

**AGENDA**  
**ACI COMMITTEE 365 – SERVICE LIFE PREDICTION**

**ACI Fall 2007 Convention**  
**Fajardo, Puerto Rico**

**Monday, October 15, 2007**  
**9 am to 1 pm**  
**Meeting #39**  
**Magnolia**

1. Call to Order
2. Self-Introductions and Membership Update
  - a. Voting membership
  - b. Quorum calculation
3. Approval of Atlanta Minutes
4. Approval of Agenda
5. Status of the State of the Art Report (365.1R)
  - a. Chapter Progress Updates REFER TO TABLE 1
  - b. TAC review update
    - i. Calendar of ACI engineering review with TAC submission deadline dates (REFER TO TABLE 2)
6. Subcommittee 365A Report
  - a. Ultimatum last meeting.
  - b. Document progress: Chapters 1, 3, 6, and 7 have been drafted. The current outline of the document is:
    - i. Ch. 1: Introduction (Bhide, Kojundic)
    - ii. Ch. 2: Factors affecting service life (Berke)
    - iii. Ch. 3: Service Life modeling basics (Isgor, Thomas)
    - iv. Ch. 4: Modeling protection systems (Hooton, Prusinski)
    - v. Ch. 5: Maintenance and Repair (Church)
    - vi. Ch. 6: Life-cycle cost analysis (Marcotte, Ehlen, Fung)
    - vii. Ch. 7: Looking beyond the basic calculations (Chapdelaine)
  - c. Further discussion will focus upon whether the document should continue.
  - d. Meeting: Monday afternoon, 2-5 pm in Siete Mares A.
7. Report on Technical Sessions
  - a. “Advances in Service Life Models that Consider Multiple Sources of Deterioration”, Atlanta (Weiss)
  - b. “Bridging the gap between SLP models and Practice”, Los Angeles: M. Brown
  - c. “Specifications and service life, performance-based specifications”: Tourney
  - d. “Predicting or extending service life” – Open
  - e. “Service Life and Safety” with 348 – Open
  - f. “Modeling corrosion of post tensioned structures” – Open
  - g. “How can you use SLP to demonstrate sustainability?” – A. Aldykiewicz, P. Tourney

- h. New topics?
- 8. New Business
- 9. Liaison with Other Committees
  - a. 222 (Corrosion)
    - i. 123 Forum: Do we know what the chloride Threshold is for Reinforcing Steel Corrosion?
      - 1. Mohammed Kahn, Randy Poston, Per Fidjestøl, Dave Whitmore, Tracy Marcotte, Carolyn Hansson
      - 2. Side topic: who would want to visit old San Juan anyway???
    - ii. Technical Session “New Developments in Understanding Steel Reinforcement Corrosion Thresholds in Concrete”, Wed. Oct. 17<sup>th</sup>, 9-12 pm, Salon 5
      - 1. Carolyn Hansson, Eric Samson, Paul Tourney, Neal Berke, David Trejo, Scott Humphries, Dave Whitmore
  - b. 228 (Nondestructive Testing)
  - c. 343 (Bridge Design)
  - d. 345 (Concrete Bridge Construction, Maintenance, and Repair)
  - e. 364 (Rehabilitation)
  - f. 546 (Repair)
  - g. 562 (Evaluation, Repair, and Rehabilitation)
- 10. Next Meeting
  - a. Identical session slot in Spring? Will tailor to ballot outcomes.
  - b. Featured presentation?
- 11. Other Meetings of Interest
- 12. Adjournment

**Table 1: Status of State-of-the-Art Document Sections & Future Plans**

<b>Chapt.</b>	<b>Title (Reviewers)</b>	<b>Status</b>	<b>Future Action Required</b>
1.	Introduction (Marcotte, Bentz)	Drafting	Ballot required
2.	Environment, Design, and Construction Considerations (Aldykiewicz, Berke)	Balloted Feb. 2006 with 44 voting members. Reballoted Jan 2007 with 36 members. Negatives resolved Spring 2007 meeting. Review complete.	Final edits. Submit to ACI.
3.	In-service Inspection (Basheer)	Balloted in Jan 2006 with 43 voting members. Negatives resolved Spring 2006 meeting. However, method of resolving quorum will not meet ACI standards.	Reballot with negatives incorporated.
4.	Methods for Predicting Service Life (All, Lounis, Tourney, Chapdelaine)	Balloted in Jan 2006 with 43 voting members with completely revised wording. Negatives were not resolved at Spring 2006 meeting. Decision to maintain existing Chapter 4 background, and add new examples: Lounis, Chapdelaine, Bentz/Thomas New sections received from Lounis, Chapdelaine.	Ballot with Lounis and Chapdelaine sections.
5.	Economic Considerations (Lounis)	Balloted in Feb 2007 Ballot Passed	Editorial changes. Submit to ACI.
6.	Examples (All, Aldykiewicz, Lounis)	Balloted in Feb 2007. Negatives resolved during Spring 2007 meeting. New section to be balloted from Chapdelaine.	Ballot final example.  Reballot stochastic example to satisfy ACI requirements.  Editorial changes to probabilistic example.
7.	On-going work (Marcotte)	Drafting.	Ballot Required

**Table 2: TAC Review Deadlines**

ACI technical documents are reviewed three times each year. Documents must be submitted to ACI staff on time—deadlines are not flexible.

Activity	TAC Meeting Los Angeles, CA March 30-April 3, 2008	TAC Meeting Santa Fe, NM July 9-12, 2008
Final letter ballot issued	November 23, 2007	March 5, 2008
Final Letter ballot due	December 21, 2007	April 2, 2008
Committee-approved document submitted to staff for editorial review*	December 28, 2007	April 16, 2008
Document submitted to TAC and external reviewers	February 22, 2008	June 11, 2008
TAC review group conference calls	March 18-20, 2008	June 27, 30, and July 1, 2008
TAC meeting**	March 28-30, 2008	July 9-12, 2008

\* Committee-approved documents must include: an electronic draft with title, roster, synopsis, figures, graphs, tables, a membership balance statement (if the document is a standard), and a completed ballot summary with all negatives resolved.

\*\* To ensure a productive document review process, TAC expects one or two members of the committee to meet with the Review Group during the TAC meeting. For the convention, the discussion should be in person. For the summer meeting, the discussion may be in person or via teleconference.