Greetings All -

The Concrete Reinforcing Steel Institute recently concluded the annual Fall Business and Technical Meeting in Chicago. Attendance at the meeting was around 215, a level concurrent with the uptick in activity most of us are seeing. Having first been established in 1924, CRSI is proudly celebrating our 90th year. For those of you who were able to attend, thank you for your time. For the folks unable to break free, a short summary of the gathering follows...

Many topics were addressed at the meeting but probably one of the more important items decided was the issue of dues. Your board of directors has decided that the dues freeze/floor will be continued thru 2017. It is the feeling of the board that although shipments are on the increase, tonnage will not likely return to previous levels and be reflected in dues for the next several years. For those fortunate enough to have seen an increase in shipments your dues may increase accordingly. We owe a debt of gratitude to the large producer-members because they have all maintained their dues payments while enduring lower shipments.

Another of the relevant items included the evolution of higher grades of reinforcing bars. The buzzword all week was “Grade 100”. ASTM is balloting the adoption of reinforcing stel wth a yield of 100 ksi. A very large amount of work remains after the adoption of the standard because the concrete code (ACI 318) does not include provisions for design with steel stronger than 80ksi. There are other issues related to use of the material that are complex, unresolved and beyond the scope of this memo, but CRSI Vice President of Engineering Mike Mota has all kinds of information for those who wish to know more.

Last year CRSI decided that the Detailer Training Program first developed in the 1990’s was in need of an update. The board committed a six-figure amount to reinvigorating the software and the visuals of this best-selling program and converting it to a web-based application. The new program will be available by January 1, to all volume dues paying fabricator members. It is the strong feeling of the Institute that this software is one of the most important and valuable things provided to members, and no non-members should be allowed access. The new program includes most of the latest capabilities of CAD-based listing and tagging. Dave Grundler of aSa and others on a task group of the Detailing Committee overseeing the project once again volunteered many hours of time to the project. I have seen the demo and it is slick. Additionally, the web –based access will preclude use by your non-member competitor.

One other hot topic was the political action of the institute. CRSI has established a political action committee (PAC) aptly termed “Rebar PAC”. I wonder how long it took to come up with that. The PAC will be investing its funds in those issues that affect the market for reinforced concrete construction. In a related matter, CRSI is also an active participant in the highway funding discussions. As most of you are aware, the federal tax on a gallon of gasoline has not changed in 20 years. John & Jane Doe have little or no knowledge of this and that makes a hard sell. We feel the time for a long term solution to highway funding is now. Highway spending is one of the best ways to insure a robust economy.

There are many more exciting things underway, but I am told I am out of space. Thank you for your attention, comments and questions are always welcome.
President’s Message

CRSI Looking Strong on 90th Birthday

Happy Birthday, CRSI! You turned 90 years young on October 22 — and if I may say so, looking very well indeed!

It was in Pittsburgh at the William Penn Hotel on October 22, 1924, that 25 rebar fabricators and distributors of new billet steel rebars came together to form a new organization to represent the industry. After much debate on the name of the new organization, they settled on the Concrete Reinforcing Steel Institute. They named William H. Pouch with Concrete Steel Company of New York as the first President. Dues were set at 6 cents per ton (average hot-rolled steel bar went for $44 per ton in 1924.)

Since that time the Institute has survived through a Great Depression, a World War, a number of recessions – including a Great one – the emergence of electric arc furnaces, and many business cycles and consolidations and spinoffs within the industry. Our members have helped build modern America.

Now headed into the last decade of CRSI’s first century, the Institute is as strong as ever and taking a leadership role in the concrete construction industry. I wonder what the founding members of CRSI would think of where we are today: a vibrant marketing organization with an aggressive plan for capturing market share for steel reinforced concrete with a staff of region managers spread across the country; an ANSI accredited national standards developer, taking our place beside ACI and ASTM in producing standards for downstream reinforcing steel fabrication and placing; producing and maintaining industry reference documents such as the Manual of Standard Practice; providing valuable services to members including a newly revised Detailer Training Program based on the web (what’s the web?; what’s a computer?); and a government affairs committee recently elevated to full Board Committee status, complete with our own Political Action Committee (REBAR PAC). I think the founders would be proud and maybe more than a little amazed at what the members of CRSI at 90 have accomplished, and also at the plans for the years ahead.

In this issue of CRSI Insider, I hope you’ll see the value of the many activities and programs CRSI has to offer at both the national and local level. As a CRSI member, please get involved in your Institute. Our recent Fall Business and Technical meeting in Chicago was the best yet, with all the committees and task groups busy on so many projects. We’re most proud of the reaction of several first time attendees who were overwhelmed by the extent of CRSI activities – and most importantly vowed to come back!

It seems fitting that at CRSI’s 90th birthday, the Institute continues to grow its involvement in Government Affairs, particularly around the issue of transportation funding. Many of the crumbling bridges in our aging system are as old as or older than CRSI itself. This is an issue that should be important to all our members and I urge you to get involved, either with the Government Affairs Committee directly, or through contact with your member of Congress in the months ahead. The specifics are available at the newly updated Government Affairs section of the CRSI website. Current transportation funding will expire in May 2015, and we’ll need your involvement as soon as the new Congress gets seated in January.

Finally, on behalf of your dedicated staff, I want to thank you for your support and involvement in CRSI. As we wind down a busy and productive 2014, and look forward to even more in 2015, I wish you and your family a safe and happy holiday season and a profitable New Year.

A State-Of-The-Art, Online Detailer Training Program Is Coming

CRSI’s new online course teaches learners about key people, project requirements and deliverables, provides an introduction to industry terminology and standards, and prepares trainees for a successful detailing career. CRSI’s Detailer Training Program is designed to train and retain efficient reinforcing steel detailers in Members’ fabrication shops.

The Detailer Training Program will be available in January 2015 to members with Fabricator classification.
Marketing Committee Fall Session Wrap-Up

By Steven R. Hawkins, Sr., AIA, Vice President of Marketing, and Dave Mounce, Director of Communications

PCA Presents an Upbeat 2015 Economic Forecast

Jobs, jobs, jobs. Echoing this key factor again and again, Portland Cement Association (PCA) Chief Economist Ed Sullivan defended his optimistic construction market forecast as a prediction built upon a steady rise in employment as one of several leading indicators. Ed Sullivan’s clear argument is that jobs create momentum in the largest sector of the economy – individual spending – on everything from groceries to durable goods, services to housing. All of this spending fuels growth in construction and a huge supply of pent-up demand from years of stagnation has created fresh incentives for investment in construction.

Construction sector employment has grown so significantly in fact that there is a real risk that growth could be slowed simply because there are not enough qualified candidates to fill the demand on construction projects in some markets. Despite current political and employment concerns, a consensus of projections from various sources suggests strong growth over the next several years and our members have plenty of reasons to be optimistic.

Ed Sullivan’s detailed PowerPoint presentation is now available for viewing on the CRSI website in the members-only section.

The forecast also highlighted the value and timeliness of CRSI’s January 2015 rollout of an Online Detailer Training Program. With strong business growth among fabricators and a limited supply of experienced detailers, training new detailers will become more critical to supporting growth. Only CRSI member fabricators will have access to this resource and that will clearly be a productivity advantage for our members.

Introducing CRSI’s Market Impact Dashboard

In the fall of 2012 a detailed analysis and debate among members of our Marketing Committee produced a clear set of strategic objectives including the decision to focus CRSI staff efforts and promotional resources on educational, healthcare and commercial office markets as key growth opportunities. To support and measure progress in that effort we needed a tool our members could access to monitor trends and evaluate results. Working with CRSI Marketing Committee leadership and made possible by a new data-sharing partnership with PCA we’ve developed a CRSI Market Impact Dashboard as an online quick-reference resource for this purpose. Tony Johnson, Midwest Region Manager and Dave Mounce, Director of Communications have both contributed very generously to this development effort. The dashboard presents interactive access to market trend and forecast information specific to our industry at national, regional and state levels. This information is updated three times a year, as new data is available. Members can select their area of interest and immediately see charted trends and forecasts for construction activity and apparent use of reinforcing steel. Charts comparing trends that can guide our decision-making process it is useful to see movement in trends that can guide our decision-making and approach adjustments over time. We encourage all of our members to familiarize themselves with this exclusive CRSI member resource and use the information is offers to assist in their marketing research and sales planning as well.

Survey Results Reveal Attitudes About Reinforced Concrete

A brief presentation at this year’s Fall Marketing Committee Session summarized results of recent attitude surveys conducted by CRSI. Market surveys conducted several times a year have become an efficient and reliable way to gauge opinion on a number of topics as we develop our promotional messaging. Our surveys reveal attitudes that inform what we need to communicate and how best to deliver that communication. The more we know about our audience’s perceptions the better prepared we are to influence them. From time to time we will share the results of these surveys with members – particularly when the survey explores satisfaction with industry products and/or services. Our most recent surveys asked respondents to rank highly valued reinforced concrete qualities. Results showed that, while most respondents
close association reinforced concrete durability and low maintenance, few used that perception to guide their choice of a structural system. Initial construction cost and schedule concerns in the selection process frequently outweigh – or totally ignore – durability and other long-term costs. Survey results revealed that this an important association we need to emphasize in our promotional and educational messaging.

**CRSI To Offer Blended Learning**

In recognition of important learning trends and the practical limits of our regional outreach we are leveraging distance-learning technology to greatly expand our promotional and educational reach. With the generous financial support of the CRSI Education and Research Foundation we’ve begun an intensive, six-month process developing digital courses from material our national marketing and regional management team have determined are most valuable in achieving our strategic goals. These courses will be delivered in three primary ways: from the CRSI website, broadcast as webinars and presented locally by region managers. Courses will be high quality, convenient and adaptable methods of communicating our educational messages. This new format allows access 24 hours a day, 7 days a week and can reach an audience more than 35 times larger than our present methods.

Additionally, course content is now developed as a peer-reviewed team exercise creating a uniform presentation suitable for audiences at any location. Marketing and Engineering Departments are working as collaborative partners in the development of all educational courses. Once updated, CRSI staff equipped with commonly available authoring tools can easily update courses. The Learning Management System (LMS) software chosen to host CRSI’s educational content has also recently been baptized by fire with the development of CRSI’s new Detailer Training Program (launching officially in January). With these resources in place Regional Managers will be able to focus on activities that better leverage their extensive experience and expertise. [insert course demo screen-shot]

**CRSI Website Improvements on the Way**

An essential component of our marketing communications and blended learning strategies is establishing our website as a must-have portal for solutions in steel reinforced concrete. To accomplish this we’ve undertaken a thorough review of our current website including site-use analytics and independent recommendations by consultants. Studies have demonstrated that there are key improvements that should be made to our site prior to launching our full suite of e-learning content. A complex development process is now underway with completion and re-launch of a newly re-envisioned website early in 2015. The new site will be far easier to navigate for our target audiences and will consolidate member-interest information into a members-only landing page. Prior to the re-launch, under the guidance of Dave Mounce, CRSI Director of Communications, we will introduce the new site to all our audiences – member and promotional – with an organized awareness campaign.

**Useful Market Data Report Links Available At CRSI.ORG**

Visiting the Members Only section of www.crsi.org and clicking the “Forecast and Usage Reports” link will take you to several credible resources for information related to the construction marketplace. From time to time we will feature different resources on our website – in the members-only section of course – as tools to enable our members to anticipate change and prepare for the road ahead.

- McGraw-Hill 2015 Construction Outlook
- McGraw-Hill SmartMarket Reports
- AIA Consensus Forecasts

**Three Good Reasons To Share Your Success Stories**

Hopefully we have all had the good fortune to be involved in highly successful projects – noteworthy because they leveraged steel reinforced concrete in some way to solve problems or make a project possible. When these opportunities present themselves it is very much in our members’ interest to share those success stories. Why, because:

1. These stories highlight the important contribution of your company to a successful project;
2. These stories create an awareness of steel reinforced concrete solutions that can be learned from – and copied – by others;
3. These stories provide an opportunity to strengthen the relationship between you and your customers as you bring attention to their successes.

CRSI is actively engaged in soliciting case studies (success stories) involving steel reinforced concrete solutions that will be highlighted in our educational materials. If you believe you may have a prospective success story to share please contact your region manager or Steve Hawkins today at shawkins@crsi.org.
Greater Southwestern Region
By John Turner, PE, Region Manager

An Annual Conference

The 2014 Greater Southwestern Region Annual Conference was held in Montgomery, Texas on October 2-4. Thirty-six members and guests enjoyed a couple days of fun and fellowship. The event kicked off with a CRSI Foundation fundraiser in the form of a sporting clays shoot. Eighteen participants spent Thursday afternoon in the woods around a small lake, testing their skills with a shotgun. The clear winner in this event was the Foundation, for which we raised funds to use in research and education programs. (I would say the runner-up was the clay "birds", most of which did not get harmed by the shooters.) The business meeting started Friday events, with presentations from CRSI President Bob Risser and region manager John Turner. The main speaker of the morning was Jesse Thompson from the Federal Reserve Bank of Dallas. According to Mr. Thompson, the Texas economy is on the upswing and several more quarters of slow to substantial growth are expected. He highlighted the difficulties in getting new development underway after the downturn, specifically because land development stalled for a period and has yet to catch up with needed residential growth. Along with the oil and gas boom and associated population surge, this has resulted in a very tight (expensive) housing market and increased labor cost. For Friday afternoon, the group split up to play golf or learn about wine.

Research Programs

Also during the quarter, CRSI staff and members worked with several universities on research programs. John Turner visited Texas Tech, Texas A&M, and the University of Texas to discuss research needs and objectives. CRSI members CMC and Nucor provided reinforcing steel for a new, NIST-funded project at Texas A&M into earthquake damage assessment and design. Multiple CRSI members also provided reinforcement to the University of Texas for ongoing research into seismic connections and low-cycle fatigue, both of which are funded in part by the CRSI Foundation and CRSI members. Ongoing research at Southern Methodist University into the behavior of steel reinforced concrete following partial structural collapse will reach physical modeling and testing during the spring. This work may lead to better design to retain structural integrity.

Identifying Commodity Buildings

Staff is currently working with several developers and designers in the region to identify and document “commodity” buildings in the target markets. We frequently highlight landmark projects - many of which receive CRSI Honors design awards - but the current effort is intended to help us find out why designers and owners choose concrete for more common buildings. Once these projects are identified and documented, we will use the information to refine the CRSI message. We often get questions about the economics of reinforced concrete and this program will directly address the “Why?” of what we have to offer designers, constructors, and owners.

2014 Presentations

John Turner presented at a number of national, state, and regional programs since the summer, including programs for the Tilt-up Concrete Association, the St Louis Concrete Council, and the Structural Engineers Association of New Mexico. During September, CRSI staffer Greg Halsted was in the region to present on continuously reinforced concrete pavement at the TxDOT/Cement Council of Texas Biennial Concrete Conference in Austin. We also participated in supporting events for SEA Arkansas and the Austin Foundation for Architecture.

John Turner continues to collect photographs and other materials to support a program he is doing at the 2015 World of Concrete. If you have images you think would be useful in a presentation to contractors about tying and supporting reinforcement, please contact John.
**Midwest Region**

*By Tony Johnson, PE*

**CRSI Heart of America Chapter Open House**

The rain and cold did not prevent a great turn out for a fabrication shop open house hosted by the CRSI Heart of America Chapter on Thursday October 9th. The event, held at Harris Rebar in Kansas City, was attended by over 50 local design and construction professionals in addition to 10 CRSI members. Attendees ranged across all aspects of the design and construction markets, including students, city officials, building owners, architects, structural engineers and contractors. This event generated a significant amount of good will for our industry and has provided many useful promotional leads.

The attendees enjoyed some good Kansas City barbeque, good conversation, and a guided tour of the Harris Rebar fabrication shop. A significant range of CRSI technical and promotional material was also available for further information.

**Construction Management & Structural Engineering Programs Visited in Fall Semester**

As the fall semester kicked off, Tony Johnson was invited to present to a variety of Universities across the Midwest Region, mostly in Construction Management related programs and to Civil Engineering Student associations. In early September, Tony was invited to speak to the senior level Reinforced Concrete Design class at the University of Pittsburgh. This presentation focused on efficiency in design of reinforced concrete and highlighted the application of the voided slab construction process.

In mid-October, Tony was the guest speaker for the ASCE Student Chapter at the University of Missouri at Rolla. The evening presentation was attended by over 100 students from freshmen to graduates and provided a fantastic opportunity to interact and educate a wide range of students on a variety of topics relating to reinforcing steel basics and efficiency in reinforced concrete design. Following the formal presentation, a long discussion was undertaken on the application of the voided slabs, and several students indicated an interest in incorporating the concept into senior design projects.

On October 20th, students studying civil engineering and construction management at the University of Cincinnati received a one hour guest lecture from CRSI. This presentation focused on efficient design and construction with reinforced concrete as well as tips for field inspection of reinforcing steel.

**Meetings with State DOT’s Review Specifications and Discuss Certification**

Over the past few months, Tony Johnson has visited with state DOT’s in Indiana, Michigan, Nebraska, South Dakota, Missouri and Illinois with several key objectives. In addition to building and maintaining relationships with the key contacts at the DOT’s, Tony also discussed current approaches undertaken for corrosion protection, performed a review of reinforcing bar, and discussed CRSI certification programs. Meetings will be held Ohio, Kentucky, Iowa, Kansas, Wisconsin and Minnesota in the coming months with similar objectives.

**St.Louis Concrete Council, Professional Engineers Seminar**

CRSI’s John Turner and Tony Johnson were invited to be speakers at the annual Professional Engineers Seminar hosted by the St.Louis Concrete Council on September 25th. The one day event brought together structural engineers, architects, city officials and inspection agencies from the greater St.Louis area for a day full of continuing education. John Turner presented a one hour program targeted at improving the efficiency of design, while Tony Johnson’s presentation highlighted the positive impacts of selecting a reinforced concrete building when evaluating sustainability and resilient construction impacts.

**Meetings Held to Identify Case Study Projects**

In support of CRSI’s initiative to highlight successful reinforced concrete projects in our three target markets, Tony Johnson recently met with Barton Malow and McHugh Construction to identify and scope out three outstanding projects. Each project identified was selected based on a variety of factors, but perhaps the most important was ability of the project to be replicated, in concept, in many geographic markets across the county. While each project carries its own unique character, the goal was not to highlight highly complex projects or ones specific to a particular site so that the lessons learned, and the relative simplicity of the projects could be applied to challenging perceptions on future conceptual projects.

**CRSI Midwest Region Fall Meeting Held in Indianapolis**

CRSI Members from across the Midwest Region, and beyond, met in Indianapolis in September for the Fall Regional Meeting. This year’s event, held at the Marriott Indianapolis Downtown, September 10th to 12th, drew 65 attendees for the three day event. Highlights of the 2014 meeting included a tour of the Lucas Oil Stadium in downtown Indianapolis, a presentation from the Indiana Department of Transportation, a business meeting, with CRSI updates, and two great golfing events.

The event began with the CRSI Foundation Golf Outing which was held at the historic Fort Golf Course. 10 brave golfers

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battled the weather and the challenging golf course and raised over $1,150 for the CRSI Education and Research Foundation.

After the foundation golf, a meeting of the Midwest Region advisory board was held followed by a sports bar themed opening reception and dinner.

On Thursday morning, the group toured the Lucas Oil Stadium, which was completed in 2008, and is constructed mostly of cast-in-place reinforced concrete (except for the retractable roof system.) Joining us on the tour were two structural engineers from the local firm, Fink Roberts & Petrie, Inc. Our local hosts, who were involved with both the initial design of the structure and were onsite during the construction phase of the project, were available to answer specific questions regarding the structure and to provide a more in-depth discussion regarding the design and construction process.

Following the stadium tour, the group headed out to the Brickyard Crossing Golf Course for the regional golf tournament. With four holes set inside the iconic Indianapolis Motor Speedway (The Brickyard), the course offered a unique and memorable experience. Congratulations to the winning team of Fred Fusak, Dave Lorenz, Paul Simmet and Fred Rocha.

Thursday dinner was held back at the hotel and we were honored to host Mr. John Weaver with the Indiana Department of Transportation as our speaker for the evening. Mr. Weaver provided an update on the transportation funding challenges facing not only the Indiana Department of Transportation, but all state DOT's across the country. He also provided an update on the major project across the state and presented a future vision for the DOT in the areas of tolling and public private partnerships.

The 2014 Midwest Fall Regional Meeting wrapped up on Friday morning with the official business meetings for both the newly formed Midwest Region, which included a review of the region finances and election of officers/board of direction. The group also took time during the Friday morning session to brainstorm issues relating to fabrication of high strength reinforcing steel, this was an engaging conversation and generated a significant number of items for further consideration. A national marketing, technical and leadership recap was presented by Bob Risser, and Tony Johnson wrapped up the meeting with an update on region marketing activities.

Please plan on joining the CRSI Midwest Region for 2015 Region Meeting next September in St. Louis.
Northeast Region
By Mike Mota, Ph.D., PE, FACI

North East Region Fall Business Conference Highlights

The Knickerbocker Chapter hosted the annual North East Region Fall Conference in Seaview, NJ on September 24 and 25. The Conference attracted approximately 70 members and guests. The two day event featured a Foundation Golf Outing, a business session followed by the Regional Golf Outing.

The business session included CRSI updates by Mike Mota, Steve Hawkins and Bob Risser. The main presentation discussed the East Side Access Tunnel currently under construction in New York City and was given by Jeff Maffei, Project Manager with Michels Corporation. The Convention was capped with a cocktail reception and dinner at Atlantic One in Atlantic City, NJ.

A special acknowledgement and thank you to the Knickerbocker Chapter Officers Don Fowler, Giacomo Abrusci, Zuzell Martins, Luca Abrusci and Justin Heald. Also a special thank you to Aiyana Lopez for organizing another successful event.

Upcoming Membership Events

Save a Date. The Knickerbocker Chapter Holiday luncheon hosted by the Limbardo Family will be held on Thursday, December 4 at the KCC located in Tenafly, NJ.

Supporting these events is critical and please remember that all net proceedings are used for local promotional and scholarship activities.

Upcoming Technical Events

Mike Mota will conduct two webinars broadcasted from NAM (National Association of Manufacturers) headquarters in Washington DC. The events include presentations on Voided Slabs – New Trends on December 17th and Vibrations of Reinforced Concrete Floor Systems on January 14, 2015.

Southeast Region
By David Pfannmiller, Region Manager

Regional Meeting

The Southeast Region Meeting on September 22 was attended by nearly 40 members. What a great turn out! The morning started off with Bob Risser, CRSI President/CEO, giving us an informative presentation about the effort CRSI is exerting at the national level. Steve Hawkins, CRSI Vice President of Marketing, followed Bob and explained the national marketing plan and how it affects the Southeast Region. Steve also elaborated on the E-Learning initiative that the CRSI Board of Directors recently approved.

When you listen to the messages Bob and Steve deliver, you get a sense of how far CRSI’s influence reaches in the Reinforced Concrete market. Every effort is focused on expanding the RC market. Our job is to take the marketing message to the street, engage in the decision making process and influence the outcome.

Dave Wilbanks, with Gerdau, gave us a fantastic shop safety presentation. He touched on a lot of common problems and was gracious enough to share how his company addresses them. Many valuable lessons came from this presentation.

Dates are already set for “sub region” meetings for next year and are as follows: Tuesday, February 17, 2015 in Orlando, Monday, April 20, 2015 in Charlotte, Friday, June 26, 2015 in Atlanta and Friday, September 25, 2015 in Nashville. Make plans now to attend one in your neck of the woods.

University Visits

The Southeast Region Advisory Board has agreed to support a Reinforced Concrete Sculpture project at the School of Architecture at Georgia Tech. On August 18, Mr. Pfannmiller met with Tristan Al-Haddad from the school and toured the lab where the 3-D printer is that will shape the forms out of polystyrene. Mr. Al-Haddad displayed numerous examples of what the printer can do and how it will be used to shape the formwork of the sculpture.

CRSI Honors Presentation

David Pfannmiller presented an honors award to SteelWorks Rebar Fabricators for their work on the Port of Miami Tunnel on September 11, 2014.
Western Region
By Greg Halsted, Region Manager

2014 Western Region Conference Visits “America’s Finest City”

The 2014 CRSI Western Region Conference went sunny San Diego on September 18 and 19 where it experienced both high attendance and excellent reviews. David Grundler with aSAs kicked off the afternoon Business Meeting with a dual presentation – an overview on the current status of Building Information Modeling (BIM) as it relates to reinforcing steel, and an update on the new and improved Detailer Training Program. Anticipated to be released in January 2015, this revamped computer-based training program is intended to help CRSI fabricator members attract, train, and retain efficient rebar detailers. The short afternoon session wrapped up with an informative presentation by Professor Jose Restrepo from the University of California at San Diego who explained to attendees how the University was progressing on its reinforcing steel research work. Actual footage of beams and columns under loading until failure kept everybody impressed as well as entertained.

This year’s Mill Sponsored Dinner was an MLB evening at Petco Park, where the hometown Padres squared off against their in-state rival Los Angeles Dodgers. The game was watched from a semi-private, enclosed area on the field level, which provided a great view of the action on the field from just outside the third base line. An all-you-can-eat buffet and open bar were included, thanks to our generous dinner sponsors: ArcelorMittal, Cascade Steel Rolling Mills, CMC Steel Arizona, Evraz North America, Gerdau, Nucor Steel Kingman, Nucor Steel Seattle, and Nucor Steel Utah.

Friday’s morning Business Meeting began with our keynote speaker, Garrison Wynn (Wynn Solutions). Mr. Wynn entertained and energized the group with his humorous yet insightful presentation “Making the Most of Difficult Situations: What the Most Influential Do Differently.” An award-winning speaker and author, known for his dynamic blend of original humor, customized content, and research into what the most successful people have in common, he soon had the crowd laughing with his observations on how we view our industry, products, and leadership styles, as well as those of our competitors. Remember – a pet dog is loyal only because he needs you to scratch him in places he can’t reach himself!

Having to revert to a more serious tone, the next speaker was Mark Perniconi from the Charles Pankow Foundation who spoke on “Integrating High Strength Steel Rebar into the ACI 318 Code - Bringing the Concrete Design Codes into the 21st Century.” Mr. Perniconi identified the challenges, including both time and money, which it will take for these code changes to take effect. He stated that the primary objective of the proposed work is to “prepare a detailed Road Map which specifically identifies the technical support required, whether it be the results of new research/testing or existing research findings, to effect updates of ACI 318 to allow the general use of reinforcing steel bars in excess of Grade 80.”

Up next was CRSI CEO Bob Risser who delivered the National Update / State of the Institute. After an overview of recent staff changes at both the National and Regional levels, Mr. Risser updated the membership on national marketing and technical activities as well as what’s happening with research under the CRSI Foundation and the most recent market forecasts from PCA. He was followed by Greg Halsted who gave a quick year in review and a look ahead for upcoming programs and Western Region direction. Not wanting to lose the momentum from the serious side to the morning’s business function, Risser and Halsted engaged those in attendance by holding a High Strength Reinforcing Steel Fabrication Forum. An informative discussion ensued where those present had their chance to have their voices heard on this important and fast moving issue.

After such serious discussions, the group was more than ready to cut loose and enjoy the beautiful San Diego weather. Once again, the CRSI Western Region Golf Tournament had a great turnout and witnessed some strong competition. This year’s winning team, with a score of 65, was John Auton (Nucor Steel), John Galli (Dextra America), Martin Gobin (Heritage Steel), and Michael Ugalde (ERICO). Not to be left behind, those who chose not to golf were treated to a 3-hour cruise of San Diego Bay aboard the catamaran Aolani.

The weather, food, drinks, and companionship made the sailing adventure one of the highlights of the Conference. Congratulations to Rita Gobin for being selected the group’s top sailor! Details for the 2015 Annual Conference are currently in the planning stages - details coming soon.

All Hands on Deck - Maintaining a State of Good Repair

From October 14 through 16, CRSI attended and exhibited at the 2014 Pacific Northwest Bridge Maintenance Conference held in Portland, OR. Over 400 local, state, federal, and other agency bridge owners, managers, designers, and inspectors involved in bridge maintenance attended the event, with most stopping by the CRSI exhibit table to discuss reinforced concrete in bridge applications and to pick up literature. One hot item at this Conference was the new CRSI publication Specialty and Corrosion-Resistant Steel Reinforcement: Product Guide.

The Conference, which had the largest attendance ever according to the event organizers, provided a forum to share cradle-to-grave bridge maintenance information, innovations, ideas, and best practices, as well as to promote technology transfer within the bridge maintenance community. Representatives from Western Coating joined CRSI in the booth to help answer questions regarding the use of epoxy-coated reinforcing steel in bridges.

CRSI HONORS Cary Kopczynski and Company

At an ACI Washington Chapter Dinner Meeting held on October 15, CRSI was given the floor to present Mr. Cary Kopczynski with two CRSI Honors Awards. Mr. Kopczynski is the Senior Principal and CEO of Cary Kopczynski and Company, a Bellevue, WA based structural engineering firm specializing in the design of major urban buildings throughout the United States and beyond. He is a recognized expert in the design of reinforced concrete and post-tensioned concrete structures, and a recipient of previous CRSI design awards over the years. Over 50 in attendance were on hand to help honor him this night. The first award was for the Noho III project in North Hollywood, CA.

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Western Region, continued

This project was recognized for its excellence in design by leveraging the inherent qualities of steel reinforced concrete to deliver ultra-long floor spans, enhanced thermal performance, adaptability, and remarkable construction economy for this Class-A office space. The second award was for the technical innovation Mr. Kopczynski employed on the Avalon Towers project in Bellevue, WA. He was recognized for design excellence through the innovative use of high-strength reinforcing and concrete resulting in a cost-effective response to demanding seismic design requirements and constructability concerns.

Many superb examples were submitted for these Honors awards. All entries were evaluated based on five primary criteria - aesthetic expression, functional excellence, design innovation, economy of construction, and engineering achievement. The winning projects were selected for clearly delivering excellence in design and for having achieved success above and beyond the expectations of the owner and the public. Congratulations again to Cary Kopczynski and Company for continuing to push the envelope in the design of reinforced concrete buildings!

Montana Engineers Gather to Discuss Reinforcing Steel

Once a year, more than a dozen engineering associations from across Montana meet in Helena for the Joint Engineers Conference (JEC) - an event for professionals working in the civil, mechanical, structural, and electrical disciplines. This year, more than 200 attendees and exhibitors participated from November 5 to 7 in approximately 70 different sessions that covered all aspects of the engineering profession. One of the last presentations of the Conference was given by CRSI's Greg Halsted on the topic of Reinforcing Options for Concrete Repair. 51 structural engineers were educated on the repair and rehabilitation of reinforced concrete elements, including the selection of what type of reinforcement to use depending on the project, the design requirements, and economics. The presentation discussed the strengths, coatings, availability, performance, and relative costs of the various reinforcing options available to engineers. Greg has now spoken four straight years at the JEC and organizers have already asked him to present again next year!

Reinforcing Relationships with Inspectors

The American Construction Inspectors Association (ACIA) has been advancing the construction inspection profession since 1954. For more than six decades, they have set the standards for knowledge and ethical conduct in the construction inspection field. ACIA is a network of construction inspectors and like-minded building professionals that offer an opportunity for cooperation in what can sometimes be a lonely profession. ACIA Inspectors are certified on different categories such as ICC, OSHPD, and DSA.

Jose was invited to speak at the upcoming ACIA Meetings of the Sacramento Chapter on December 10, the Los Angeles Basin Chapter on January 20, and the Coachella Valley Chapter on January 21, to address recent OSHPD, DSA, and commercial applications. Please let Jose know if you would like to join him at one of these Meetings in order to meet some OSHPD/DSA Inspectors and to hopefully minimize some of the misconceptions that can occur during the construction process.

Nevada Engineers “Rediscover Concrete”

The 12th Annual Nevada Infrastructure Concrete Conference (NICC) was held in Reno and Las Vegas, NV on November 18 and 20, respectively. With approximately 170 in attendance at Reno and another 130 attending in Las Vegas, the events highlighting the theme of “Rediscovering Concrete” were extremely well-received. The opening sessions of both dates featured updates from the Regional Transportation Commissions and highlighted one noteworthy concrete transportation project in the area. Other notable topics included best practices for drilled shafts, post-tensioning web cracking, and the design and construction of concrete overlays and low-volume road applications. CRSI’s Greg Halsted gave a presentation during the Pavements track on Continuously Reinforced Concrete Pavements (CRCP) that attracted 52 interested engineers in Reno and another 36 in Las Vegas. Many questions were asked and it is hoped that Nevada will join the list of states that have CRCP as a pavement option in their roadway toolbox.

As in year’s past, CRSI was one of the 14 sponsors of the Conference. Jose Mendoza and Greg Halsted also exhibited at both locations with many attendees stopping by the CRSI booth to discuss reinforced concrete topics and to pick up information, most notably the recent Technical Note on FAQs About Reinforcing Bars. At the end of each day, Greg was the invited “guest of honor” and ran the final question and answer session and the raffle prize event. Look for announcements on the 2015 NICC dates coming soon.

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University Lectures Continue to Make the Grade

CRSI can look back at another busy guest lecture season. Keeping in line with our strategic plan goals, we made every effort to give college and university presentations in nearly every state and province in the Western Region this fall term. CRSI offers many undergraduate- and graduate-level topics depending on the knowledge and educational track of the students. Our “Reinforcing 101” presentation continues to lead in popularity and is an excellent introduction on how reinforcing steel is produced, fabricated, and placed. Due to its high interest, this presentation is the first to be developed into an on-line tool via our e-learning efforts.

With well over 300 students in attendance, this semester’s guest lectures continued to highlight CRSI as a top resource for architecture, engineering, and construction management students. Through these presentations, it is our goal to have a lasting positive influence on future decisionmakers when it comes to reinforced concrete materials. As always, if you would like to join CRSI during one of our many lectures, check for upcoming dates in Rebar in Brief, as we’d like to have you along!

Join CRSI at World of Concrete 2015 and save!

Roll Up Your Sleeves at WOC 2015!

World of Concrete, the world’s largest convention dedicated to the concrete industry, will be held February 2-6, 2015 at the Las Vegas Convention Center. This will be the largest show in over six years with over 1,100 exhibitors. Come, roll up your sleeves and try your hand at the year’s newest products. This is a great opportunity to expand your business, catch up on the latest industry trends, and test new products under real-world conditions...and CRSI can help get you there!

Copy and paste the following into your browser for Reduced Registration & Seminar Fees for World of Concrete compliments of CRSI: http://www.worldofconcrete.com/Attendee/RegForm?SourceCode=A25

Please help us spread the word about using CRSI’s exclusive World of Concrete source code A25. The more registrants that use the A25 code means more money that World of Concrete gives back to CRSI.

What’s in it for the registrants?

Discounted exhibits-only admission and seminar rates, which breaks down as shown in the table below.

It’s a win-win! Please tell everyone and anyone; if they plan on attending World of Concrete to do themselves, and CSR, a favor...use A25 when registering.

Also, be sure not to miss the CRSI Cocktail Reception at the Westgate Las Vegas Resort & Casino from 5:30 to 7:30 p.m. on Tuesday, February 3. Invitations will be mailed as this is an invitation required event.

Visit CRSI at booth #N2827 for camaraderie and refreshments!

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NICC Presentation – “Greg Halsted addresses the crowd at NICC in Reno on the current level of acceptance of CRCP in the United States.”
Membership and Member Services Committee Meets at the FBTM
By Aiyana Lopez, Director of Member Services

Eleven members, nine guests and seven staff attended the Membership and Member Services Committee meeting on Wednesday, November 5 at the Swissotel in Chicago, Illinois. Highlights of the meeting are as follows:

1. Membership Status Review
- Chair Matt Schewe identified a net gain of one member since the spring ’14 meeting.
- Chair favorably noted the increase of Student Members from 92 in the fall of 2010 to 2,216 in the fall of 2014.

2. Interest Group Reports
- Independent Fabricators (IFIG): Andre Belland reported that the IFIG had met Tuesday, November 4th at 7:00 a.m. Primary topic of conversation revolved around a member’s only wage study that the IFIG will be putting together from input from the member companies.
- Epoxy (EIG): David McDonald reported:
  • EIG lost one member, Commercial Resins Company.
  • Steering Committee Status: Marcelo Acuna Jr. reinstated for another term. Sandra Goebbel with Valspar was also voted onto the Committee.
  • 2015 Budget was presented to the EIG and passed.

3. Safety Committee:
- John Turner, CRSI Staff, presented the outline of a new Safety Awards Program for CRSI Members based on data contained in the OSHA 300 logs. The purpose is to spark interest and visibility in the safety awards program. To ensure collected data will remain anonymous, the information is to be collected in-house by a CRSI employee. The Safety Committee will be charged with collection of this data through John Turner. Data will be requested of all members.
  • Requested data to include OSHA 300A Summary (same as posted in the workplace for employees to view).
  • Optional: If the individual members would like to consider employee populations separately, a breakdown by category of employee could be accommodated (i.e. placing only, fab only, or a combined group.)
  • Awards would be presented to all members who:
    • Have zero OSHA recordable incidents and have a DART rate (days away, restricted, or transferred) of 50% or below of industry average.

4. Old Business:
- Detailer Training Program Task Group met in June 2014
  • Decision was reached to maintain the organizations desire to offer to “fabricator members” only at no charge. This direction will be maintained for the first year, with additional discussion later.
    • When complete, an email will be sent to the member company designees outlining how to access the program.

5. New Business:
- World of Concrete Update: (specific to CRSI reception invites)
  - John Turner offered the idea of a New Members Kiosk at the CRSI reception
    • Provide space for a badge scanner
    • Lee Disbury offered that CRSI could also provide free handouts at the proposed Kiosk
  - Chair Schewe agreed with card badge scanning recommendation
    • Aiyana reminded members that admission to WOC is no longer free. Offered that the CRSI promotional code of “A25” is still available for discounted admission.
    • Next year’s meeting: the Peninsula Hotel downtown Chicago
      • Aiyana pleaded with members to book early, concerned that the room blocks will go fast and/or will not be held beyond the block date.
      • Room rates will be offered to CRSI Member Participants at $289 with standard reservations over $600.

CRSI Honors Jim Leib with Distinguished Service Award

In a well-deserved standing ovation during the Fall Business & Technical Meeting in Chicago, CRSI honored Jim Leib, aSa – Applied Systems Associates, Inc., for his many years of commitment and service to the Institute by awarding him the CRSI Distinguished Service Award. Mr. Leib’s son, Scott, provided a wonderful anecdotal speech honoring his father.

Congratulations, Jim, on the well deserved recognition of a Member who embodies the spirit of the Concrete Reinforcing Steel Institute.

Adopted by the Board of Directors in 2012, the award honors individuals or organizations for outstanding dedication, long-term commitment, participation and leadership in CRSI and the concrete reinforcing steel community. Nominations for the Distinguished Service Award can be submitted to CRSI by any active member. Nominations will be considered each summer by the CRSI Executive Committee.
Shop Talk
Spotlighting an active member/company within the Institute.

MEMBER STATISTICS

Name: Scott Rupard  
Company: Katy Steel Co. Inc.  
Location: Katy, TX  
Business Founded: 1974  
Joined CRSI: May 2007  
Number of Employees: 58

When was Katy Steel Co. Inc. launched? 1974

How were you introduced to the reinforced concrete construction industry? My dad got me a job with Austin Steel Co. in Houston in 1972 as a blueprint machine operator.

What inventory does your business carry? Reinforcing steel, wire mesh, accessories, threaded bars and couplers and flat bar bands.

What services does your business offer? Reinforcing steel fabrication, detailing, estimating, threading and welding.

Where do you see your business in 10 years? I will be almost 70, probably rolling around in a wheelchair taking orders!

What is your best business memory to date? Completing some of our shop additions.

How did you learn of CRSI? Marvin Rinn with SMI suggested that I attend a meeting.

If you attend CRSI events, can you describe a benefit of attendance? Learning about trends in the industry and more about what is going on, on a national level.

What value does CRSI membership bring to you? Knowledge of the industry and developing relationships. It has been great to have an outlet to communicate with other independent fabricators, especially during the recent great recession.

What advice would you give to a new CRSI member? Attend events, become involved and have fun!

Welcome New Members!

C.V. International Plastics Inc.  
Chateauguay, PQ, Canada  
President: Angelo Verelli  
Bar Support Manufacturer (Industry)  
(450) 698-1933

International Association of B-S-O & Reinforcing Iron Workers  
Washington D.C.  
President: Steve Parker  
National/International Labor Union or Ironworker Union Local (Associate)  
(202) 383-4800

Michels Corporation  
Mt. Vernon, NY  
President: Raymond Maffei  
Contractor (Associate)  
(914) 665-5444

Member Resources: Did You Know?

Did you know you can obtain a real-time, complete CRSI Member listing in the Members Only area of www.mycrsi.org?  
Once logged in, members can search by company by clicking the “Member Company Search” tab or by individual by clicking the “Individual Member Search” tab.
**SPRING TECHNICAL MEETING**

**CONFERENCE REGISTRATION**

*Online:* Visit [www.crsi.org](http://www.crsi.org) and click on the conference banner.

*Mail:* Complete the registration form and mail to CRSI.

**Early Registration Fees**

*Attendee:* $625  
*One Day:* $350  
*Spouse/Guest:* $100

*Early Registration Discount expires Monday, February 9, 2015.*

**Attendee List**

CRSI must receive your registration no later than two weeks prior to the meeting date to be listed in the pre-registration attendee list. An up-to-date list will be available in your registration packet.

**CRSI Cancellation Policy**

100% refund if cancellation is made on or before February 23, 2015.

50% refund if cancellation is made after February 23, 2015.

**WELCOME TO TEMPE**

A vibrant urban oasis in Metropolitan Phoenix, Tempe exudes its own personality. Refreshingly offbeat, Tempe is a fun town that hosts festivals, welcomes outdoor activities and is the proud home of Arizona State University. Tempe cares about community, stresses an active lifestyle and emphasizes a laid-back atmosphere. Here, you’ll find the sports you love, the shopping you crave, the culture you enjoy, the food you’ll want to share, and hospitality worth your next update on Facebook.

For more information, visit http://www.tempetourism.com/.

**MARCH 10—12, 2015**

**GROUNDS TRANSPORTATION**

The Tempe Mission Palms Hotel offers complimentary transportation between the hotel and Sky Harbor International Airport. Shuttle service is available between 5:30am and 10:30pm.

**Taxi:**  
Approximately $15 from the airport.

**Light Rail (Valley Metro):**

Take the free airport shuttle to the 44th St./Washington Station. Catch the eastbound train to the Mill Ave./Third St. Station in Tempe. The hotel is a two-block walk southeast of the station.

**CRSI STATEMENT OF POLICY**

For many years, CRSI has steadfastly adhered to a policy that prohibits privately sponsored activities contrived to exclusively serve proprietary interests (i.e., equipment demonstrations, closed cocktail parties, etc.) at CRSI meetings or which compete with CRSI functions. For clarifications, the purpose of the policy is two-fold:

- To discourage privately sponsored endeavors, or “splinter groups” that dilute effectiveness of CRSI activities planned to serve the best interests of all member people in attendance there-by preserving the integrity of CRSI meetings.

- To consistently maintain an environment that promotes equal opportunity for all concerned precluding unfair advantage of any individual or single firm.

**HOTEL INFORMATION**

Tempe Mission Palms Hotel  
60 East Fifth Street  
Tempe, AZ 85281

The Tempe Mission Palms Hotel specializes in fostering a professional and comfortable atmosphere for business travelers. Located in downtown Tempe, conveniently ten minutes from the Phoenix Sky Harbor International Airport and all major Phoenix and Scottsdale highways, the Tempe Mission Palms hotel makes business trips more enjoyable and productive.

*Online:* [CLICK HERE] Or visit www.crsi.org and click on the conference banner.

**Phone:** (800) 547-8705  
Be sure to mention “CRSI” to receive the discounted rate.

**Cut Off Date: February 9, 2015**

*Reservations received after February 9 will be on a first-come, first-served basis and group rate cannot be guaranteed.*

**Room Rate:** $190 (plus taxes)

In addition to the $190 room rate, there will be a daily hospitality fee, which is $10.95 per room, per night, which includes airport transportation, wireless high speed internet access in guestrooms, local and toll-free telephone calls, incoming fax service, daily news- paper delivery, in-room coffee service, valet and self parking, and access to the fitness center.

Check-in time is 3:00 p.m.  
Check-out time is Noon.
Find the Value in Sponsorship!

Please help in making the 2015 STM a super special one by opting to be a sponsor. In addition to aiding our efforts to pull off a great meeting, your company will be showcased by being a sponsor. Your company name will appear on the sponsorship page in the program, badges will have a “sponsor” ribbon displayed for attending Members to recognize and signage will be prominently positioned throughout the meeting.
FBTM Technical Meeting Highlights
By The Engineering Staff

Detailer Training Program (DTP)

The new web-based DTP was unveiled during the Opening Session lunch at the FBTM. The presentation was given by Dave Grundler of aSa who was in charge of the Detailing Task Group that worked on the program.

The program has several new features including new html content that allows accessibility via the web. The program is currently under beta testing and will be available in early January of 2015. An email will be sent by Aiyana Lopez to Fabricators at the beginning of 2015 with accessibility information.

High Strength - Grade 100

The ATC-115 Research Road Map 95% draft is complete and is available for download (http://www.pankowfoundation.org/grants.cfm). The report identified numerous research projects that have to be completed in order to develop ACI 318 code provisions for the use of high strength, Grade 100 reinforcing bars for non-seismic and seismic applications.

Several meetings were held over the summer at CRSI’s headquarters in Schaumburg between ATC 115, The Charles Pankow Foundation, CRSI staff and members to coordinate production, fabrication and placement issues for both steel reinforcement as well as couplers and end anchors. The report was made available to the CRSI Task Group of Material Properties Committee working on developing Grade 100 (A615- General Use) and Grade 100 ductile. The Task Group is currently evaluating the report, specifically Chapter 2 that deals with Production, Fabrication and Construction (Placement) issues. Also, a Task Group of the Anchorages and Splices Committee is evaluating the report. CRSI staff and producers are also currently coordinating efforts in ASTM sub-committee A01.05 for implementation of Grade 100 into ASTM A615. It is expected that adoption will take place in 2015.

Engineering Practice Committees (EPC)

Durability Committee

Thank you to the EPC Steering Committee for providing guidance on several issues related to Durability committee work/documents. The guidance surrounded the inclusion of safety references within their documents as well as the definition of a term to describe ASTM A615, A706, and A994 reinforcing steels. The committee has some work to do based on the discussions.

Manual of Standard Practice Committee

The main project for the Committee concerns the future of the Manual of Standard Practice. The aim was initially to convert the entire Manual into mandatory Standards and non-mandatory Guides, but it seems this may have been too ambitious. In this new light, future plans for the Manual are to prepare 5 CRSI Standards:

- Reinforcement Supports Standard based on Chapter 3 (done!)
- Reinforcing Bar Detailing Standard, based on Chapter 6. To be developed by the Reinforcing Bar Detailing Committee
- Reinforcing Bar Fabricating Standard, based on Chapter 7. To be developed by the Reinforcing Bar Fabricating Committee.
- First Bar Location Standard, based on Appendix C. Draft partially completed by MSP TG headed by Pete Zdziebloki.
- Reinforcing Bar Estimating Standard, which would be developed by the Detailing Committee.

Dave Grundler also raised the possibility of a Reinforcing Bar Estimating Standard, which would be developed by the Detailing Committee.

With the current supply of Manuals set to run out in about a year, it was the consensus of the Committee that next year we should concentrate on preparing the next (29th) edition. Plans are to publish the Manual in a three-ring binder, which would facilitate replacing chapters with new Standards and Guides as they are developed.

It was noted that one important step needs to be added to the development of each Standard: formal approval to begin working on the Standard needs to be sought from the Standards Development Committee.

Robbie Hall reported that the ballot for the Bending Bar Document did not pass (not enough returns). The draft will be revised as per the comments received and it will be re-balloted by the Reinforcing Bars Fabricating Committee. The draft will also include revisions to the hook tables and typical bar bend illustrations, as per revisions in the ACI 318-14 Code.

Placing Reinforcing Bars Committee

Chair Stowers reported that a draft Placing Reinforcing Bars Standard (based on Chapter 8 of the Manual of Standard Prac-

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FBTM Technical Meeting Highlights, continued

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tice) has been prepared. It will be forwarded to Liaison Felder for a quick review and will then be balloted as soon as possible, with all comments to be discussed at the next Committee meeting.

Greg Halsted reported that balloting for the Canadian Placing Reinforcing Bars book has been completed and the new publication will be released as soon as possible. The new publication Field Inspection of Reinforcing Bars has been printed. All Committee members will receive a complimentary copy. This new publication will replace the current CRSI Field Inspection of Rebar and also presents the bar marking information that was shown in the old Field Inspection Guide.

The Committee discussed the ATC 115 Roadmap Report for adding high-strength reinforcing bars (over Grade 80) into the ACI 318 Code and the proposed ASTM ballot of adding Grade 100 to A615. Committee members will be sent a copy of Chapter 2 of the ATC report for review, which covers construction issues. The general consensus of the Committee was that Grade 100 could present special challenges, such as wear and tear on machinery and limits on field bending.

Reinforcement Anchorages and Splices Committee

The main agenda items for the Committee concerned plans for the next edition of Reinforcing Bars: Anchorages and Splices and the High-Strength TG.

Robbie Hall led discussion of the ideas his TG had prepared for the next edition of the Splice Book. Some of the ideas included:
• Expand concrete cover to 3 and 4 inches.
• Add Tables for Grades 75, 80, 100 and 120 or list multipliers for these non-60 Grades.
• More clearly mark the various tables.
• Fold in Technical Notes on Mechanical Splices FAQ, Headed Bars FAQ, Staggered Splices and Development Length Calculations.
• Cheat sheets and details for application of Table Notes.
• Lap cards
• Include a copy of DEVLAP on a CD with the Splice Book or put it on the CRSI website.

Plans are for the TG to survey the CRSI Region Managers and the entire Committee to help prioritize the list of suggested changes and for any additional ideas.

Task Group head Lou Colarusso led discussion on the impact of high-strength reinforcing bars on lap, mechanical and welded splices. The TG had met earlier and had discussed the ATC 115 Roadmap Report for adding high-strength reinforcing bars to the ACI 318 Code. The TG will be reviewing part of the Report and will be submitting their comments to Mike Mota.

Reinforcing Bar Detailing Committee

Chair David Grundler reported that balloting of the new (5th) edition of Reinforcing Bar Detailing has been completed and the updated publication will be released soon. The Chair thanked everyone on the Committee for their hard work in completing the new edition. As with the current edition, the new edition will be bound in a three-ring binder, but will also include a CD containing the entire publication.

The Chair also reported that, with the completion of the new detailing textbook, the Standard TG will now be able to concentrate on the preparation of the Reinforcing Bar Detailing Standard and the First Bar Location Standard (based on the Manual of Standard Practice, Chapter 6 and Appendix C, respectively). It was noted that the new CRSI Committee, Reinforcing Bar Fabricating, will be responsible for developing the Reinforcing Bar Fabricating Standard. Chair David Grundler reported that the new Reinforcing Bar Fabricating Committee will also be responsible for developing the Bending Bar Document that was drafted by a Manual of Standard Practice Committee TG.

Chair David Grundler reported on the progress being made in converting the DVD Detailer Training Program to a web platform. The targeted release date for the Program is January 1, 2015.

Sustainability Committee

The Sustainability Committee is working with Emily Lorenz (consultant) to coordinate the development of an industry wide Product Category Rule (PCR) for steel reinforcement. The PCR will also include other steel products.

As reported by Emily during a presentation to the committee, the PCR as it stands is based on a European Standard, modified to suit construction practices in North America. The public period comment has closed and the document is under review by a peer review committee. The CRSI Board has approved an additional up to $10,000 to coordinate and resolve any comments from the peer review, if any. It is anticipated that the PCR will be available sometime next year.

Epoxy Fabrication Committee

The committee discussed potential changes to the new standard for fabrication of epoxy coated reinforcing steel. They also voted to provide a recommendation to the IMCC regarding critical inspection criteria.

Epoxy Plant Committee

The committee discussed potential changes to the new standard for straight bar lines, as well as ballot comments from the Standards Committee on the custom coating lines standard. They also voted to provide a recommendation to the IMCC regarding critical inspection criteria.

Independent Manufacturers Certification Committee (IMCC)

2015 certification dues were presented to the Board during the FBTM and will be communicated to certified plants in December. Transition of the CRSI certification programs from the 12th edition of the certification manual to the new CRSI standards is well underway with the submission of plant quality manuals for review.

Certification Committee

Certified coating plants will receive information about 2015 dues in December and their 2015 certificates in early January. Please watch your mail for the certificate and other important program information.

Design Aids and Codes Committee

DA&C will be devoting major efforts in

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FBTM Technical Meeting Highlights, continued

From Page 17

the next year to reinvigorating the CRSI Design Handbook.

This action is based upon feedback from CRSI Regional Managers that practicing engineers still use parts of the CRSI Design Handbook.

A new approach will be used to reduce the size of the CRSI Design Handbook by making “modules” on the most used topics in past issues of the CRSI Design Handbook.

Modules already completed are as follows:

- Square footings
- Vibration design guide
- Retaining walls
- Voided slabs

New modules are planned for:

- Pile caps – based on CRSI sponsored research at the Citadel
- Columns – reduced number of tables for square, rectangular, and maybe circular columns
- One-way and two-way floor slabs but reduces number of tables concentrating on those bay sizes that are most frequently used and economical
- Prepare a CRSI Tech note on the nomenclature associated with the new descriptions of the stress-strain properties of steel reinforcing bars

Reinforcing Bar Fabricating Committee

The first item of business for the newly formed CRSI Fabrication Committee was to approve the membership applications for the committee, and to report that these applications were within the balance requirements of the CRSI Technical Committee Manual. A review and discussion of the committees Statement of Purpose was undertaken with no major changes suggested. Robbie Hall presented on the status of the MSP Task Group on Bending, with a review of the current document; it was agreed that once the Task Group was complete with changes stemming from the recent release of ACI 318-14, that the document would become the responsibility of the Fabrication Committee and will be balloted by the committee. Tony Felder reported on the changes in the ACI 318-14 code which will impact fabrication. A draft document titled “Standard Practice for Stainless Steel Reinforcing Bar Fabrication Facilities” was presented to the committee and Pete Fosnough motioned for the formation of a Task Group to review the document; this Task Group was formed and has been tasked with an expeditious review of the document. A brief review of the recently issues ATC 115 report was undertaken, specifically relating to Chapter 2 of the document. All comments were to be submitted to Mike Mota for incorporation into a consolidated CRSI response. Finally, a discussion on the measurement of bend radii was held, which resulted in a motion from Dennis Hunter to form a Task Group to study the impact of the “J” dimension to fabricating bends. The Task Group was formed and has been charged with this task.

Research and Development Committee

Review and recommend for approval by the Foundation Board research on high strength reinforcement diameters to be conducted at UT Austin Texas in 2015.

Material Properties and Bar Producers Committee

The primary items of discussion at the recent meeting of the CRSI Material Properties and Bar Producers Committee related to high strength reinforcement steel. WJE’s Conrad Paulson led a discussion on the development of a new “High-Strength Ductile” reinforcing bar specification. Many comments from members had been received and incorporated into the development of this specification. Specific items of discussion related to the bar marking requirements (steel type and grade) as well as weldability requirements, inclusion of coiled rebar into the specification, and measurement of elongation using the uniform elongation method. Conrad also presented a timeline for the inclusion of both the ASTM A615 Grade 100 and the new “High-Strength Ductile” specifications into both the ASTM and ACI documents. Other items of discussion included a review of the recent ASTM ballot items which were to be reviewed at the upcoming ASTM meeting in New Orleans, a report from the Mill Database Subcommittee and a discussion relating to the gauge length for testing coiled reinforcing bars using the 4d requirement.

Mill Database Subcommittee

A short meeting of the Mill Database Subcommittee reviewed the requests for data approved and issued since the last meeting of the subcommittee. A discussion relating to the format of the Annual Report of the Mill Database resulted in the request to add T/Y ratio to the report format and then issue the Final version of the report to the members of the subcommittee. A discussion on the timeline for submission of 2014 data was undertaken, with a reminder that all data needs to be submitted by January so that validation issues can be resolved and reports can be generated several weeks before the upcoming CRSI Spring Technical Meeting. Finally the group requested that the database be modified slightly to include the submission of Uniform Elongation data including the ability to capture the method used to calculate the Uniform Elongation. Tony Johnson will work with the database consultant to incorporate these changes.

Transportation Committee

The Transportation Committee met for the first time in a year at the 2014 CRSI Fall Business and Technical Meetings under the new direction of Chair John Hema (CMC). The composition of Committee members has changed substantially but is still well-represented by many CRSI member companies. Items discussed included an update of the status of the new FHWA-CRSI Cooperative Agreement on continuously reinforced concrete pavements (CRCP), the involvement with NCBC, AASHTO, and NTPEP regarding bridges and materials, an explanation of the two Epoxy Certification Programs, the outlook for a comprehensive Federal highway bill, and the opportunities for transportation issues in the CRSI national marketing initiatives. For detailed information on this Transportation Committee Meeting, please visit Committee Central to view copies of the Agenda and Minutes.
ASTM in New Orleans Recap

By Anthony Felder, PE, Technical Director

ASTM Subcommittee A01.05 Meeting

Subcommittee A01.05 on Steel Reinforcement met on November 10-13 in New Orleans, Louisiana during the ASTM Committee Week Meetings. The main agenda item was to resolve the negatives and comments on the various items contained in the 3 ballots issued since the last meeting. Results of some of the ballots follow:

A615, Carbon-Steel Reinforcing Bars
The ballot to add Grade 100 to A615 received four Negatives and eight Comments. A cautionary Note was prepared to address the negatives and the proposal will be reballoted concurrently by both the A01.05 Subcommittee and the A01 Committee. The Note, which is not mandatory, reads as follows:

“Note X—Grade 100 [690] reinforcement was introduced in this specification in 2015. In contrast to the lower grades, which have ratios of specified tensile strength to specified yield strength that range from 1.31 to 1.5, Grade 100 [690] bars have a ratio of specified tensile strength to specified yield strength of 1.15. Designers should be aware that there will, therefore, be a lower margin of safety and reduced warning of failure following yielding when Grade 100 [690] bars are used in structural members where strength is governed by the tensile strength of the reinforcement, primarily beams and slabs. If this is of concern, the purchaser has the option of specifying a minimum ratio of tensile strength to actual yield strength. Building codes such as ACI 318 may not recognize Grade 100 [690] reinforcement: therefore the 125% of specified yield strength requirements in tension and compression are not applicable. Mechanical and welded splices should meet a minimum specified tensile strength of 115,000 psi [790 MPa].”

A775, Epoxy-Coated Reinforcing Bars
A new requirement for edge coverage was added to Appendix A2, based on the ASTM D3963 specification. The proposal will be forwarded to main Committee ballot.

A996, Rail-Steel and Axle-Steel Reinforcing Bars
A proposal to add bar sizes #9, #10 and #11 for axle-steel bars passed. The range of sizes for rail-steel bars will remain at #3 through #8. A new standard will soon be issued.

A1035, Low-Carbon, Chromium Reinforcing Bars
Bend tests of #14 and #18 bars were made optional, as determined by the Purchaser. A new standard will soon be issued. A proposal to add two additional types of bar, (“CL” and “CM”), which would have a lower chromium content than the current bar (designated type “CS”), passed a Subcommittee ballot and will be forwarded to a main Committee ballot.

New Specification for Zinc-Coated (Continuous Hot-Dip) Reinforcing Bars
A continuous process was developed to zinc coat reinforcing bars. This proposed specification describes the product requirements, including bend test requirements that match the reinforcing bar bend test requirements. The proposal will be revised as per comments received and will be reballoted.

By Danielle Kleinhans, PhD, PE, Structural/Transportation Engineer

Bridges/Transportation Update

National Concrete Bridge Council
Representatives for the National Concrete Bridge Council (NCBC) assembled on November 11th-13th in Washington, D.C. to discuss issues of importance to the concrete bridge industry and coordination with the Federal Highway Administration (FHWA) and, for the second year, the American Association of State Highway and Transportation Officials (AASHTO). Topics of discussion included material specifications, certification, accelerated bridge construction, and upcoming conferences. The second day of the meeting was held with FHWA representatives to facilitate coordination and the third day of the meeting was held with AASHTO Staff to open a dialogue of collaboration. Danielle Kleinhans serves as chair of this council.

Contact Tony Felder at afelder@crsi.org.
Epoxy Interest Group
By David McDonald, PhD, PE, FACI; Managing Director

In September, EIG exhibited at the PCI Bridge Meeting in Washington D.C. The meeting was attended by over 1,100 people, including a wide number of DOT staff and design engineers.

Also in September, EIG attended the National Concrete Consortium meeting in Omaha, NE. This meeting had a session on the recently formed Dowel Bar Task Group, of which Dr. McDonald is a member.

In October, EIG had a booth at the North Eastern States’ Materials Engineers Association (NESMEA). Approximately 100 people were at the meeting, with the majority from DOTs in the New England region.

Also in October, EIG participated at the ACI meeting in Washington D.C. Dr. David McDonald chaired a technical session on Service-Life Modeling – Case Studies and Validation.

Carrie Sayers from ABC Michigan and Jim Henson from Leader Graphics assisted with a booth at the ASBI meeting, in October. The meeting attracted 330 attendees, including DOTs and most of the major bridge engineers in the country. The conference program also included a visit to the Pearl Harbor Memorial Bridge in New Haven, CT, which extensively utilizes epoxy-coated reinforcing steel (See http://tinyurl.com/llk9lq4 ). Many thanks are extended to Carrie and Jim for their valuable help.

Finally, in November, EIG was present at the ASTM meeting, held in New Orleans. Dr. McDonald is secretary for ASTM A1.05.04 Coated Reinforcement. Current ballots were discussed and additional ballot items were resolved relating to epoxy and galvanized reinforcing steel.

EIG recently published a new report titled Summary Report: Corrosion Resistant Reinforcing Steel in Concrete, which summarizes work from the University of Utah. It states: “The data suggest that even improperly handled and placed epoxy-coated reinforcing steel is the superior choice for designers looking to achieve 100-year life cycles.” A summary of the report is available on the EIG website.

An article written by Dr. McDonald, “Current Status of Coated Steel” was presented in the November 2014 issue of Structure Magazine. This article covers Epoxy-coated, Galvanized, Dual-coated and Vinyl-coated reinforcing. This article may be viewed at: http://www.structuremag.org/wp-content/uploads/2014/10/C-InSights-McDonald-Nov141.pdf

Additional project profiles have also been collected and are available on the EIG website at www.epoxyinterestgroup.org these are:

- Blennerhassett Bridge, OH/WV
- Craigflower Bridge, BC
- Dresbach Bridge, MN/WI
- Frost Museum of Science, Miami, FL
- Henley Bridge, TN
- I-65/I-70 South Split, Indiana
- Provo Temple, UT
- South Park Bridge, WA
- Willapa Bridge, WA
- Yanbu Power Station, Saudi

Please let EIG know if you have projects that you would like featured.

Publications and Technical Seminars
By Mike Mota, Ph.D., PE, FACI, Vice President of Engineering

Two new technical design guides (voided slabs and vibrations of concrete floor systems) are available for purchase at the CRSI webstore.

Mike Mota and Dave Fanella, co-authors of the new CRSI Design Guide on Vibrations of Concrete Floor Systems conducted a half-day pilot seminar for the Structural Engineering Association of Illinois held in Chicago.

If you would like additional information on the above, please contact Mike Mota at mmota@crsi.org, Danielle Kleinhans at dkleinhans@crsi.org or Tony Felder at afelder@crsi.org.

Save the Date: EIG/IDOT Training Day

EIG and the Illinois Department of Transportation will host a joint training day for epoxy-coating of reinforcing steel on February 19th in Springfield, IL. Please note that IDOT requires this training on an annual basis to remain on its Qualified Products List for epoxy-coated steel reinforcement. Complete registration information will be distributed shortly.

Mike Mota and Dave Fanella team up on a presentation held in Chicago.
2014 ACI Highlights
By The Engineering Staff

Committee 222 – Corrosion

The Committee discussed collaboration between ACI, NACE and CRSI regarding issues of corrosion of reinforcing steel. David McDonald provided a summary at the meeting regarding CRSI activities. The collaboration will continue to be a topic of discussion at future meetings.

ACI/CRSI Committee 315, Details of Concrete Reinforcement

New Committee 315 Chairman Dick Birley (Condor Rebar Consultants) opened the meeting on Sunday afternoon in our nation’s capital. The main activities of the Committee concern reviewing the sample structural drawings in ACI Design Manual SP-17, the future development of a Guide which replaces the 315 Standard, and the continued development of Committee Forums and Detailing Corner articles for Concrete International.

The review of SP-17 drawings has temporarily been put on hold by ACI, until next year.

The Committee spent most of the meeting discussing the scope of the Guide and the consensus was that the Guide would serve as a supplement to the reinforcement detail requirements of the ACI Building Code, to both illustrate the requirements of 318 and to offer specific details that would satisfy the Code. The intended audience of the document are the main users of 318: the Licensed Design Professional. The Committee concurred that any documents intended for the Detailer or Fabricator should be prepared by CRSI. Aided by Vice-Chair Robbie Hall (Gerdau), a proposed scope of responsibilities of the Committee, as well as various notes on the proposed Guide, which was forwarded to CRSI for discussion at its Fall Business and Technical Meeting in Chicago.

As was reported in last meeting’s minutes, Subcommittee B has been discontinued and its activities will be absorbed by the main Committee, which will continue the development of Committee Forums and Detailing Corner articles for Concrete International magazine. With the work on the Guide, and the impending need to review the example structural drawings of SP-17, the Committee agreed to hold any further development of Forums and Detailing Corner articles until the next meeting in Kansas City in April 2015.

Committee 318 – Building Code

Mike Mota has been appointed a full voting member of ACI 318 as well as ACI 318 sub B (Anchorage and Reinforcement) and sub R (High Strength). The Committee had its opening meeting during the Washington DC Convention. As outlined by Jack Moehle (UC Berkeley), Chair of ACI 318, the overarching objective for this code cycle (2019) will be to implement the use of high strength reinforcing steel. To achieve that goal the following steps have been identified:

- Allow use of A706 Grade 80 for seismic design as part of a 318 supplement in 2016/17.
- Allow use of A615 Grade 100 for general purpose by ACI 318-2019 Code
- Allow use of new ASTM specification AZZZ (TBD) for seismic design into ACI 318-2023 Code.

ACI/ASCE Committee 408, Bond and Development of Steel Reinforcement

Committee 408 is updating its flagship publication, Bond and Development of Straight Reinforcing Bars in Tension (ACI 408R-03), which provides the basis of the straight bar tension development requirements in Chapter 12 of the ACI 318 Code. Tony Felder heads the TG charged with updating Chapter 3, Descriptive Equations. Professor David Darwin also gave a progress report on KU’s research on hooked and headed high-strength reinforcing bars.

ACI Committee 439, Steel Reinforcement

During the summer, the Committee had issued two ballots, one being the latest draft of the proposed report Guide to Welded Wire Reinforcement, and the other being a proposed update of the ITG-6 document Design Guide for the Use of ASTM A1035/A1035M Grade 100 (690) Steel Bars for Structural Concrete. Both ballots had received Negatives and the meeting was spent preparing responses. Plans are to pass the WWR report to TAC for review and to re-ballot the revised ITG-6 report.

Committee 440 – Fiber-Reinforced Polymer Reinforcement

The Committee has established a task group to begin the process of development of a code document in mandatory language for FRP-reinforced Concrete Internal Reinforcement. This will be a dependent code based on ACI 318-14, which means it must conform to the 318-14 chapters. They have established a timeline for the work to provide a finished document to TAC early in the spring of 2018.

ACI Young Member Award

CRSI’s very own transportation engineer, Danielle Kleinhans, has been selected to receive the ACI Young Member Award for Professional Achievement. This honor was bestowed by the ACI Board of Directors at its fall 2014 meeting specifically for contributions to the design and use of concrete in bridges, serving as a liaison with concrete industry institutes, and for her service on ACI technical committees. A formal announcement of Danielle’s selection will be made at the Opening Session and Awards Program, Sunday, April 12, 2015, from 5:45 p.m. until 7:00 p.m. at the Marriott and Kansas City Convention Center, Kansas City, MO.
Foundation Board Approves Research and Scholarships; Discusses Strategic Plan and Fundraising Campaign

The CRSI Education and Research Foundation Board of Directors met in Chicago during the CRSI Business and Technical Meeting. John Jardine of Re-Steel was elected to the Foundation Board. Connie Macolino with Puget Sound Steel was elected fundraising committee chair.

The Board approved seventeen (17) undergraduate scholarships as follows:

- Six dedicated scholarships at Lehigh University, University of Illinois, Purdue University, NC State University, University of Texas at Austin and UC San Diego
- One Employee and Industry scholarship at NCSU
- Five undergraduate scholarships at Syracuse U., Florida International U., U of Wisconsin at Madison, UC San Diego and Arizona State University
- Five regional scholarships as a 50/50 matching funds with CRSI Chapters as follows:
  - Worcester Polytechnic University (Pilgrim Chapter, NE Region)
  - University of Wisconsin (Pioneer Chapter), University of Minnesota (Viking Chapter), University of Cincinnati (Midwest Region)
  - University of Washington (Pacific Northwest Chapter, Western Region)

The Board also approved one $30,000 Research Fellowship for 2015 to conduct research at University of Texas at Austin to assess fabrication bend diameters for high strength steel reinforcement. The research will start in early 2015 and is part of the ATC 115 Research Road Map for High Strength Steel Reinforcement.

The Board reviewed the current research project to assess current ACI bend diameters at North Carolina State University. The project has been completed and is under review by the R&D Committee of CRSI. Preliminary findings indicate that the current bend diameters established in the 1950’s remain acceptable.

The CRSI Foundation has been leveraging research dollars for the past six years at a 4.4 ratio. Total research dollars leveraged to date are approximately $2,025,900 with Foundation expenditures at $465,000.

The Board also approved a deficit budget for 2015 and discussed future funding of Foundation programs. Earlier in the fall, the Foundation Board agreed to fund the CRSI e-learning project for $248,000, approximately 10% of its assets, since the project is consistent with the Foundation education mission. The Foundation West Coast and East Coast Golf Outing fundraisers earned $57,000 for the Foundation in 2014. The events will be repeated in 2015 in June with dates to be determined.

The meeting also included a presentation made by a fund raising firm, Pursuant-Ketcham. As a result of the presentation, the Board voted to move forward with requesting proposals for a formal fundraising campaign that will include strategic planning and an assessment of fundraising potential.

Foundation Board meets at the FBTM

By Mike Mota, Ph.D., PE, FACI

Field Inspection of Reinforcing Bars

Field Guide
76 pp.; First Edition

This all new Guide provides an overview of the placing of reinforcing bars. Topics include material inspection, installed reinforcing bar tolerances, visual inspection of installed rebar and more. Includes bar fabrication information such as bar sizes, hook details, an illustrated compilation of bar markings and more. The guide can be used in conjunction with the Placing Reinforcing Bars publications or as a stand-alone product.

The Field Inspection of Reinforcing Bars is printed on “waterproof” paper and uses a sturdy metal coil binding for durability.

Member Price: $14.95 Non-Member Price: $24.95

For more information or to order your copy, visit www.crsi-webstore.org now!
Goverment Affairs Committee Update

By Barbara Burchett, Government Affairs Representative

At CRSI’s fall business meeting, the Government Affairs Committee (GAC), chaired by Ray Bauer of CMC, reviewed activities of the past months advocating for congressional action on the Highway Trust Fund solvency as well as reauthorization of surface transportation programs. The Committee discussed the status of the temporary “patch” for extended funding through next May and the possibility of Congress addressing a long-term funding solution as soon as possible. To encourage congressional attention, CRSI sent a letter to congressional leadership (the letter can be viewed on the Government Affairs page on the CRSI website.)

The newly established CRSI Political Action Committee, “RebarPAC”, established its Steering Committee and will develop a plan to make our positions known at upcoming fundraisers in Washington D.C. and to participate in important political organizational events. Ray Bauer of CMC is the chair of the committee.

The GAC urged CRSI Members to stay involved in government affairs by joining the committee or to be on the email distribution list. Several new company members have signed on since the fall meeting. We discussed participation in the Transportation Construction Coalition “Fly-in” next April 14-15 in Washington, D.C. This is a great opportunity to meet your members of congress and to make the case for transportation reauthorization and funding, in addition to other issues important to your company. Your U.S. Representatives and Senators need to hear from you. Please save the date! More information will be posted as the Fly-in develops.

At its recent meeting, the CRSI Board of Directors unanimously approved making the Government Affairs Committee, formerly part of the Marketing Committee, as a standing Board committee. The Chair of the Government Affairs Committee will not have an automatic position on the Board of Directors.

As a result of their strong showing in the November 4 mid-term elections, the Republican Party will now control both chambers of Congress. Republicans take control from the Democrats of the U.S. Senate and also added to their majority in the House. The Government Affairs Committee will report on committee chairs and agendas as they get announced.

CRSI President Bob Risser will meet with the next Majority Leader of the U.S. Senate, Mitch McConnell (R-KY), in December with other members of the Highway Materials Group to discuss action for the 114th Congress that will be seated January 3, 2015.

The CRSI Government Affairs webpage contains information on the pressing issues affecting the industry as well as action items that can be taken by CRSI members at http://www.crsi.org/content/government-affairs/. Please contact Barbara Burchett, CRSI’s Washington Representative at bburchett@crsi.org.

On November 23, 60 Minutes aired an excellent piece on the transportation and infrastructure funding issue. You can access the video at:


The video will also be posted on the CRSI website.
Events Calendar

CRSI National Meetings
Spring Technical Meeting
March 9–12, 2015
Tempe Mission Palms Hotel
Tempe, AZ

Annual Conference
May 3–6, 2015
Westin La Cantera
San Antonio, TX

Fall Business & Technical Meeting
November 1–4, 2015
The Peninsula Chicago
Chicago, IL

CRSI Region Conferences
Northeast Region Conference
September 16–18, 2015
Lenox, MA

Southeast Region Conference
September 18, 2015
Nashville, TN

Midwest Region Conference
September 23–25, 2015
St. Louis, MO

Western Region Conference
September 24–26, 2015
Park City, UT

Greater Southwestern Region Conference
October 1–3, 2015
Biloxi, MS

Industry Events
World of Concrete
February 2–6, 2015
Las Vegas Convention Center
Las Vegas, NV

ACI Spring Convention
April 12–15, 2015
Marriott & KC Convention Center
Kansas City, MO

ASTM Committee Week
May 18–25, 2015
Marriott Anaheim
Anaheim, CA

Wishing You a
Happy Holiday Season
and a Prosperous New Year