

## **ACI 440L Minutes Toronto, Canada**

### **Durability of FRP Structures**

**Sunday, October 21, 2012**

**Room: GRAND EAST**

**The Sheraton Center**

#### **Members present:**

John Myers – Chair  
Jenny Tanner – Co-Chair  
Heidy Braverman  
Gregg Blaszak  
John Busel  
Trey Hamilton  
Rudi Seracino  
Xavier Seynave  
Mahnut Ekenel  
Carol Shield  
Sara Witt  
Ehab El-Salakawy

#### **Visitors present:**

Paulina Aruesskce  
Martin Krall  
Sobhy Masoud  
Ciro Del Vecchio  
Amir El Ragaby

1. J. Myers called the meeting to order.
2. J. Myers presented the meeting agenda and they were approved.
3. J. Myers presented the Dallas Spring 2012 440L meeting minutes which were approved.
4. T. Hamilton was acknowledged for his efforts to prepare the document for ballot.
5. J Myers reported on ballot summary and previous discussion on negative resolution.
  - Bank 1-1-1 - Withdrew negative via e-mail correspondence with John Myers.

#### Chapter 1

Negatives submitted were addressed and responses were prepared to present to the main committee. Individual responses are clarified in supporting table indicating resolution of negatives.

Inclusion of mechanical fasteners in Chapter 1 and 3 was discussed. A variety of opinions were presented to bring the issue to main.

### Chapter 3

Discussion on references constituted part of the meeting. Prior to balloting the document, Dr. Myers removed many references in Chapter 3. Two additional references were removed based on meeting discussion. Conference paper by Hamilton et al. was removed. Requests to add references were denied. As a result of the discussion Porter changed his negative votes to AC: Porter 1-13-11; Porter 3-38-4 through 5; and Porter 4-13-20.

Steel fibers in FRP were eliminated from document.

Blaszak withdrew negative on Chapter 3, page 11, line 20.

### Other items

A discussion ensued with M. Green about temperature of test. Dr. Green recommended using a lower temperature to ensure that the Arrhenius equation is valid.

### Chapter 4

Concrete strength was discussed. High strengths are required in the beam test to achieve an adhesive failure rather than a cohesive failure. Lower strengths are desired in the bar conditioning for high permeability. A solution to separate compressive strengths for each chapter was proposed. Chapter 5 will use the prescribed concrete mix referenced in D7705. Chapter 6 will use the high strength mix presented in Chapter 4.

The meeting was adjourned at 5 PM.