

ACI 408 – Development and Splicing of Deformed Bars
Sunday, March 18, 2012
Windsor Room, Hyatt Regency Dallas, Dallas, TX

Present:

G. Apparao	Brian Gerber
Joerg Asmus (V)	Scott Graham
Robert Barnes	Neil Hawkins
Jorge N. Bastos (V)	Audra Hoermann-Gast (V)
JoAnn Browning	Roberto Leon
Kyoung-Kyu Choi (V)	Remy Lequesne (V)
Oam Chul Choi	LeRoy Lutz
Lou Colarusso	Reda Mahgoub
Rolf Eligehausen	Adolfo Matamoros
Anthony Felder	Jim Schroder
Lisa Feldman	John Silva
Cathy French	Koray Tureyen
Werner Fuchs	Bill Zehrt
(V) - Visitor	

Regrets:

Jean Jacques Braun	Allen Hulshizer
Steve Holdsworth	Juan Murcia-Delso

1. Welcome
Chair Matamoros welcomed all to the committee meeting.
2. Introductions
Introductions were made.
3. Approval of the Minutes from the Fall 2011 Convention in Cincinnati
The minutes of the Fall 2011 Convention in Cincinnati were approved as written.
4. Membership Changes

There have been no membership changes since the last convention.

Adolfo informed the group that Bruce Ireland passed away sometime after the Fall 2011 convention.

Adolfo also announced that this will be the last meeting in which he will be serving at Chair. Lisa Feldman is the chair designate and will be taking over the position following this convention.

A final note is that all members of 408-A must be full committee members. Lisa Feldman will be reviewing this with Lou Colarusso following this meeting.

5. Report from Subcommittee 408-A

Removal of Type 0 splice from the code and language regarding staggering in ACI318 was removed (Note that this item was also brought up by Cathy French and is discussed further under Item 11). Comments from the last ballot were discussed.

Document 408.4R was discussed at length and will be reported under Item 7 of this meeting.

6. “Bond under Cyclic Loads (ACI 408.2R-92) (Reapproved 2005)”

Staff felt strongly that some of the changes made to this document were not editorial in nature and so the document needed to be re-balloted. This has now been completed and the document has been resubmitted to staff. We should be expecting to hear back from TAC soon regarding whether they felt that their comments were adequately addressed.

7. “Mechanical Reinforcing Bar Anchorage” ACI 408.4R-XX

Committee 408-A continues to work on this document. Six of eleven chapters have now been balloted. Some negatives were received on Chapters 3 – 6, and the committee is working on these changes. A new ballot will be issued on Chapter 3 shortly after this Convention. Chapters 4 and 5 require a web meeting to go through the changes to these chapters. Chapters 4 and 5, along with Chapter 6, will then be balloted for a second time.

Chapter 7 is in progress. A literature search was completed to ensure that this chapter is up to date and so the goal is to ballot this Chapter shortly as work in this field is changing quickly and new publications are becoming available.

Headed bars in 318 Code provisions: Some confusion exists when to use provisions for headed bars in Chapter 12 and when to use provisions for anchorage. 318-B would welcome a discussion on this topic. Anyone on Committee 408 that is interested in participating in this discussion is invited to at the 318-B meeting on Tuesday, March 20 at 3:30 pm in Cumberland G. Committee 408 can clarify the intention of the equation on mechanical anchorage and what we expect of our anchorage provisions in terms of performance. A 408 technical note, potentially to be published in *Concrete International*, that is a couple of pages long including figures was requested. A group will be formed for this purpose. Volunteers identified at the meeting include John Silva, Adolfo Matamoros, Roberto Leon, Werner Fuchs, and Koray Tereyen. David Darwin was also identified as a person who might be interested in getting involved.

8. ACI 408-03 Bond and Development of Straight Reinforcing Bars in Tension

It was agreed at the last meeting to reapprove it with the compromise that work would be started to update this document. Volunteers were sought to work on this document. In particular, bond provisions in the draft 2010 CEB-FIP Code have changed significantly from the 200 edition of this code. A significant body of work on high strength bars has developed since the last time this document was revised. Tests on splices in compression

have also been published by Korean researchers and perhaps should allow for expansion of this document to include compression lap splices as it likely would not make for a viable document on its own. Julio Ramirez has recently completed an NCHRP project and have recommendations put forward to address bond in high strength concrete. We will need a document coordinator, people responsible for each chapter (Chapter 4 – Werner, Adolfo noted that Dave Darwin has completed some work that presents comparisons of numerous codes and has developed a database to this effect), and volunteers to help with all. Lisa Feldman will continue to seek out volunteers for this work.

9. Technical Sessions:

- a. Recent Developments in Bond Splice Tests. Fall 2011 Cincinnati.

Prof. Chen was thanked for organizing this technical session.

- b. Symposium Honoring James Jirsa's Legacy in Structural Concrete: A Time to Reflect: Bond and Development Length. Spring 2012 Dallas.

All are encouraged to attend this session from 11:00 am – 1:00 pm tomorrow.

- c. Structures Congress: Bringing Reinforcing Bar Anchorage into the 21st Century

Work is moving forward for a session in Pittsburgh next year. Information was forwarded to David Saunders who is spearheading the ACI track at this conference. Speakers at this session were identified at the 408 meeting in Cincinnati and were included in that set of minutes. We should hear of the formalization of this session in the near future.

10. Research Presentations:

- a. Bond Strength of Reinforcing Bars with High and Low Alternating Ribs, Oal Chul Choi.

Dr. Choi was thanked for providing this interesting presentation.

11. Other Business

Cathy French, Chair of 318-B attended this meeting and addressed the following:

- The simplification of the 318 Code to eliminate Type 0 mechanical slices. Stagger of such splices created confusion in the rest of the Code. Committee 408-A will be issuing a response to this item to Committee 318-B to address the questions posed. The text of the response was presented at the meeting, was revised, and was voted for submission to 318-B (14 voted positively and so quorum was attained).
- Cathy also stated that Committee 318-B appreciates the support of ACI Committee 408.

Jim Shroder mentioned that 349 and 359 are currently being revised and asked if it would be appropriate for this committee to look at these nuclear codes as they pertain to connections, blast and impact connections. Some discussion has been made in these committees to approach our committee. John Silva and Lou Colarusso have been appointed as liaison between our committee and Committee 349.

12. Next Meeting – Sunday, October 21, 2012 in Toronto, ON.
13. Adjournment – 11:04 am