Program Information
Tuesday, March 15, 2011

Note change in time & format
Orange County CSI Chapter
March Meeting

Program: Special Joint Meeting with WWCCA & OCCCSI
Understanding Water Testing of the Building Envelope

Speakers: Jim Partridge, Smith Emery, CEO
David Van Volkinburg, DVV Associates Inc., President
Dana Nelson, Smith Emery

We will join the Western Walls & Ceiling Contractors Association for our March Meeting. The meeting schedule will honor their meeting style and location. The meeting begins at 3:00 p.m. with heavy appetizers and social time. The meeting proceeds at 4:00 p.m. with the program then a very generous raffle.

The program, Understanding Water Testing of the Building Envelope, features three speakers: Jim Partridge, David Van Volkinburg and Dana Nelson. They will present information on water testing an exterior curtain wall assembly with regard to ASTM E1105, AAMA and other tests. What the code requires with regard to Weather Proofing vs. Water Proofing. In addition, there will be considerations of lab and field testing.

Join us for this very interesting meeting.

Time: 3:00 PM Registration & Cocktails & Appetizers
4:00 PM Call to Order/Pledge of Allegiance/Self Introductions
Program
Raffle

Location: Phoenix Club - Pavilion
1340 S. Sanderson Avenue
Anaheim, California

Directions: Orange County Thomas Guide 769-EU and 799-E1,
57 Freeway to Ball Road exit, east to Phoenix Club Drive,
south to Sanderson Avenue, right to entrance

Parking: Plenty of free parking

Dinner Cost: $40.00 (includes $20.00 raffle ticket option) for OCCCSI members and nonmembers with reservations. (No-show reservations will be billed)

Reservations required by March 11, 2011. Call the OCCCSI hotline at 714-434-9909.
BOARD OF DIRECTORS

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Website: www.occsi.org

IN THIS ISSUE

President’s Message ............................................................. 3
Wren’s Western Output .......................................................... 4
Wolfe’s Howl ........................................................................ 5
Samuel Drucker, CSI, CCS Memorial ........................................ 6
April OCCCSCI Meeting ....................................................... 7
Learn about our CPSE 2010 Exhibitors .................................. 8
CPSE 2011 ........................................................................... 9
Buch Notes ........................................................................... 10
Tips From a Pro .................................................................... 11
West Region Report .............................................................. 12
OC News Flash .................................................................. 13
Calendar ................................................................................ 14

Committee Chairs

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Roster Catherine Sturgeon (714) 342-0290
Website Nathan Woods, CSI, CCCA, LEED AP (949) 809-3489

Advertising Rates

Business Card Size Ad  $250.00
Double Card Size Ad  $350.00
Quarter Page Size Ad  $450.00

Ads should be submitted as camera ready art. If on disc, the format should be Adobe Illustrator or Photo Shop. To purchase an ad space please contact Dana Thornburg, CSI (800) 600-6634

OC News Flash

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President’s Message ............................................................. 3
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Greeting to My Fellow OCCCSI Members,

As we are now into 2011, I would like to bring you up to date on some initiatives being made available by CSI Nationally, Regionally and your local Chapter.

National CSI holds quarterly Webinars for various regional and chapter officers. These are available to all chapters that have a person assigned to a Board position. I attend the Chapter Presidents' Webinars. The past one, on January 12, discussed the availability of offering the CSI CDT and related exams on a rolling basis, as opposed to the current system of once a year. Pro and con was discussed, but no firm decision was reached at this time. Also discussed was improved cash and information flow from National to the local chapters. I will keep you posted on future meetings and results.

Regionally, I receive updates on programs, obtaining new members, retaining existing members and making the Chapter more useful and worthwhile to our members based on success of other chapters in our region. This information is collected and distributed to all regional chapters to allow for growth and relevant to you.

Locally, we will be doing a survey to determine our Chapter's use and interaction for members using the Internet for accessing the Internet and distributing information. When you see the survey coming your way, please participate. All information will be anonymous and your e-mail address is not given to anyone. We will keep you posted when the results are tabulated.

We have already selected the theme of our CPSE on September 27th. Look for more information soon as to theme and speaker(s).

On February 26th, we will be having our Chapter's Long Range Planning Meeting at Thompson's Design Center. It is an opportunity for Board Members, and chairpersons to meet and discuss where we want to be in 3-5 years and the steps necessary to achieve these goals. We welcome your input. If you would like to attend, please contact me for additional information.

Last, but certainly not least, I and the other Officers of your chapter look forward to your questions and input. If you do not get a written response to a suggestion, from whom ever you contacted, please call me, 949/235-9566, and I will endeavor to get an answer.

Take care and please join us at our March and April Dinner Meetings, there is always information to be learned and friendships to be enhanced.

Steve
Who wants to read another article about membership in CSI? How many articles do we continue to read over the years that pontificate about the value and benefits of CSI membership? In fact, this column has featured many such articles about CSI Membership. This one will not be the standard party line.

This is more of an expose. What fun! This saga begins with the Orange County Chapter CSI (OCCCSI) maintaining our member contact information and preparing a new roster. OCCCSI maintains our own database of members. A monthly check is made of our membership roster that is sent to us by national CSI (otherwise known as the Institute). At times, we do have changes of information for our members. However, OCCCSI made several discoveries about the integrity of our membership roster sent to us by the Institute. These discoveries did not favor our chapter. We made phone calls and reached out to members in our research. Here is what we discovered:

- Some Members Emeritus or retired members have been unceremoniously dumped off our membership roster.
- Some of our members have received renewal information from Institute without listing the OCCCSI for renewal. This has even happened to several OCCCSI Board members. We lost members to non-renewal and could not figure out what happened. We made phone calls and send e-mail messages to these members. In fact, we did renew some of these persons by accepting their check directly to OCCCSI. OCCCSI will be reminding members in the future about their renewal coming up. OCCCSI has an obligation to reach out to our members since we, at the chapter level, are the ones who create true value for our members.
- The addresses of some Industry Members were changed without notice to their corporate address. For example, the address of a member that was previously listed in Santa Ana, California became listed in Cleveland, Ohio. This address works for the Institute because that Ohio address is where the money comes from for membership dues and Institute gets the “lion’s share.” We did contact these members with changed addresses to verify and confirm their contact information.
- The membership roster provided by the Institute is incorrect at times. This is not entirely their fault. New members may provide contact information that is unclear or incomplete. Some members may not update their contact information when moving or changing employment. These things happen. OCCCSI needs to be vigilant about our contact information with members.
- And, finally, OCCCSI had a few members that paid their yearly renewal fee then disappeared off the roster provided by the Institute. These members had not moved or quit our chapter. Unfortunately, they said yes to another chapter that solicited their membership. Somehow, that chapter had them moved off our roster to theirs. OCCCSI made contact and clearly informed
We've all heard countless times about the amazing technological changes of the twentieth century, going from horse-drawn buggies to a car in every garage and landing on the moon, from telegraph to cell phones, from dirt roads to superhighways, from fresh food to frozen, and so on. Many of those changes resulted in improvements in business or in our standard of living, and are so much an accepted part of our lives that we take them for granted.

In communication, the last century saw a remarkable increase in speed and convenience. Everyone in the US has known about telephones as long as they can remember. A few of the old crank phones were around for a while, but the rotary dial phone was common in the '50s, the touch-tone phone came along in the '60s, and cell phones in the '70s.

But while phones have been great for oral communication for nearly a hundred years, getting documents from one place to another was a problem well into the second half of the last century. There wasn’t much choice; sticking paper in an envelope and entrusting it to the post office was about it. And then came the fax.

I remember seeing Steve McGarrett getting faxes on Hawaii Five-O. The facsimile machine (fax) would create an image - usually of a ne’er do well he was tracking - on a spinning drum, a process that seemed to take half an hour to complete. Faxes were common around the world in the '80s, when faxing by computer came along.

Although the fax machine must have been a hard sell at first - "Great! I can get a copy of a document anywhere almost instantly! But who else has one?" - there were very good, and explainable, reasons to have a fax, which soon became an indispensable part of business. It was days faster than mail, and though the early machines were expensive, the obvious advantages increased demand, which led to lower costs and improved performance.

The cell phone has a similar history. The benefits of being able to contact someone nearly anywhere, or of being able to make a call without first finding a phone booth, were obvious, and demand again led to lower costs and improved performance. The advantages, again, could be explained.

And then we have the Internet and e-mail. Again, a tremendous improvement in ability to communicate. Virtually instantaneous transmission of documents, audio, and video at little cost. Although there was a lot of hype about the Internet, its benefits were easy to explain. I was an early participant, and a promoter, as the benefits were so obvious.

In contrast, the proponents of cable and satellite TV promised a wonderful future, full of educational and cultural programming, free of advertising. The supposed benefits were based on assumptions. The reality! Instead of four or five TV channels, we now have hundreds of channels of re-runs, "reality" shows, game shows, and other drivel - along with advertising.

The fax, the cell phone, and the Internet offered substantial changes in our ability to communicate, and the same may be said of the cell phone and Internet. The more immediate benefits of the Internet are obvious, and include the ability to search for information, to communicate, and to buy and sell. But the more immediate benefits of the cell phone are not obvious, and include the ability to communicate, to buy and sell, and to search for information.

In conclusion, the Internet and cell phone have brought about a revolution in communication, and the same may be said of the fax and cell phone. The more immediate benefits of the Internet are obvious, and include the ability to search for information, to communicate, and to buy and sell. But the more immediate benefits of the cell phone are not obvious, and include the ability to communicate, to buy and sell, and to search for information.
Our Treasurer, Samuel (Sam) Drucker, CSI, CCS, died February 7, 2011 (just 9 days shy of his 83rd birthday), in Orange, California, after complications from surgery. The Orange County Chapter of CSI will dearly miss his cheerful and helpful presence at all of our events.

Sam was born on February 16, 1928 in New York. His parents were Pauline and Nathan Drucker. Sam was the youngest of five siblings. Many of us remember Sam's lovely wife, Sylvia, who passed away in 1996. Sam is survived by three daughters - Deborah, Denise, and Diane; two grandsons - Alexander and Adam; two sons-in-law - Conrad and Mark; and many, many nieces and nephews.

Sam served in the military (Army, Private First Class, stationed in Japan) at the conclusion of World War II from 1946 to 1947. Sam moved to Los Angeles, California in 1949, where he met Sylvia. They were married and moved to Glendale, California. They later moved to Westminster in 1960 where they purchased their one and only home. Sam lived in that same house for over 50 years. Those of us who visited Sam in his home know what a loving and dear place it was.

Sam worked in the Architectural field as a Draftsman and Specifications Writer. He worked for HL Gogerty & Associates; Austin Field Fry & Barlow; and Blurock Partnership. Sam retired in 1996. During his career and retirement, Sam was a proud member of both the Orange County Chapter and Los Angeles Chapter of CSI. He served on the Orange County Board of Directors as a Professional Director and then became the Chapter Treasurer. He was an active member of many committees. Sam also served as Treasurer of the Los Angeles Chapter of CSI for a few years as well.

Sam was a member of the American Poolplayers Association (APA) winning many district and regional awards. He enjoyed playing pool, bridge and poker at the Senior Center. Sam loved spending time with his grandsons, and making sure that all the hummingbirds in his backyard had enough to eat. He also made sure that he had enough bread for the many species of other birds in his backyard as well.

Sam Drucker will be missed by all who had the privilege to know and love him. We will not be able to “fill his shoes”. He was a very brave and proud man to the end.
Program Information
Tuesday, April 12, 2011

Orange County CSI Chapter
April Meeting

Program: Fenestration Design Considerations for Safety and Security

Speaker: Raj Goyal
Goyal & Associates LLC

Raj Goyal of Goyal & Associates LLC will deliver a presentation on Fenestration Design considerations for Safety and Security dealing with events such as blasts, ballistics, hurricanes, seismic activities, etc. Blast resistance and bullet resistance fenestration design is an extremely important consideration in the world today. Is designing for blast, ballistics, hurricanes, seismic activities, or typhoons the same? Is ballistics protection the same as blast protection? Come to this meeting and find out!

Raj Goyal will explain considerations for understanding blast loads and testing; load designs and threat levels; load analysis; and loading defects on materials and glass. In addition, he will cover DOD-UFC 4-010-01 and -02 Glass; hazard classification & life safety issues; system interfaces & logistics; ballistics design; and blast/ballistics specifications.

Raj Goyal has been in the fenestration industry for over 40 years and holds two U.S. design patents. He has been involved in every major aspect of the fenestration industry from shop to quality control to engineering to sales and marketing. Goyal & Associates LLC is a consulting firm that concentrates on the Energy and Security aspects of the buildings as the firm assists fenestration manufacturers and architects. He started working at the Kawneer Company in the R & D group for product design. After moves within Kawneer, he later became Manager of Engineering and Technical Service in the Storefront and later the Curtain-Wall facilities. He joined TRACO as Director of Engineering and made a transition to sales and marketing as the Regional Sales Manager then became TRACO’s National Sales Manager. He retired from Graham Architectural Products Company where he started as the National Director of Business Development until his move to Vice President of Marketing and Blast Products.

Raj Goyal was born and raised in India where he received degrees in Physics, Chemistry and Mathematics from Punjab University. Raj came to the United States to attend the Indiana Institute of Technology for a degree in Mechanical Engineering and later attended Notre Dame for a Master’s Degree in Materials Science and Metallurgical Engineering. He has written many articles on fenestration published in a variety of trade journals. Energy issues are always foremost on Raj’s mind since he came from a country where the cost of energy is excessively high and availability is scarce. He currently lives in a state where energy costs are also high and energy availability is at a premium.

AIA/CES Learning Units available.

Time: 5:45 - 6:45 PM Social/Tabletop Exhibits/No Host Bar
       6:45 - 7:30 PM Dinner
       7:30 - 8:30 PM Program

Location: Phoenix Club
          1340 S. Sanderson Avenue
          Anaheim, California

Directions: Orange County Thomas Guide 769-EU and 799-E1, 57 Freeway to Ball Road exit, east to Phoenix Club Drive, south to Sanderson Avenue, right to entrance

Parking: Plenty of free parking

Dinner Cost: $30.00 for OCCCSI members and nonmembers with reservations.
             $40.00 at the door.
             (No-show reservations will be billed)

Tabletops: Product representatives are invited to display at this meeting.
           The cost for a tabletop is $80.00.
           Contact Pete Thomsen at (800) 600-6634 for information.

Reservations required by April 8, 2011. Call the OCCCSI hotline at 714-434-9909.
CPSE 2010 EXHIBITORS

We are proud to present our exhibitors from our Construction Products & Services Expo 2010. Each exhibitor has been chosen to provide you with high-quality products and services that are sure to make your next project a success. The following is a list of our exhibitors, along with their contact information and products that they offer.

Fortifiber Building Systems Group: Fortifiber Building Systems Group® has a sixty-five year history of proven performance, technical expertise and practical know how. Fortifiber offers a complete system for moisture control and protection against water intrusion. When integrated into the building envelope, our products help manage and eliminate moisture-related problems, including water related structural failure, mold and mildew. Fortifiber also offers one of the industries best ten year warranties to builders and owners who use our products in a properly designed and constructed wall system. Contact: Allen Zeigler; azeigler@fortifiber.com; Cell: 775-742-9728

SIMPSON STRONG-TIE COMPANY: Since 1956, Simpson Strong-Tie has focused on creating structural products that help people build safer and stronger homes and buildings. A leader in structural systems research and technology, they offer a line of Lateral Resistant products, Anchor Systems and performance critical fasteners. Simpson is the largest manufacturer of structural connector products in the world. Contact: Joe Polder; 714-493-3388.

PACIFIC POLYMERS, INC. - An ITW Company: In its ongoing commitment to provide the construction industry with a widely diverse line of Waterproof Coatings, Sealants, Membranes and Epoxies, Pacific Polymers, Inc. has put over 40 years of successful research and development into a complete line of technically proven and tested products. In 2008, Pacific Polymers became a division of ILLINOIS TOOL WORKS (NYSE:ITW), A Fortune 200 Diversified Manufacturing Company with over 925 decentralized business units in 52 countries. Contact: Kimberly Grosch, CSI - Architectural Marketing; (714) 898-0025 ext. 2104; www.pacpoly.com.

Structa Wire Corp. is a manufacturer of Welded Wire products used for stucco reinforcing. There are Structa products designed for walls, ceilings and corner applications. All of our products are approved as alternatives to traditional metal lath and are particularly suited for commercial construction. Structa is designed to improve the performance of stucco through innovative product design. A strong focus on engineering & design ensures superior products that provide worker friendly benefits and enhance both the appearance and durability of stucco. Contact: Jan Finseth - Structa Wire Corp., Sales & Marketing, 604 254 8530 ext. 105. Or 1 800 887 4708; http://www.structuredwire.com.

Stego Industries, LLC is the leading manufacturer of below slab vapor barriers. Our focus is to provide a superior product and exceptional customer support. Our Stego Wrap vapor barriers and vapor retarders are made of the highest quality virgin resins assuring strength and longevity. The low permeance, high tensile strength and high puncture resistance make Stego Wrap the ultimate defense against harmful moisture intrusion. Stego Wrap is the vapor barrier of choice in the design and construction communities. Learn more about how Stego Wrap can be incorporated into your next project. Contact Information: Mike McCarthy, MBA, CSI, CCPR; Southwest Regional Manager; mikemccarthy@stegoindustries.com; Office: 949.257.4100; Cell: 949.412.3444; Fax: 949.257.4113.

Smalley & Company: Smalley & Company is a 43 year old business to business company that specializes in: Building Sealsants, Waterproofing for a wide variety of applications, Concrete Repair for building remediation process and Fire Protection Systems to provide life safety to your clients buildings. Smalley & Co was launched in Los Angeles by Mike Baker in November of 1992. We now have 8 sales professionals in the Greater Los Angeles and Orange County surrounding areas. Mike is the key contact for professional interaction with Design Professionals. We are active in all New Construction and remediation projects. Our largest product lines are Dow Corning Silicone Building Sealants & AllGuard Coating. Contact: Mike Baker, 714-906-3970.

Parex USA, Inc., a subsidiary of the ParexGroup/Materis, S.A., is one of the world’s leading manufacturers of specialty chemicals and ready-to-use mortars for the construction industry. With over 175 years of combined industry experience, Parex USA is one of North America’s most respected suppliers of building materials. Their dynamic offering of leading brands supports the building industry with the highest standards of service and product development in the industry. Parex USA is committed to exceeding customer expectations and the demands of an ever changing industry. With a solid commitment to excellence, Parex USA is renowned as one of North America’s most respected suppliers of EIFS, stucco solutions, and tile and stone installation systems. Our brands include: Parex; LaHabra; MerKrete; and Mer-Ko. Contact: Susan Foster, Architectural Sales & National Accounts Manager, (714) 319-3186, Susan.Foster@ParexUSA.com, www.ParexUSA.com, or toll free at (866) 516-0061.

The Arcadia Group is a leading, single source, supplier of architectural building products including curtain wall, storefront, entrances, windows and interior framing. Arcadia’s architectural development staff maintains products that comply with the Leadership in Energy and Environmental Design LEED for Core and Shell Rating System. The type of knowledge, experience and passion that Arcadia embodies serves as the framework for their commitment and service to the design community. Arcadia’s passion developed 80 years ago to provide the architectural community a source to assist the preparation of both drawings and specifications. Contact: James Fitzsimmons, Number: 323-908-5466.

Gerard Daniel Worldwide offers custom weaving capabilities for woven wire mesh up to 9.5 feet wide in square mesh and clear openings. Our weaving range is from 4-inch square openings with a .250 inch wire diameter. Beyond custom weaving, we also maintain a large inventory of stock woven and welded mesh. Many wire specifications are available in various metals such as plain steel, galvanized steel, stainless steel, aluminum, copper, brass and bronze. Fabrication services such as cutting to custom size and shapes provide flexibility in design, uniform fit and minimum of waste. Combining numerous available mesh patterns, various metals, custom sizes and shapes allow the designer a wide range of flexibility. Various metal surfaces of wire mesh create optical contrast with other materials. The appeal of wire mesh is that it takes on the color of its surroundings and reflects them. Used indoors or out, wire mesh assists to merge design and environment. Contact: Brian Killiam; Sales Manager Western Division; Gerard Daniel Worldwide; Phone 951-360-8117 Ex 230; Fax 951-360-8118.

CENTRIA is based in Moon Township, PA and formed 14 years ago, when the well known and well respected H H Robertson, E G Smith and Steelite merged. Combined, CENTRIA has well over 100 years worth of experience in the system design, engineering, and manufacturing of high quality and high performance exterior grade insulated and non-insulated metal wall and roof panel systems. The varied product line include: Formawall Dimension Series, Formavue Window Systems, Versawall/Versapanel insulated metal panels, Formabond and Formabond II aluminum composite panel systems; along with Profile Series Wall Panels and SRS Roof Panel non-insulated metal panel systems, and a wide selection of metal accessories. CENTRIA’s newest innovations to the construction industry include MetalWrap, Integrated Metal Vertical Joint, and Formawall PE vertical seal plate CENTRIA has a long history and involvement in the sustainability movement, and offers many benefits to its customers through sustainable practices and environmental stewardship. Our mission is to meet the sustainability needs of our customers by putting innovative ideas into action. Gary M. Kehrier, CSI, CDT; Southern California District Sales Manager; 949.589.0997.
**Event:** Construction Products & Services Exposition 2011  
**Marconi Automotive Museum & Foundation for Kids**  
1302 Industrial Drive  
Tustin, California  

**September 27, 2011**

**Sponsor:** Orange County Chapter Construction Specifications Institute

**Invitation:**
- You are invited to participate as an exhibitor.
- Architectural seminars with AIA/CES credit prior to exhibits.
- Display your products for local design professionals, owners, contractors, facilities managers and others.
- Exhibit hours are 4:30 p.m. to 7:30 p.m.
- Gourmet hors d’oeuvres passed during exhibit hours.

**Reservation:** Please make your check payable to the Orange County CSI Chapter. Upon our receipt of your check, you will then receive set-up details and location confirmation. No verbal, fax or credit card reservations will be accepted. For questions, please call Bryan Stanley (714) 221-5520 or Gary Kehrier (949) 589-0997

**Price of Exhibits: **

**BEFORE, June 10, 2011 (Postmarked)**
- Tabletops (6’ x 2-1/2’ table).................................$600.00 each
- Mini-Booths (8’ x 2-1/2’ table)............................$700.00 each
- Booths (approx. 10’ x 8’).......................................$900.00 each

**AFTER, June 10, 2011**
- Tabletops (6’ x 2-1/2’ table).................................$700.00 each
- Mini-Booths (8’ x 2-1/2’ table)............................$800.00 each
- Booths (approx. 10’ x 8’)....................................$1,000.00 each

**Mail to:** Orange County CSI Chapter  
Post Office Box 8899  
Anaheim, CA 92812

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**RETURN THIS PORTION WITH YOUR CHECK**

**Event:** Construction Products & Services Exposition 2011  
**September 27, 2011 - Marconi Automotive Museum & Foundation for Kids**

Amount Paid: ..............................................................$_______________________________

Contact Name: _____________________________________________________________________________

Company Name: ____________________________________________________________________________

Address: ___________________________________________________________________________________

City, State, Zip: ______________________________________________________________________________

Phone Number: _____________________________________________________________________________

Fax Number: ________________________________________________________________________________

E-mail Address: _____________________________________________________________________________
Finally, here’s a book describing the construction of a significant world monument told from the perspective of an engineer. Unlike Steven Ambrose’s book on the construction of the trans-continental railroad in the 1860s or even Mathew Parker’s “Panama Fever”, describing the construction of the Panama Canal, Craig B. Smith’s book, “How the Great Pyramid was Built” focuses on the planning and the details of the construction itself. In the absence of any written records, the book provides the logic and insight necessary to understand how the construction of the Great Pyramid of Khufu at Giza, Egypt, took place, a project so immense and constructed with such primitive tools, that if it weren’t still standing today, one would think its construction 4,500 years ago would have been impossible.

Until the construction of the Washington Monument in 1885, the Great Pyramid of Khufu was the tallest man made structure in the world. Smith calculates the finished height of the pyramid to be 481 ft. with the average length on each side at the base to be 756 ft. It is comprised of an estimated 2 Million cut pieces of limestone each weighing anywhere from 2,000 lbs. to 10,000 lbs. The precision of the work is extraordinary with the variation in length of less than 4” on each side, measured at the base of the pyramid, and the levelness across the entire first course varying by less than 3/4”.

Smith’s approach was to take modern project management scheduling techniques along with an assumed work breakdown structure and apply these to the facts of pyramid and to what is known of Egyptian society at that time. Using this approach, Smith draws conclusions about the duration of construction, (5 to 8 years), the number of workers required for construction, (30,000 during the 3 years of peak construction activity), and the methods for moving the stones from the quarry to the pyramid and then up to their required positions, (no wheels or rollers, only wooden sledges pulled by teams of workers up long ramps). Smith also observes that while the construction activities were simple, the huge number of workers required to carry out these tasks put a premium on careful planning of all activities. This planning had to consider housing and feeding of the workers and their families, the manufacture of copper, wood, and stone tools, the quarrying of the stone, transport of the stone to the site, and to the final placement of the stone.

Smith’s conclusion concerning the central question of how the cut blocks of stone were moved up the pyramid is based on the idea that the Egyptians would have taken the path of least resistance. This immediately eliminates the use of an external ramp for moving stone up the entire height of the pyramid since its length, and the amount of material necessary for its construction, would have exceeded the total amount of material necessary for the pyramid itself. Rather, he theorizes a combination approach was used. This meant a wide external ramp was used up to the 55th course of stone. By this point nearly half of all the stone would have been in place. From the 55th course up to the top of the pyramid, at course 218, a ramp was let into the four sides of the pyramid as its construction continued upward. Once the top was reached, the ramp was filled in from the top down.

Craig Smith is the retired former chairman of DMJM, H+N. He wrote this excellent little book based on his personal research including extensive time at the site. This researched was combined with his experiences in the management of major design and (continued on page 15)
TIPS FROM A PRO

BY Richard L. Gonser Jr., AIA, CSI, CCCA, SCIP, LEED

There is a free way to research the building code!

Happy New Year to all. Again this year brings new laws that all of us in the building industry have to add to our already voluminous collection. Almost no media outlet seems to produce a list and summary of these new statutes that many of us have to deal with at some level.

First, there are the building codes. Most all of us in the construction business are aware of these. What many people don’t know is that you can now access these codes for free. Summaries of the changes in these documents are available from other sources.

The newest requirement of the bunch is the now mandatory CalGreen Code. Summaries of this new one are available. The biggest item in this code is that how it is applied varies between jurisdictions. Adjacent cities can have widely different implementations. Anecdotally, most cities I’ve heard about have elected the minimum standards. But then there is always the “peoples republic of [fill in the agency of your choice]”. Some cities are known for being zealots of some kind.

The International Code Council has the California modified version of their model codes available on their website. Plumbing and Mechanical codes are also now available on the web, through the efforts of the Building Standards Commission.

New to California is a "Guide to Title 24" created by the Building Standards Commission to assist ALL users in the interpretations and use of these codes. It is available on the BSC website in PDF format.

Active Building code listings and their hyperlinks to the individual code websites are below. Of course you can still order the paper versions that I believe are easier to read and reference.

- Title 24, Part 1, 2010 California Administrative Code (First Printing), PDF Version available.
- Title 24, Part 2, 2010 California Building Code (First Printing).
- Title 24, Part 2.5, 2010 California Residential Code (First Printing).
- Title 24, Part 3, 2010 California Electrical Code, NO FREE WEB VERSION AVAILABLE - This Code is preassembled with the 2008 National Electrical Code (NEC) of the National Fire Protection Association (NFPA).
- Title 24, Part 4, 2010 California Mechanical Code.
- Title 24, Part 5, 2010 Plumbing Code.
- Title 24, Part 6, 2010 California Energy Code (First Printing), PDF Version available.
- Title 24, Part 7, Formerly the Elevator Safety Construction Code. This is now covered by Title 8 - Industrial Relations, of the California Code of Regulations.
- Title 24, Part 8, 2010 California Historical Building Code, PDF Version available.
- Title 24, Part 9, 2010 California Fire Code (First Printing).
- Title 24, Part 11, 2010 California Building Standards Code (First Printing), PDF Version Available.
- Title 24, Part 12, 2010 California Referenced Standards Code (First Printing), PDF Version Available.

The part that always gets us as design and construction professionals are the laws and statutes that the legislature
Happy New Year to all in the West Region. Can you believe this year has gone by so fast? I’m betting that some of you are happy to leave 2010 for a hopefully more prosperous 2011. For those of you that have weathered the ups and downs of 2010, I commend you all. I know that CSI has helped me to keep a positive attitude through the year.

The Fresno Chapter was fortunate to have a prosperous West Region (WR) Conference back in September. They are in the black and have started breathing again, and are now planning for their annual product show next April. The Fresno Chapter board hopes to partially reimburse the conference committee for all the fine work and dedication they provided to the Region. Bob Siegrist, Co-Chair of The 2010 WR Conference committee has forwarded financial and hotel information to the 2012 WR Conference committee to facilitate in their planning efforts. This is CSI working together!!

You all should soon see information on the WR and Northwest Region Websites regarding the upcoming Northwest Region Conference to be held in Eugene, Oregon in June of 2011. The Conference is being sponsored by the Northwest and Willamette Valley Chapters, CSI. For those of you that want to attend a Region conference prior to the WR Conference in 2012, here is your chance. Keep an eye out for that information. They are actively looking for conference sponsors and product exhibitors. If you want to know more, you can contact Brian Lighthart at briklight@comcast.net with the Northwest Region CSI Conference committee.

I am going to do my best to visit all of the northern Chapters prior to next June. I would ask you to please send me your monthly Chapter meeting dates. I very much enjoy attending the different chapter meetings and meeting the members. As offered last year, I will be happy to install your new Chapter Board members when the time comes.

It looks like we will be having the Mid Year Board meeting at the Oakland Airport Hilton Hotel again this year. The dates are March 4th and 5th with a speak up session and No Host Dinner on Friday evening, with board meeting Saturday. I believe Craig is looking for a good dinner spot near the hotel, and a decently priced lunch for Saturday.

For those of you wanting to increase your knowledge of Concrete and Concrete Masonry, the ICON EXPO 2011 is being held in Las Vegas March 22-26, 2011. ICON EXPO is the trade show for the concrete and hardscape industry, produced by the National Concrete Masonry Association (NCMA), and sponsored by the International Concrete Pavement Institute (ICPI), the Cast Stone Institute (CSI), the Portland Cement Association (PCA), and the Expanded Shale, Clay and Slate Institute (ESCSI). There will be over 600 hours of education, Global exhibitors, and networking opportunities at social events. So if you want to increase your knowledge of concrete masonry, retaining walls and hardscape paving, this is the place to be next March. You can find information (continued on page 15)
OC NEWS
FLASH

New & Renewing OCCCSI Members

Thank you to the following Orange County Chapter CSI members who have chosen to join or renew their membership (reports received from November 2010 to December 2010):

Abowd, John
Baker, Michael
Cisco, Dale
Coats, Darin
Demmond, Robert
Erselius, Jay
Houck, Bret
Kerfoot, Justin
Lampert, Geraldine
Matteo, Richard
McLane, Michael
Roa, Bradley
Rudyan, Amir
Russell, Dwain
Sayeg, George
Stanley, Bryan
Sualua, Leie
Temple, M. Allan
Wolf, Jeff
Wren, Annette
Zatarain, Juan

Congrads to Grandpas!

Congratulations to new grandpa Steve Olitsky (OCCCSI President). His daughter, Debra, had twins! The babies are Jake and Lily Gelb born on January 16, 2011. Proud daddy is Keith Gelb. Jake and Lily have three other siblings: Max, Nate, and Tyler. Steve had a wonderful visit with them in January.

Congratulations also go to new grandpa Gary Kehrier (OCCCSI President-Elect). Jayden Alexander Kehrier was born at 1:29 a.m. on January 10, 2011 coming in at 9 lbs. 7 oz. and 21 1/2 inches. Jayden has a sister, Haylei-Ann, and his parents are Jonathan and Elise Kehrier. The stork has been busy!

Product Announcement

Merlex Stucco Introduces Insulex - An Energy Efficient, Continuous Insulation, One Coat System

Merlex introduces Insulex, a fiber-reinforced Portland cement exterior plaster for use in continuous insulation one coat stucco systems, ideal for achieving superior energy efficiency. This product may be used in conjunction with various foam substrates to create wall assemblies with higher insulation R-values and improved crack- and water-resistance. Insulex may also be used over wood or gypsum backing and as a scratch and/or brown coat application for a conventional stucco system. Insulex Concentrate is mixed with sand on the jobsite. Insulex Sanded is available with premixed sand for convenience. Insulex contains 10% post-industrial recycled content or as an optional recycled aggregate for 33% recycled content and LEED credit. For more information please visit our website, www.merlex.com or call 714.637.1700.

OCCCSI AND LACSI
JOINT MEETING 2011

Photos by Jerry Foster
improvements in communication, and were obviously useful in doing business. Today, we're being told how important it is to use social networking, and that to survive, a business must use it. But, unlike the fax, the cell phone, the Internet, and e-mail, there has been no clear benefit associated with the social network.

Let me make a distinction here; I'm talking about business. I like satellite TV because I like to watch movies, and I have a Facebook account because that's where my kids put pictures of their kids. Much of the fun of Facebook comes from the free-for-all commentary in response to comments and pictures, and the ease of posting both. But does that work for business? While a website will always deliver the desired message and image, Facebook, and, increasingly, LinkedIn, are chaotic, with the last visitor defining to the next visitor what the group is.

If anything, the use of LinkedIn and Facebook groups for business has confused communication by increasing the number of places to store and look for information, and Twitter's tweets are more of an annoying buzz. I'm not saying that these things don't have a place; I just haven't seen a good example of their use in business. While I am interested in what my friends are doing, on a business level, I don't need to see personal details - when they feel good, when they have a headache, what the dog's latest trick is, and so on. When I go to Facebook, that's what I expect, but I don't want to see it when I'm doing business.

So far, random thoughts are what social networking seems to be about. I recently read an editorial in Structural Engineering & Design, which talked about the magazine's expansion into social media. In the same issue, the following were offered as "Top tweets" on the magazine's website:

• "Managers fear tighter budgets..."
• "George Washington University tests materials..."
• "Cleveland casino to break ground in 2011"
• "...bridge collapses..."
• "Will [one building be taller than another]?

Not one of these offered information that was of immediate interest, or would affect most readers soon enough to warrant the use of their time to read them. I looked through more tweets on the magazine's website, and again found nothing critical; everything there could have been handled in a monthly update. A bridge collapse may be interesting, and might be of immediate concern to a very small number of people, but the date of the tweet was a day after the collapse, so it wasn't exactly breaking news.

While writing this, I revisited the magazine's Facebook site. Virtually everything on the wall was a tweet, with a couple of Thanksgiving Day greetings, and a "hi everybody". There were several photos from a meeting, magazine covers, and no discussions. In short, it was mostly material that would appear in the magazine. The magazine is published both in print and on paper, so the Facebook site adds little that isn't already available.

A real concern is the fragmentation of communication. If I want to know more about something mentioned by Structural Engineering & Design should I go to the website, the LinkedIn site, the Facebook site, or Twitter? Does each have a unique function? If the same information is repeated everywhere, what is the point of having multiple sources? And if it's different, how will I know where to go? Who is making sure that it's current and correct? Of course, if Mark Zuckerberg has his way, there will be only one answer!

Many organizations and companies are struggling with these issues. Unfortunately, the unsubstantiated claims - "You must use Facebook!", "You won't survive if you don't tweet!", and so on - exacerbate the problem. I am not a Luddite; my experience with computers goes back to punch cards and FORTRAN, and I was an active and early promoter of websites and e-mail. I have created and maintained websites; e-mail and the Internet are essential to my job; and I have LinkedIn, Facebook, and even Twitter accounts.

CSI has about 120 websites, about forty-five LinkedIn groups, and half a dozen Facebook groups. About fifteen of the websites are down, and many of the remaining sites promote activities that are two or more months old as "coming events". The most recent comments in many of the LinkedIn groups are months old, and some go back more than a year. Isn't CSI the organization that promotes "say it once in the right place"? With information appearing in so many places, will it be clear, complete, concise, and correct? And isn't current important? It's better to have a static website with basic information than to have one that shows that no one cares about what is available.

Convince me! Would we not be better off with an organized, consistent Internet presence? If it's so important to be involved in social networking, shouldn't we be everywhere? If you click on the "share" icon on many websites, you get over three hundred options - should we use all of them? If we continue to create new groups in other networks, who will manage the content? Who has the time to follow all of them? At the moment, the lack of activity on nearly all of these websites and groups is not an enticement to participate; instead, it indicates a lack of both purpose and interest.

I do not object to progress; I believe that most advances in technology and communication have valid uses. However, I also believe in use of the appropriate tool for the job at hand. I don't kill flies with a shotgun, and I don't see the value of telling the business world that I'm at a great seminar or that I had a hard day at work.

I do think it's possible to have a website as a formal source of information, and a more casual presence on Facebook or LinkedIn. Having a group for people studying for an exam, as suggested by Joy Davis, is a good idea, and I'm sure there will be more. But, instead of making vague claims about why we simply can't survive without social networks, show us a real benefit. Don't put up new websites and groups just because it's easy; figure out what you want them to do, make a plan to achieve the goals, and keep them current and active.

Please - convince me!

© 2011, Sheldon Wolfe, RA, FCSI, CCS, CCCA, CSC
Follow me at http://swconstructivethoughts.blogspot.com/, http://twitter.com/swolfearch
TIPS FROM A PRO
(continued from page 11)

creates in areas other than the building codes. For once, I thought we should be made aware of them. That is the subject of my next article.

Richard Gonser, AIA CSI CCCA SCIP LEED is an independent Consulting Architect and Specification Writer in Southern California. He can be reached at SpecStudio@verizon.net. If you would like a copy of this article with active web links, please send me a request by email.

WEST REGION CORNER
(continued from page 12)

on ICON at www.iconexpo.org or E mail to info@iconexpo.org.

Also on the subject on Concrete Masonry, in the November issue of The Specifier, there is an excellent article, page 30, on designing with Concrete Masonry and Hardscape Products. The article keys on the impact of concrete masonry in various aspects of sustainable design. The article explores the Green capabilities of concrete masonry in segmental retaining walls (SRWs), articulated concrete blocks (ACBs), and pervious paver and open grid pavement systems, along with the concrete masonry units (CMUs) used in commercial and residential construction. I may be a little Bias here, but this is good information on the sustainability of concrete masonry.

On the subject of the West Region Membership publication, I have extra copies in my office and will be glad to send them out to anyone wanting a copy or an additional copy. I have 33 left, so please let me know if you want one.

I sincerely hope you all will be prosperous in the coming year. If there is anything I can do to facilitate that, please do not hesitate to call.
**MEETING SCHEDULE AND INFORMATION**

Make reservations by the Friday preceding the meeting.
Call the Chapter Hotline at (714) 434-9909

**UPCOMING MEETINGS:**

<table>
<thead>
<tr>
<th>March 1</th>
<th><strong>Flyer Deadline</strong></th>
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<tbody>
<tr>
<td>March 8</td>
<td><strong>OCCCSI Board Meeting (5:30 p.m.)</strong>&lt;br&gt;Thompson's Design Center&lt;br&gt;1716 Case Road&lt;br&gt;Orange, California</td>
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<tr>
<td>March 15</td>
<td><strong>Joint WWCCA &amp; OCCCSI Meeting (3:00 p.m.)</strong>&lt;br&gt;Phoenix Club&lt;br&gt;1340 S. Sanderson Avenue&lt;br&gt;Anaheim, California</td>
</tr>
<tr>
<td>April 1</td>
<td><strong>Newsletter Deadline</strong></td>
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<tr>
<td>April 12</td>
<td><strong>OCCCSI Board Meeting (4:30 p.m.)</strong>&lt;br&gt;Phoenix Club&lt;br&gt;1340 S. Sanderson Avenue&lt;br&gt;Anaheim, California</td>
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<tr>
<td>April 12</td>
<td><strong>OCCCSI Meeting (5:45 p.m.)</strong>&lt;br&gt;Phoenix Club&lt;br&gt;1340 S. Sanderson Avenue&lt;br&gt;Anaheim, California</td>
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