

**ACI-348 STRUCTURAL SAFETY  
Minutes of Committee Meeting  
ACI Spring Convention 2003**

DATE: Monday, March 31, 2003

TIME: 5:00 PM-6:30 PM

VENUE: Grouse Room, Hyatt Regency, Vancouver, BC, Canada.

**PRESENT:**

**Committee members:**

Hani Nassif, Rutgers University, Piscataway, NJ (Chair)

Sofia Diniz, Federal University of Minas Gerais, Brazil (Secretary)

Rita Oglesby, H.S. Kwoh & Associates, Inc., St. Petersburg, FL

Mike Bartlett, University of Western Ontario, Canada

Bob Sexsmith, University of British Columbia, Canada

Andy Nowak, University of Michigan, Ann Arbor, MI

Neven Krstulovic, Exponent, CA

**Visitors:**

Bert Weinberg, Pat Chairman of ACI 348

**1. Introduction**

Nassif called the meeting to order at 5:10 PM. Nassif passed the attendance sheet.

**2. Minutes of the meeting held in Phoenix, AZ, Monday, October 22, 2002**

Nassif presented the minutes of the Fall 2002 meeting in Phoenix, AZ, Monday, October 22, 2002. Nassif asked if there were any comments or changes in the minutes. The minutes were accepted unanimously. Nassif mentioned that the minutes were posted in the ACI website; committee members are then able to access them. Members receive a notification via e-mail when the document is posted. Nassif also mentioned that this is part of an effort made by ACI to increase the use of the institute website.

**3. Development of rational strength reduction factors for ACI 318**

Nassif invited Nowak to present an update on his research developed at the University of Michigan. This work resulted in strength reduction factors that are in agreement with the load factors provided in the *ASCE 7 Standard 'Minimum Design Loads for Buildings and Other Structures'*.

Andy Nowak mentioned that the results of his research on the development of rational strength reduction factors for ACI 318 have been summarized in two papers that will be published in the *ACI Structural Journal* shortly. The first paper is related to the statistics of new data related to prestressed and reinforced concrete materials, and the second covers the code calibration process.

Nowak reported that the basic changes have already been incorporated in the ACI 318. The  $\phi$  factors remain more or less the same as before. Nowak also mentioned that it is important to assess how changes will affect other limit states. For example, it would be of interest to check how development lengths will be affected. Nowak pointed out that what has been incorporated in the ACI 318-02 is the result of *phase 1* of his research project. In the next phase, *phase 2*, other limit states are being evaluated, for instance, eccentrically-loaded columns. A discussion followed Nowak's remarks.

#### **4. Load Models (Diniz/Nassif)**

This item was discussed in conjunction with item 6.

#### **5. Statistics for Concrete Construction Material and Data Bank**

Nassif mentioned that a lot of data on HSC is currently available and it would be of interest to have it documented in a report and to make this document available online. In another effort to disseminate this information, it would be interesting to present this information in a session organized by this committee. This topic was discussed in conjunction with item 6.

#### **6. Current and future sessions**

Nassif mentioned that, as agreed in previous meetings, we should have two sessions proposed for the ACI Fall Convention in Boston, 2003. However, due to a number of constraints, the organization of these sessions had to be postponed. Nassif mentioned that the committee should look for having these sessions in Washington and preferably in San Francisco. Nassif also pointed out the advantage of having these two sessions at the same convention due to the relevance of seeing both the resistance and load models together. Additionally, the committee should make an effort to have the contributions to both sessions documented in a special publication. It was reminded that in this case, the decision for the best time for the conference has to include the time for the paper review process. It was agreed by consensus that the sessions should be planned for San Francisco, with the review process starting over the summer. All members were invited to contribute in the organization of these 2 sessions. A discussion followed about potential speakers for the sessions:

- a. "Material Properties and Resistance Factors for Buildings and Bridges", new session (Nassif/Diniz).
- b. "Load Models for Concrete Structures", new session (Diniz/Nassif).

#### **7. Membership updates**

No updates.

#### **8. New business**

Nassif mentioned that the *Second International Conference on Bridge Maintenance, Safety and Management, IABMAS'04*, will be held in Kyoto, Japan, October 19-22, 2004. The previous conference happened last year in Barcelona. Professor E. Watanabe from Kyoto University is the major organizer. Nassif suggested that this committee could organize a session for IABMAS'04.

Two other events were also mentioned: the *TRB* that happens every 3 years (the last meeting was in Tampa and the next will be held in Boston, 2005) and the *13<sup>th</sup> World Conference on Earthquake Engineering*, to be held August 1-6, 2004, Vancouver, Canada.

### **9. Next committee meeting**

ACI 348 will meet in Boston, Massachusetts, during the ACI 2003 Fall Convention. The meeting is to be held in Room Beacon F, Sheraton Boston Hotel & Towers, Boston, MA, on Monday, September 29, 2003, between 5:00-6:30 pm. Nassif called the attention of the committee members for the fact that the Boston convention will start on Saturday rather than on a Sunday.

### **9. Adjournment**

The meeting was adjourned at 6:30 PM.