

**ACI Committee 544F
Fiber Reinforced Concrete
Durability**

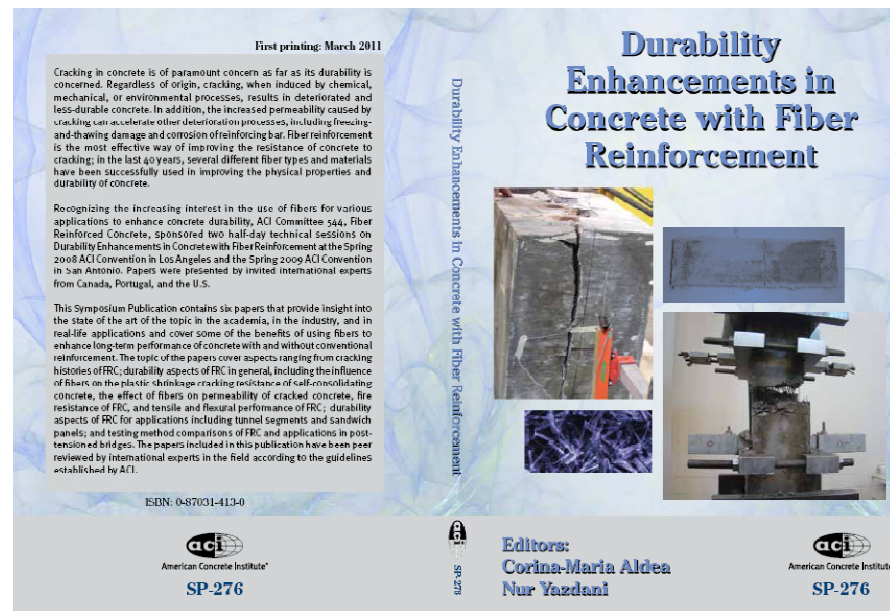
**Compilation of Activities since ACI Fall
Convention, Pittsburgh, 2010**

Corina Aldea
Tampa, April 2011

Special Publications Under Development

1. Durability enhancements in Concrete with Fiber Reinforcement

- 6 papers presented in Los Angeles, ACI Spring Convention 2008 and San Antonio, ACI Spring convention 2009.
- Co-editors: Corina Aldea and Nur Yazdani.
- ACI SP-276, available in Tampa!



Special Publications Under Development, cont'd

2. Advances in Fiber Reinforced Concrete Durability and Field Applications

- 12 papers to be presented in Tampa, ACI Spring Convention 2011.
- Co-editors: Corina Aldea and Mahmut Ekenel.
- Goal: publication date at the Fall 2011 convention.
- Status:
 - 12 papers
 - Majority of the papers in a final form.

Upcoming and Future Sessions

1. Advances in Fiber Reinforced Concrete Durability and Field Applications: Part 1 and Part 2, Tampa, ACI Spring Convention 2011.
 - 12 international presentations
 - organizers and co-chairs: Corina Aldea, Mahmut Ekenel and Cliff MacDonald

Upcoming and Future Sessions

2. Fiber Reinforced Concrete: Smart Materials and Sensors: Part 1, Cincinnati, ACI Fall Convention 2011.

- Co-sponsored by ACI 544F FRC – Durability and 236-0D Material Science – Nanotechnology of Concrete
- organizers and co-chairs: Corina Aldea and Konstantin Sobolev
- 7 papers
- TAC granted preliminary approval in April 2010.
- Final session request submitted.

Technical notes

Based on ACI 544.5R-10

- Effect of fibers on shrinkage cracking – Jeff Nowak, *not received*;
- Effect of fibers on freeze-thaw resistance – Cliff MacDonald, *not received*;
- Corrosion resistance of FRC – Joaquim Barros, *not received*;
- Permeability of FRC – Jean-Philippe Charron and C. Aldea; draft document posted on 544F website, for discussion in Tampa;
- Blast resistance of FRC – Liberato Ferrara, long term, not received.

Other Activities

- ACI 544F in collaboration with E701 Materials for Concrete Construction to prepare a list of Q&A for the ACI online CEU program.
 - 10 Q&A based on ACI 544.5R-10, Ch. 3 Physical properties of FRC prepared by Corina Aldea and Jean-Philippe Charron;
 - Available on ACI website since December 2010
http://www.concrete.org/education/edu_online_CEU.htm