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"For The Advancement of Drywall In California"

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**Matters** *continued from Page 3*

group of the same people gets boring after awhile. I like hamburgers a lot, but I enjoy trying different food even more.

CSI isn't like a single slice of cheddar cheese or the specialty cheese section at your grocery store. CSI is like the whole enchilada, which is to say that CSI is the place where the entire construction industry comes to graze and feast together on a rich smorgasbord of delightful educational opportunities. Why do so many construction professionals find CSI an appetizing and satisfying place to indulge themselves?

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**CSI is the place where the entire construction industry comes to graze and feast together on a rich smorgasbord of delightful educational opportunities.**

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As I became more involved in CSI outside my home chapter, by visiting other chapters and attending region and Institute events, I kept meeting the same kind of people...friendly, professional, fun loving folks. Over time I became convinced that CSI members share three common denominators that really bind us. We want to learn and grow as professionals and we want to help improve our industry, all while having fun. Think about

it. Without all the interesting and different people you enjoy being around, would you be so involved in CSI? I certainly wouldn't.

So, membership matters because without members CSI would just be a web site favorite or catalog resource we use to find information and answers. The dynamic, stimulating, and exciting characteristics of CSI really all revolve around the members and people we draw in. In upcoming issues of Membership Matters, I will explore and highlight both the vital importance of our membership as well as the ways our leaders and members can help in growing CSI. For anyone who likes the whole enchilada, let's make it even more enjoyable by inviting more dedicated, interesting, and fun people to the table.

### **Mike O'Donnell UPDATE**

Our beloved member Mike O'Donnell's surgery went well. He is now going through many weeks of radiation, and is holding his own. He is not supposed to do much speaking, but he would enjoy hearing from you. At this point it would be easiest if you would send cards to his work address, and the family will deliver them to him. Our hearts go out to Mike and his family during this difficult time.

— Julie Brown

## **Planning Calendar 2005**

### **Chapter Meetings**

**June 2** – Awards and Installation of Officers Banquet

**July 7** – Board Meeting

**July 21** – DATE CHANGE FOR MEETING – Tour Logitech's Ice Rink - AIA Joint meeting

**August 4** – Coming Storm in Construction

**September 1** – tbd

**October 6** – Coatings for Cool Roofs

**November 3** – MP Manual by Master Painters and Decorators Association

**December 1** – Holiday Celebration

In the coming months at the chapter meetings South Bay Plaster Contractors Association will be adding San Jose Grand Prix tickets to the raffle. Come one and come all to win these tickets for the first race through the streets of San Jose.

### **Other Important Dates**

#### **West Region Conferences**

2005 Sacramento, Sept. 28, to October 2

### **Planning Ahead**

#### **West Region Conferences**

2006 Reno  
2007 Los Angeles

## West Region Report



### Bright Futures

*By Paulette Salisbury, FCSI, CDT,  
West Region President, Institute  
Director Industry*

One of the most inspiring events I have attended recently was the Construction Sciences Forum presented at Cal Poly by the young architectural and construction management students. This annual event attracted not only students but many local design professionals. And the best part is the energy and dedication of the college students. They are well on their way to being a vital part of our construction industry's bright future.

It was gratifying to see the wide support of companies and vendors from across the Region. Many thanks to the folks in the Producers Council for helping to underwrite another successful trade show for the CSI Student Club.

I was also pleased to be able to present a check to Sean McK-

eever, president of the club for their expenses to the Convention in Chicago. Four of the young people from Cal Poly will travel to the CSI Show and Convention and participate in the Student Design Competition. The donation from the San Francisco CSI Foundation will help them experience this valuable event. Donations to a special fund in honor of our departed friend, Gus Tsopanakis, made this presentation possible.

I am again inspired by the enthusiasm many of our members display in their willingness to take on projects. Hats off to Bryan Varner, Dina Moyer, Matt Crawford, Matthew Boomhower, Duane Johnson, Karen Collins, Dane Dodd-Hansen and Jan

Piccola who have already volunteered for Region committees or task teams. Their spirit and can-do attitude really get me excited to make plans for the coming year in CSI. They are also part of CSI's bright future.

As chapter officers set budgets for next year, I hope they will strongly consider setting aside money for travel. The next two West Region Conferences will be events for everyone to attend. Special leadership development sessions will be conducted with emphasis on building skills that transfer to the workplace as well as CSI. Honing your skills as a team leader and team player will enhance your business career as well as making you more valuable to the chapter. Watch for registration information on the Sacramento hosted conference this fall and start planning to go to Reno in the fall of 2006.

Our Region Bylaws have been submitted to the Institute Secretary for approval. Soon we hope to be diving into the revision of the region's operating guidelines. Your expertise in shaping the future of the Region would be of great help to this task team. Please let me know if you might be willing to serve.

I'll be closing now to pack for the Convention. Have a terrific spring and a very bright future.

### Welcome to Our New Members

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## Too Bad You Missed It....

One of the most important things you can do if there has been a flood is to remove the excess water. Now that seems rather obvious, but did you think about lowering the temperature as well? If the temperature can be lowered, below 60 degrees Fahrenheit if possible, it will retard mold growth allowing additional time for clean up.

At our May chapter meeting, Stephen Davis of LaCroix Davis, LLC in Lafayette discussed the flood response at the United States Court of Appeals for the Ninth Circuit. This is a beautiful historical structure in San Francisco designed in the late 1890's by James Knox Taylor. Many of the artisans that worked on the project later went on to work on Hearst Castle. They worked with a variety of materials including marbles, mahoganies, redwood, bronze, colored Venetian glass and porcelain tile. In December

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**Board** *continued from Page 4*

i. Membership: Ron Ronconi reported that we had two new members.

j. Awards: No report.

**9. Announcements:** Gus Sharvey has new E-Mail address: [GusSharvey@sbcGlobal.net](mailto:GusSharvey@sbcGlobal.net).

**10. Meeting was adjourned 6:02 PM.**

2003, this was put in jeopardy when 6,000-9,000 gallons of hot water was released over the course of two hours due to a failure in the building's recirculation heating system. Part of the first floor and the basement were flooded including the electrical room with high-voltage electrical transformers and the computer room with the computer support facilities for the 9th Circuit Court.

The facilities staff upon discovery of the flood immediately began removing the excess water and ran area fans. Since this was a white water condition, this was an appropriate response. The Standard and Reference Guide for Professional Water Damage Restoration (IICRC S500) prepared by the Institute of Inspection Cleaning and Restoration (IICRC) outlines flood response principles including those for grey or black water. They also removed any wet porous materials such as duct insulation and gypsum board.

Steve's office wasn't brought in until about one week later. They continued to work with the facilities staff to develop a plan for remediation. This included environmental testing for mold growth. The testing includes air samples of the exterior air. Analysis is completed by looking at the interior levels versus the levels surrounding the building. The interior levels were lower, most of the time significantly so. The two tests that were closer to the exterior levels were in a crawl space

that contained exterior air and an area that had visible mold growth which turned out to be related to leaks in a rain water leader.

What we can learn from this is that it's important to respond to water intrusion quickly using developed standards, and working together in a multidisciplinary fashion. If there are signs of visible mold growth, hysteria is not required. There are standards on how to remediate it depending on the level of contamination. Steve provided an easy to follow, double-side handout of a chart based upon the NYC Mold Remediation Guidelines.

## Photographer Needed!

The chapter is looking for a member that likes to take photographs. We need a member to take digital photos during the chapter meetings and chapter events.

SCV chapter would like to include the photographs in the monthly newsletters, as well as keep track of our history in the Chapter's Photo Album. Anyone interested? If so, please contact Dave Ingram or Julie Brown.

## CSI Convention in Chicago

*By Julie Brown, CSI, CCS, SCIP*

I found this year's trip to Chicago quite nice. I had gone in 2003, so this time it felt a little like I knew my way around the city. Sadly I did not get to see that much of the city, although the programs provided at the convention were very good. The main theme of MasterFormat 2004 was well expressed and marketed. The numerous programs to educate us about the new 49 Divisions were informative. You will be seeing specification sections with titles that will be based on work results now (ie. Carpeting), rather than products (ie. Carpet). Not to mention a six digit Section number; all colated under 49 Divisions.

The "New Developments in Fenestration Design - Theory & Practice was very interesting program, because widows, window walls, and curtain walls that use the rain screen principles can minimize water leakage and ensure specified performance. The rain screen principle works for punched openings, ribbons, and window wall whether using single unit, multiple units, vertical stacked units, horizontal rows, 3 or 4 way units. The goal is to eliminate pressure differential and the essential elements are; exterior rain screen, interior barrier that prevents passage of air and vapor and protected from water, and confined air space open to outdoors and drained to

outside. Shop drawings are critical for the windows and should show relationships between window(s) and wall(s) including; attachments, flashing, and interface with vapor and air seal.

Another program titled "How the Courts Interpret Specifications" was intriguing when I learned that contract law has been based on a 1918 case called United States v. Spearin, which produced what we know as the Spearin Doctrine. There are 6 rules of interpretation related to contract documents;

1. The whole agreement.
2. Specific information controls over general information.
3. Trade custom, practice and usage: If the above items are not clear then the courts will look at the trade practices.
4. Practical interpretation.
5. Construction against the drafter; If ambiguities can not be resolved by the above rules then the preparer is left responsible.
6. The written portion controls over the printed portion. (Hand written over typed)

It is not that the other programs that I took were not interesting, because vapor and air barriers are very interesting. The problem is space in this newsletter and others that attended the convention have their experiences to share too. We were well represented at this year's convention with five members attending. Hopefully all of them will find the time to write their experiences. Hope to

see all of you in Las Vegas, Nevada next year for the convention.

## Grand Prix Tickets

South Bay Plastering Contractors Association will be making available for our raffle some very special tickets for the San Jose Grand Prix coming the end of July.

During our chapter meeting in June we will raffle Fri./Sat./Sun. General Admission Tickets.

During our chapter meeting in July we will raffle Fri./Sat./Sun. Reserved Seat Tickets for two.

## CSI National Convention & Construction Debris

*By Hannah Moyer, CSI*

Attending my first CSI National Convention, I was happily greeted by the warm, balmy Chicago weather. My husband and I arrived at our hotel room in time to take a long afternoon walk and in the evening, sample some of Chicago's famous deep dish pizza. Mmmm, yummy. We even had a chance to tour the new 50th Anniversary McDonalds Restaurant, located in the state where the first franchise got its start.

**Moyer cont'd on Page 9**

**Moyer** *continued from Page 8*

Once back at the hotel room, it was time to get down to business. “Which seminars should I attend?” Mapping out my following day.....before me is a plethora of titles, all of them intriguing, interesting and applicable to today’s current issues. Titles like “MasterFormat Forum for the Architect/Engineer,” “Dispute Avoidance Practices,” “Firestopping,” “Specifications and Legal Issues,” “Coordinating Specifications with Details and Materials,” and so on. All sounded appealing and, having to make choices, I felt bad that I couldn’t attend them all.

One title I had picked was purely because it was a subject I really knew nothing about, Construction Waste Reduction. Now truthfully, how many of you deal with this? How many of you care? One indicator was the number of attendees who showed up for this seminar, about 30 in all. For other seminars, especially for Construction Failures, there were over 200 attendees, standing room only. Well, Construction Waste Reduction turned out to be a very fascinating presentation and one of the best I heard during my visit to the convention. Consigli, a construction firm located in Massachusetts, participated in a volunteer pilot program to see what would happen when a general contractor actively reduces its construction waste. Vance Freymann, director of project development for Consigli, gave the presentation.

A few U.S. EPA figures Mr. Freymann shared with us: in commercial construction, a typical new building generates 3.9 pounds of waste per square foot (for a 50,000 sq. ft. mid-size suburban office building, almost 100 tons of waste); demolition of a typical existing building will generate 155 pounds of waste per square foot (for a 50,000 sq. ft. mid-size suburban office building, almost 4,000 tons). For the state of Massachusetts, construction and demolition accounts for roughly 25% of all Massachusetts landfill deposits, which is average for most states. By the end of this year the state of Massachusetts will no longer allow commercial construction debris (concrete, brick, asphalt, metal, wood and cardboard) in their landfills.

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**Construction Waste Reduction turned out to be a very fascinating presentation and one of the best I heard during my visit to the convention.**

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Consigli entered a volunteer pilot program, working with the Massachusetts’ Department of Environmental Protection, in 2001. For the five DEP case study projects, they were able to divert 91.4%, or 3,365 tons, of

waste from the landfills. Consigli was able to show recycling is cost effective, that companies can save money by separating construction debris efficiently on-site and reduce their disposal fees. A nice fringe benefit was the employee enthusiasm, once the employees understood the program. Eventually there was even some competition between the superintendents on who was going to recycle/reuse the most. Nothing like a little healthy competition in the name of saving the environment.

There was a great deal more Mr. Freymann covered, but I would not be able to do him justice in my article here. If you want to learn more, I suggest you visit Consigli’s web site, [www.consigli.com](http://www.consigli.com), which also has a link to Massachusetts’ Department of Environmental Protection. It is expected other New England states will be following Massachusetts’ footsteps, and who knows, maybe California will someday, too.

**Note from Managing Editor**

To ensure that your newsletter is delivered, please verify your profile with [www.csinet.org](http://www.csinet.org) to ensure your e-mail and physical addresses are correct. Please notify Julie Brown of any changes, as soon as possible, to ensure uninterrupted delivery of your newsletter and other SCVCSI mailings.

## BuchNotes

By Ed Buch, CSI, CCS, AIA

*The Fireproof Building, Technology and Public Safety* in the 19th Century American City, by Sara E. Wermiel, (Johns Hopkins University Press, Baltimore & London, 2000, 301 pages including some excellent period drawings), is a detailed history of the evolution in structural building materials from the late 18th century to the beginning of the 20th century. During this period non-combustible structural and floor framing materials gradually replaced timber construction.

The book also chronicles the development of municipal building codes. At first these codes addressed only the “fireproofing” of structural members in buildings. In the early years of the 20th century, following the great loss of life in several notorious fires, such as the 1911 Triangle Shirtwaist Co. fire in New York City, the codes began to address the need for emergency exits in buildings. The requirements developed during this period, (many of them by the newly established National Fire Protection Association), are the foundation on which the building codes we use today are based.

Another important theme in the book, although it wasn't emphasized, was the significant contribution to the development of structural building materials carried out by the companies involved in their manufacture. Many of the advances in struc-

tural building materials resulted from research and development undertaken in the iron industry, by the companies making structural clay tile, and by the cement industry. Significant research in these areas funded by government agencies and at universities wouldn't come until later in the 20th century.

The need to develop methods of fireproof construction was a fundamental factor in the development of American commercial buildings. In spite of the rare, but spectacular, fires that occur today, in the 19th century fires were all too frequent resulting in significant losses of property and life. And not just single buildings burned. Early attempts at fireproofing were aimed at the spread of fire from one building to another as well as with limiting damage to the building in which a fire originated. Conflagrations in Chicago in 1871, Boston in 1889, Baltimore in 1904, and San Francisco in 1906 are examples of cities where fire spread across large portions of downtown areas with literally many hundreds of buildings lost. Advertising a building as “fireproof,” in particular hotels, took place well into the first half of the 20th century as many of us recall when driving through small towns or the older parts of our cities and seeing “Fireproof Rooms” advertised boldly on building facades.

The introduction of iron structural members in buildings followed their development in

England in the early 1800s. The limited amount of iron available in the US was expensive, compared with the timber materials in use at the time, since much of it was imported from England. By the middle of the century the Federal government, in particular the Treasury Department with its program of building US Customs Houses, was a strong advocate for the use of iron in building construction. This was partially to promote the development of the domestic iron industry, but also for the fire proofing advantages it was thought to provide.

In addition to the cost advantages of timber construction, there was a significant body of opinion, including many fire department officials, that thought iron wasn't as safe as its advocates advertised. They favored the continued use of timber construction in combination with exterior masonry bearing walls, particularly in New England textile mills, describing it as “Slow Burning” construction. This evolved into Type IV, Heavy Timber construction, as defined in our current building codes.

In 1892, the performance of fireproofing steel with hollow clay tiles was validated in a fire at the Chicago Athletic Club. This success led to a significant number of new buildings, especially high rises, constructed using this type of fireproofing. The increasing use of iron and steel coincided with development of the domes-

**BuchNotes** *cont'd on Page 11*

## New ASTM Standard Replaces 8 Gypsum Product Specifications

The task of specifying gypsum board products has just become much simpler.

A single ASTM International reference standard, ASTM C 1396, Specification for Gypsum Board, has now replaced eight standards previously used to designate specific gypsum board products employed in commercial and residential construction.

No technical changes have been made to the individual specifications incorporated into C 1396, which was established to avoid inadvertent inconsistencies in the requirements of individual products due to staggered document revision schedules.

Incorporated into the new ASTM standard for gypsum board products are:

C 36, Specification for Gypsum Wallboard

C 37, Specification for Gypsum Lath

C 79, Specification for Gypsum Sheathing Board

C 442, Specification for Gypsum Backing Board, Gypsum Coreboard and Gypsum Shaftliner Board

C 630, Specification for Water-Resistant Gypsum Backing Board

C 931, Specification for Exterior Gypsum Soffit Board

C 960, Specification for Predecorated Gypsum Board

C 1395, Specification for Gypsum Ceiling Board

To facilitate a smooth transition from the old standards to the new, all-encompassing standard, the gypsum industry agreed in 1999 on a five-year phase-in period during which product labels and literature would project both the new standard and the original product specifications.

Robert Wessel, Assistant Executive Director of the Gypsum Association and Secretary to ASTM C11 Committee on Gypsum and Related Building Materials and Systems, said the period of dual labeling was designed to give the industry time to educate specifiers on the need to use ASTM C 1396 in place of the existing specifications.

“Now that the individual product standards have been withdrawn and replaced with a single standard, C 1396, the building codes should soon reflect this change,” he said. “Moreover, design professionals should make sure that their specifications use the C 1396 designation instead of the previous standards so that they are in compliance with both industry standards and code language.”

Wessel also stated that builders and code officials need to know that the new standard replaces the eight previous gypsum product specifications.

**BuchNotes** *cont'd from Page 10*

tic foundry industry following the Civil War and with the rise of the Bessemer Converter in the 1870s for production of steel. Timber, for use as a structural material, was on the decline by the turn of the 20th century.

During this same period, The American Institute of Architects became an advocate for fireproof construction. Fireproofing techniques, including the use of fire sprinklers, were topics at several national AIA conventions late in the century. The AIA also produced numerous practical guides for the use of steel and fireproofing materials.

This book is a thorough presentation of the origins of current building codes and the development of building materials in the 19th Century. It is an excellent resource for anyone interested in an important aspect of our history that isn't frequently covered in standard architectural histories of the period.

### How to Change Your Personal Information with CSI

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