

American Concrete Institute Committee 222
Corrosion
Fall 2011 Meeting Minutes
Tuesday, October 18, 2011
Cincinnati, Ohio

Members in Attendance

David Trejo, Chair

Michael Brown
David Darwin
Hamid Farzam
Mohammad S. Khan
David McDonald
Ted Neff

Charles Nmai
Randy Poston
Ruben Salas
Paul Tourney
David Whitmore
John Wojakowski

Associate Members in Attendance

Poul-Erik Arnvig
Neal Berke
Matthew Drew
Ceki Halmen
Catherine Houska
Carl D. Maki
Wes Miller

Amir Poursaee
Dave Tepke
Steve Tritsch
John Turner
Chuck Weiss
Wael Zatar

Visitors in Attendance

Jacob Bice
Salem Faza
Richard Huza
Krith Krsnra
Douglas Leng
Rhesean Nicholl

John Popovics
Mohammad Pour-Ghaz
Chris Przywara
Hal Reed
John Roller

1. Welcome/Introductions

Chair Trejo called the meeting to order at 2:04 PM. This was followed by self-introductions of those in attendance. Chair Trejo counted voting members and noted that a quorum was not present (2:06 PM - 8 voting members were present). Chair Trejo provided information about the current membership status and announced that changes will be made in the membership to improve the efficiency of the committee.

2. Approval of Minutes

Approval of Minutes of Fall 2010 Pittsburgh meeting and Spring 2011 Tampa meeting were postponed to the next meeting because a quorum was not present.

3. Overview of ACI Documents

Chair Trejo gave a brief overview of the status of the committee documents.

222.2R Corrosion of Prestressing Steels – Andrea Schokker, Randy Poston, Tracy Marcotte, and Jeff West put a lot of effort into this document and it was conditionally approved by TAC. All concerns/comments must be addressed within a 2 year time frame, which will end in Spring 2012. Therefore, these revisions have to be done quickly. Chair Trejo will contact Jeff West to identify somebody to take the lead on this and finish the document.

222.3R Guide to Design and Construction Practices to Mitigate Corrosion of Reinforcement in Concrete Structures – This document was completed and is now published.

222R Protection of Metals in Concrete Against Corrosion – This document was reapproved by TAC in 2010. TAC rejected the document with the majority of comments that the references need updating. Chapters 1, 2, 3, 5, and 6 have been balloted and negatives need to be resolved. The negatives in Chapters 1, 2, and some of negatives in chapter 3 were discussed in Tampa meeting and the committee will continue working on the remaining chapters during this meeting.

4. Resolution of Negatives in 222R Document

Chair Trejo presented existing negatives in Chapters 3, 5, and 6 and the committee discussed potential solutions to resolve the negatives. These potential solutions were documented and will be balloted with a letter ballot because of the lack of a quorum in the meeting.

Chapter 3

One negative cast by David McDonald on a narrative on epoxy coated bars on page 19 was revised by David Trejo. David Trejo will send the revised version to David McDonald for another review before sending it to be balloted.

A revision was made by Chair Trejo on the corrosion resistant section on page 23. It was decided to address stainless steel in a separate section. Chair Trejo will send the revised text to David McDonald and Catherine Houska (chouska@tar-inc.com) for another review before sending it out for ballot.

Chapter 5

All negatives and possible resolutions were discussed and recorded by the Chair to be balloted.

Chapter 6

A negative cast by Ted Neff on page 4, lines 18-19 were discussed. Michael Brown will verify that the conclusions stated in the document referring to a 1994 NCHRP study by Weyers are correct.

Section on page 4, lines 15-19, on performance and service life of overlays was discussed. David Darwin will provide Chair Trejo with a recent reference from Kansas on the subject. Also, Dave Tepke will provide information from a 2009 NCHRP report on the subject as a possible reference.

Topic of surface applied inhibitors was discussed to resolve a negative by David Whitmore (page 2, lines 17-20). It was decided to use a new subheading on corrosion inhibitors and to use a balanced text similar to the one used in 222.3R document. Dave Tepke will provide references on lab studies with negative results.

Page 5, line 20, The extraction rate of electrochemical chloride extraction (ECE) was changed. David Whitmore will provide reference on the subject.

5. Report on Sessions

Mohammad Khan gave an update on the status of the Hope and Schupack symposium that will be held in Dallas, TX (Spring 2012). The committee has the initial approval and Mohammad will apply for the final approval shortly. Fifteen papers were received and there is space for one more paper, if submitted quickly. Catherine Houska stated that she will submit a paper shortly for the symposium. Andrea Schokker will do paper/presentation to tribute M. Schupack and Carolyn Hansson will do the paper/presentation to tribute B. Hope.

6. New Sessions and Business

A joint session on cracking in concrete in collaboration with ACI 224 for the meeting in Toronto was proposed. A joint session was proposed by John Popovic with the structural health monitoring committee for the Minneapolis meeting on embedded sensors for health monitoring and durability. Mohammad agreed to work with John on the session. Chair Trejo proposed a tribute for Richard Weyers who recently retired. Richard Weyers has made significant contributions to committees 222, 342, and 365 and it was felt the tribute is well-deserved. David McDonald proposed a session focusing on the completed committee documents (specifically 222.3R for now). It was decided to put this on the agenda for the next meeting.

7. Adjournment

David McDonald moved to adjourn the meeting. John Wojakowski seconded the motion. The meeting was adjourned by Chair Trejo at 4:05 pm.