

**ACI 408 – Development and Splicing of Deformed Bars**  
Sunday, October 16, 2011  
Room C-264, Duke Energy Convention Centre, Cincinnati, OH

Present:

|                         |                            |
|-------------------------|----------------------------|
| Robert Barnes           | Bruce Ireland              |
| JoAnn Browning          | Josh Ison (V)              |
| Chris Carroll (V)       | LeRoy Lutz                 |
| Tim Cartwright          | Juan Murcia (V)            |
| Genda Chen              | Khaled Nahlawi (ACI Staff) |
| Doug Cleary             | Jim Schroder               |
| Lou Colarusso           | John Silva                 |
| Jon Colinares (V)       | Pericles Stivaros (TAC)    |
| Rolf Eligehausen        | Keith Thompson             |
| Anthony Felder          | Bret Turley                |
| Werner Fuchs            | Chenglin Wu (V)            |
| Brian Gerber            | Jian Zhao (V)              |
| Neil Hawkins            | Bill Zehrt                 |
| Andre Hoermann-Gast (V) |                            |
| (V) – Visitor           |                            |

Regrets:

|              |                 |
|--------------|-----------------|
| Tess Ahlborn | Allen Hulshizer |
| Scott Graham |                 |

1. Welcome  
Chair Matamoros welcomed all to the committee meeting.
2. Introductions  
Introductions were made.
3. Approval of the Minutes from the Spring 2011 Convention in Tampa  
Change Roy to Rolf Eligehausen.  
Item 8, change “staggered” to “stagger”.  
Adolfo incorrectly spelled as Adolpho twice in the minutes.  
Minutes were approved as amended.
4. Membership Changes  
Jim Schroeder has been added as a member.  
Alvin Erickson is stepping from voting member due to new job responsibilities and will continue as a consulting member.
5. 408A met earlier in the morning.  
Ballot item related to type 0 splices was discussed.  
Balloting for the entire document will take place before the Spring Convention.

Chapter 3 – Head Types: All negatives as well as comments were addressed in the revision. This chapter will be re-balloted.

Chapter 4 – Notation: This ballot passed. Negatives will be addressed. This chapter will likely not require re-balloting.

Chapter 5 – Historical Review: This ballot passed. Negatives will be addressed.

Chapter 6 – Headed Bar Devices: This ballot passed. The committee will review and resolve the negative comments. This chapter will likely not require re-balloting.

Chapters 7 – 11 will all be balloted such that the ballots will close prior to the Spring Convention.

6. “Bond Under Cyclic Loads (ACI 408.2R-92) (Reapproved 2005)”  
JoAnn has been leading the effort on this document. It was balloted with comments addressed and negatives resolved, presented to TAC, and TAC comments have been received. TAC comments were addressed with negatives resolved this past summer. We are waiting on a final TAC decision and we will then proceed accordingly.
7. “Mechanical Reinforcing Bar Anchorage” ACI 408.4R.XX  
Please refer to Item 5 above.
8. ACI 439 Document on Stagger Requirements for Mechanical Splices  
This document was approved by the committee and comments were addressed so it will be forwarded to committee 318-B for consideration. The intention is to incorporate this information in ACI318-17.
9. ACI 408-03 Bond and Development of Straight Reinforcing Bars in Tension  
Parts of this document need to be updated. For example, one area that needs to be addressed is updating information regarding the recent changes to the European Model Code (currently published as a draft document, 2010).

Motion (Hawkins/Silva): That we maintain ACI 408-03 with work done in the next cycle to update information regarding European requirements. The document will also potentially need to be updated to address high strength bars (Grades 80 and 100), ultra-high performance concrete, enamel coating of bars, and large diameter bars. The motion was approved unanimously (13 committee members voting for, zero abstentions and zero against).

A sub-committee will be tasked with the update related to European Code provisions (Eligehausen, Silva, Fuchs). Quick research presentations are requested for the meeting in Dallas related to the European Code provisions (TBA) and enamel coating (Chen).

10. Technical Sessions:
  - a. Recent Developments in Bond Splice Tests, Fall 2011 Cincinnati.  
Seven presentations will be made in the session this afternoon. All are welcome to attend.
  - b. Symposium Honoring James Jirsa’s Legacy in Structural Concrete: A Time to Reflect: Bond and Development Length. Spring 2012 Dallas.

The program for this session has now been set. The session is in four parts, with one part (Part 2) sponsored by Committee 408.

- c. ASCE Structures Congress 2013 in Pittsburgh.  
A session is being solicited as a joint ASCE/ACI committee as part of an ACI track at this congress, potentially related to couplers and headed bars or seismic performance of connections. A decision including the title (“Bringing Reinforcing Bar Anchorage into the 21<sup>st</sup> Century” and the suggestion of four to six speakers: connections with headed bars (Colarruso), high-strength bars (Cairns with Browning as a backup), post-installed bars (Eligehausen or Silva), hooks in high-strength concrete (Darwin/Browning), enamel coated bars (Chen), performance of splices during the Chile earthquake (Santiago, proposed) needs to be presented in the next week.
11. Research Presentations  
Silva made a presentation on performance of reinforced concrete connections during the recent Japanese tsunami.
12. Other Business  
Recent ASCE/ACI 59-11 Blast Standard has now been released.
13. Next Meeting  
March 18, 2012 in Dallas, TX.
14. Adjournment  
The meeting was adjourned at 10:47 am.