



ASCE-SEI CODSBS Meeting – Summary Report
Friday, October 8, 2010
Hotel Roanoke and Conference Center, Roanoke, VA

Chairman Carter called the meeting to order at 9:00 a.m. and apologized to anyone who did not get the notice for the delayed start because of the late ending to the previous day’s Symposium and dinner at Virginia Tech.

Present:

Reidar Bjorhovde	Pat Fortney	
Susan Burmeister	John Gross	
Charlie Carter	Larry Muir	
Finley Charney	Tom Murray	
Peter Cheever	Clint Rex	
Bob Disque	Jim Rongoe	
Tom Ferrell		

Guests:

Allen Adams/Bentley Systems	Erleen Hatfield/Buro Happold	
Matt Atherton/VA Tech	Mark Waggoner/WPM	

Absent:

Bill Baker	Larry Kloiber
Mike Engestrom	Jim Malley
Jim Fisher	Bob McNamara
Lou Geschwindner	William Thornton
Larry Griffis	Chia Ming Uang
Socrates Ioannides	Nabih Youssef
Ron Johnson	

Item 1 –Welcome – Introduction – Thank You’s

- Chairman Carter welcomed everyone and applauded the attendance, which was very good despite what some think of as a difficult location to get to.
- Thank you to Tom Murray and Finley Charney for hosting the meeting.
- Tom Murray thanked participants of CODSBS for the previous day’s Symposium at Virginia Tech and announced the meal logistics and costs for the day.
- Introductions were made, given the guests in attendance.



Item 2 – Meeting Summary from May 11, 2010

The Meeting Summary from the May 11, 2010 meeting in Orlando, FL was moved for acceptance by Reidar Bjorhovde, seconded by John Gross, and unanimously approved.

Item 3 - 50 KSI Steel for Connection Material

- Reidar Bjorhovde reported that AISC has been close to the discussion and is aware of CODSBS's position to encourage the transition to 50 ksi grades for hot-rolled shapes other than W-shapes and plates.
- Mike Engestrom has reported this position to the AISC Manual Committee.
- Charlie Carter reported that Tom Schlafly is studying how a designer decides between the multiple grades which are available, i.e., A529, A488, A992. Confirmation of similar R_y values is involved.
- This is too late for the 14th Edition, but will be taken up for the 15th Edition.

Action: No action required. This item can be removed from the next Agenda. Status will be included in future AISC updates.

Item 4 – Communicating Connection Design

- Committee work was complete on this task, but coordination with ASCE 7 was sought through Jim Rossberg. Jim was recently promoted to be in charge of engineering programs, and thus specific closure on load combinations is still open
- A 1.5 hour session will be scheduled for NASCC in Pittsburgh titled “The Ten Commandments of Communicating Connection Design”. Presenters will be Susan Burmeister, Tony Hazel of Ferrell Engineering and Pat Fortney of Cives Engineering Corporation. Tom Ferrell will moderate.
- Pat Fortney will write the Abstract for the session and forward it to Charlie Carter.
- Charlie will confirm the session with Scott Melnick.
- Reidar suggested recording the session for a future webinar or sending the session on the road as an AISC Seminar.
- This item can be removed from the next Agenda.

Item 5 – Standard (Simple) Connections

- Larry Muir is reviewing the connection tables prepared by Tom Ferrell on behalf of AISC.
- Tom Ferrell pointed out that designs are in accordance with the 13th Edition. They will be updated for the 14th Edition.
- Discussion ensued about the best place to publish tables. Susan Burmeister pointed out that unless tables are made available through AISC, they will be viewed as not having ratification by AISC. Larry Muir pointed out that any item AISC accepts for publication also includes responsibility to keep it maintained.

Action:

- Larry Muir will continue the review of Tables and write an introduction for the use of the Tables.
- Charlie Carter will review with the Manual Committee about coordinating these explicit connection tables and those which occur in the Manual.
- Charlie Carter will review placing the Tables on the AISC website as a downloadable document.



Item 6 – R = 3

- Pete Cheever reported that the Structures Congress only accepted a poster session for the latest edition of Seismic Design in Moderate Seismic Regions. Thus the authors, Eric Hines, Pete Cheever, Jim Harris, Robert Trembly will publish papers for a Structures Congress, but present them at NASCC 2011 in Pittsburgh. Charlie Carter will schedule and moderate the session.
- Pete Cheever reported that Eric Hines' latest Tufts University graduate student is a Ph D student who is partially funded by Tom Schlafly's AISC Research Committee and will continue research for steel frames with a focus on reserve systems and also try to incorporate aspects of ASCE 31 and ASCE 41 which evaluate existing systems which may be considered non-ductile while considering reserve capacity. Charlie Carter pointed out that he is optimistic that this may allow for a return to an OCBF with an R =5.
- Charlie Carter reported that Tom Schlafly is organizing an AISC Symposium in Chicago in early December for Innovation in Steel Design. Charlie indicated that CODSBS members who are interested in attending should contact him.

Action: No action is required. This is an ongoing Committee activity.

Item 7 – Wind Drift Survey

- Finley Charney reported that the Wind Drift Survey had been completed and a thesis was also prepared based on the results by Dan Birding. The results were presented at the 2007 Long Beach Structures Congress.
- Finley will forward the survey results and the Thesis for distribution to the CODSBS subcommittee for review and discussion at the next meeting.
- Note: The wind drift survey results and thesis have been posted on the CODSBS website for review. <http://www.lemessurier.com/PCheever/asce-sei-codsbs.html>

Item 8 - Membership

- Pat Fortney was confirmed as a member of the Committee based on Tom Murray's motion and Larry Muir's second.
- Praise was given to Socrates Ioannides for engaging Allen Adams, and Tom Ferrell for engaging Erleen Hatfield who were both in attendance as guests. Charlie Carter suggested confirming their membership after the meeting via email.
- The name Mohamed Aretha of Severud Associates was mentioned as having an interest in joining. It was suggested that he submit a letter of interest with qualifications for consideration of an invitation.

Action

- A Thank you letter to Emile Troup was circulated among the Committee members for signing.
- Pete Cheever will forward the letter to Emile Troup.
- Pete Cheever will forward an email to solicit votes on Erleen Hatfield and Allen Adams.
- NOTE: Allen Adams and Susan Burmeister were confirmed by CODSBS email balloting and subsequent ASCE Metals Chair, Andrea Surovek.
- Committee members to continue to look for "new blood" which will expand the ability to make contributions.



Item 9 – Reducing the Number of Load Combinations

- Following discussion, it was agreed that ASCE-7 is not going to change the load combinations. The work that has been done by Jim Rongoe and others should be folded into the more general type of “Simplified Design”.
- A new item should be added to future agendas titled “Simplified Design”. Tom Murray requested that a session drawing on the work included in the October 7, 2010 Virginia Tech Symposium be developed and presented at the AISC Educator’s Session to be held on Wednesday, May 11, 2011.

Action Required

- Pete Cheever will draft the CODSBS mission statement for “Simplified Design” and session with AISC Educator’s Session. Tom Murray will review. NOTE: This has been done as of 10/21/10. Copy attached. (Attachment 1)
- Charlie Carter will verify the session with Nancy Gavlin of AISC.
- Tom Murray/Pete Cheever will coordinate presenters from CODSBS for session.

Item 10 – Progressive Collapse

- Susan Burmeister suggests changing the title to “Structural Integrity”.
- Susan Burmeister summarized the current “Structural Integrity” requirements from ASCE 7-10 for column splices and simple beam connections.
- Susan will email the wording discussed with Ron Johnson which will be submitted to AISC for consideration and forwarded to Committee Members for review. NOTE: This was done 10/10/10. Copy attached. (Attachment 2)
- Task Group work is complete pending feedback from AISC and future Code Developments.

Item 11 – Simplifying Seismic Design

- To be incorporated into Agenda Item 9 and left on Agenda for future meeting.

Item 12 – Expansion Joints

- Jim Fisher has prepared a survey for input from designers on the Committee. Pete Cheever will forward the survey to designers who should forward their completed surveys to Jim and Pete. Jim and Pete will summarize the results at the next meeting with the goal of preparing a future Article/presentation.

Item 13 - Standards for Preparation of Shop Drawings

- Pete Cheever presented the results of the NISD document which he and Larry Kloiber reviewed. No real standards are provided. Pete Cheever also pointed out that the AISC Detailing Manual is likely the best available reference standard. Larry Kloiber will bring this topic up at the next AISC Code of Standard Practice Committee meeting. Erleen Hatfield will send Buro Happold’s office specification standard for shop drawings. NOTE: This was done 10/10/10. Copy attached - (Attachment 3). Pat Fortney will review.

Item 14 – BIM



- Guest Allen Adams was asked to provide an overview of the status of structural steel 3-D software and its compatibility with analysis and detailing software.
- Allen reported that most larger firms are using it on a majority of projects. Smaller firms are using it on perhaps 30% of projects.
- Allen reported that, although Revit is the choice of use because of the strong marketing ploy they made with architects, the program is really in the “Beta” stage. Software suppliers, as well as in-house programming, need to work around Revit; however, this should not be intimidating if you view the long term and anticipate compatibility upgrades/improvement by Revit.
- Discussion followed as to what this subject should be titled for future meetings.
- Discussion followed about what fabricators can expect from an engineer’s model.

Summary – A subcommittee was established to create a mission statement for future discussions, presentations, articles and discussion.

- Erleen Hatfield, Susan Burmeister, Mark Waggoner, Pat Fortney, Allen Adams

Item 15 – Levelness of Suspended Slabs

- Charlie Carter reported that he appreciates all the feedback from the Committee which has been forwarded to Eldon Tipping without response. Charlie assumes Eldon will continue this subject through ACI 117, which Charlie will monitor through Mike West who is a member.
- This item can be removed from the next agenda, and if updates occur, they will be reported under AISC News. Charlie Carter, Larry Muir, Ron Johnson and Pete Cheever will review AISC and ACI tolerances to establish a steel construction version of good practices for slab on deck floor construction.

Item 16 – Embedded Plate Design for Steel Connections

- Larry Muir has encountered varying conditions on design documents with respect to steel beam connections to plates with headed studs embedded in concrete foundation walls. It seems likely that many firms employ typical details for these conditions which may not address all the eccentricities or conditions which actually occur during final detailing.

Action: Committee to prepare an Article on the design of embedded plates for varied steel connection loading conditions suited for Structure Magazine.

- Clint Rex will chair the Task Group.
- Larry Kloiber will assist with field fixes.
- All designers should send their office typical details to Clint for consolidation and discussion at next meeting.



Item 17 – AISC Update with Solutions Center Report

- Charlie Carter reported the following:
 - The regrettable passing of Kurt Gustafson and the short term staffing shortage for the Solutions Center.
 - The Jerry Hajjar – Greg Deierlein self-centering rocking frame research was featured in Popular Mechanics.
 - 2011 TR Higgins Award to Charles Roeder for braced frame gusset plates and elliptical failure plane.
 - 2010 Specification will be available in December 2010.
 - 14th Edition of Manual (sporting a maroon cover) will be available in the Summer of 2011, and it is likely that AISC will also offer it in pdf format.
 - Engineering Journal is now being sent electronically to all AISC members.
 - AISC is trying to improve seminar attendance by seeking co-sponsors and giving fabricators coupons to give to invitees.
 - Steel Day (September 24, 2010) was a big success. 8000 people total participated nationwide, including several hundred in Chicago who participated in a Chicago River architectural cruise.
 - The Fall Seminar series is starting:
 - Do's and Dont's of Steel Design
 - Practical Connection Design
 - The 2011 Bridge Competition will be held at Texas A&M.
 - AISC is co-sponsoring an architectural competition, with the Association of Collegiate Schools of Architecture, with the challenge to design a Homeless Assistance Center.
 - AISC's scholarships and fellowships, overseen by Nancy Gavlin, amounted to \$85,500 this year.
 - AIC continues student discount program for manuals, which will now be shipped directly to students (as opposed to past practice of sending books in bulk to professors).
 - New Research sponsored by AISC:
 - Robustness and Structural Integrity of Steel Structures.
 - Hollow Structural Sections Material Standard
 - Seismic Design – Column Splice Study for Using Partial Joint Penetration Welds.
 - AISC will be hosting an Innovation Workshop in early December.
 - AISC “seed” money is proving to be well-spent as evidenced by:
 - 16 different universities funded with 25 graduate students affected.
 - Latest Design Guides are:
 - 24 – HSS (completed)
 - 25 – Tapered Sections
 - 26 – Stability Design Guide
 - 27 – Blast & Progressive Collapse
 - 28 – Castellated Beams



Item 18 – New Chair

- Charlie Carter announced the new CODSBS Chair will be Peter Cheever. Charlie was relieved to be stepping down and thankful for all the support he has received and looks forward to continuing participation.

Item 19 – Next Meeting

- Pittsburgh, PA – May 10, 2011

The meeting was adjourned at 4:30 p.m.

Submitted by,

Peter J. Cheever
Secretary