

ACI Sub-Committee 544-C

Testing of Fiber Reinforced Concrete

Agenda

Tuesday, April 5, 2011

2:00 PM – 3:30 PM

Room: W-O'KNIGHT

- 1. CALL TO ORDER**
- 2. INTRODUCTIONS**
- 3. APPROVAL OF AGENDA**
- 4. REVIEW SUB-COMMITTEE ACTIVITIES SINCE PITTSBURG (SEE ATTACHED)**
- 5. DISCUSS THE POSSIBILITY OF A TECHNICAL SESSION ON TESTING OF FRC**
- 6. ASTM, RILEM, FIB LIAISON REPORTS?**
- 7. NEW ITEMS**
- 8. ADJOURNMENT**

ACI 544-C Meeting Minutes

Fall Convention

Tuesday, October 26, 2010

2:00 PM – 3:30 PM

Room: C-315

David L. Lawrence Convention Center

1. CALL TO ORDER

2. INTRODUCTIONS

Members Present:

Dean Forgeron, Mahmut Ekenel, Bobby Zellers, Amanda Bordelan, Pete Tatnall, Cliff MacDonald, Barzin Mobasher, John Zhang, Jerry Morton, Mike McPhee, Vivek Bindinganavile, Gordon Batson, Jubum Kim, Xavier Destree, Antonio Gallovich, Phil Schlossnagle, Carla Yland, Brett Williams, Scott Hart, Eric Musselman, Bob Annette, Mel Galinat, Nick Mitchell, Ki Sobolev, M.Arochiasamy

3. APPROVAL OF AGENDA

4. REVIEW SUB-COMMITTEE ACTIVITIES SINCE 2006 (available on the [subcommittee website](#))

5. TESTING DOCUMENT BALLOT RESULTS (FEB 2010) (available on the [subcommittee website](#))

6. PROPOSED FUTURE WORK OF ACI 544C

Subcommittee agreed to rework the entire document to update content. Nine members agreed to review portions of the document which can be found on the [sub-committee website](#).

<u>Name</u>	<u>Section</u>
Amanda Bordelan	(4.3, 4.4)
Cliff MacDonald	(3.4, 3.5, 4.6),
Barzin Mobasher	(Chapter 4, 6.2),
John Zhang	(3.6),
Jerry Morton	(3.4, 3.5),
Vivek Bindinganavile	(4.3, 4.4, 4.5),
Gordon Batson	(6.1, 6.2),
Jubum Kim	(4.2, 4.3),
Ki Sobolev	(5.3)

10. ADJOURNMENT

List of Activities

ACI 544-C THE MEASUREMENT OF PROPERTIES OF FIBER REINFORCED CONCRETE

Sub-Committee Chair: Dr. Dean Forgeron

Background

During the spring 2010 meeting in Chicago, the results of a third ballot of the document were discussed and the vision of the new Committee chairman was incorporated into a plan to further refine the document and re-ballot a new version as soon as possible. The refinements include complimenting the description of the recently balloted testing procedures with additional information that will help the reader interpret the testing results more accurately and apply them more effectively.

During the fall 2010 meeting in Pittsburg the Subcommittee agreed to rework the entire document to update content. Nine members agreed to review portions of the document which can be found on the sub-committee website. It was also agreed that additional commitments would be requested from other members that expressed interest in being a member of ACI 544-C during the ACI 544 committee survey.

Summary of activities since Pittsburg

The sub-committee website roster has been posted allowing all members that expressed interest in ACI 544-C to access the working documents of the committee since 2006. An email was sent to members who agreed to participate to confirm their intent. An additional email was sent to all the committee asking for other members to commit to updating a section (by email) as soon as possible. A summary table containing the membership names and all sections of the ACI 544-C document with membership commitments confirmed to date is attached. Member names highlighted green have committed to working on one or more sections of the document (marked with a (x) and highlighted yellow. The title of each section is shown below the table for reference.

List of activities planned before ACI Tampa

- Email members that have not committed to a section directly to request a commitment
- Compile work completed to date for discussion in Tampa
- Send a request to the rest of the committee to solicit help on sections of the document that have not been reviewed by ACI 544C members.
- Review sections that I have committed to before Tampa

ACI 544 C	FRC Testing Subcommittee Duties																									
	Chapter 3						Chapter 4						Chapter 5						Chapter 6							
	3.1	3.2	3.3	3.4	3.5	3.6	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	5.1	5.2	5.3	5.4	5.5	5.6	5.7	5.8	5.9	5.10	6	6
Total Committed	0	0	0	2	2	1	3	4	7	3	3	1	0	0	1	0	1	1	0	1	0	0	0	0	1	2
Member																										
Arockiasamy																										
Ekenel																										
Galinat																										
Gallovich																										
Kim																										
Musselman																										
Tatnall																										
Destree																										
Sobolev																										
Zellers																										
Bindiganavile																										
Bordelon																										
Forgeron																										
Mobasher																										
Batson																										
MacDonald																										
Mitchell																										
Morton																										
Zhang																										
Mindess																										
members that have committed to reviewing at least one section of the document																										

Section Title

- 3.1 Sampling and Specimen Preparation
- 3.2 Air Content, Yield and Unit Weight
- 3.3 Workability
 - 3.3.1 Conventional Concrete Workability Tests
 - 3.3.2 Self Consolidating Concrete Workability
- 3.4 Plastic Shrinkage Cracking
- 3.5 Fiber Content and Distribution
- 3.6 Rebound in Shotcrete

- 4.1 Compressive Strength, Compressive Toughness, Modulus of Elasticity and Poisson's Ratio
- 4.2 Tensile Strength and Toughness
- 4.3 Flexural Strength and Toughness
- 4.4 Fracture Resistance
- 4.5 Impact Resistance
- 4.6 Flexural Fatigue Resistance
- 4.8 Shear and Torsion

- 5.1 Creep
- 5.2 Autogenous and Drying Shrinkage
- 5.3 Freeze-Thaw Resistance
- 5.4 Chloride Penetration
- 5.5 Corrosion Resistance
- 5.6 Resistance to Scaling
- 5.7 Cavitation, Erosion and Abrasion Resistance
- 5.8 Fire Resistance
- 5.10 Aging and weathering

- 6.1 Electrical Conductivity
- 6.2 Thermal Response