

AGENDA
ACI 364 – Rehabilitation
Monday 2pm – 5pm
Oct. 25, 2004
Continental Room
Hilton San Francisco
333 O’Farrell Street
San Francisco, CA 94102
Phone: 415-771-1400
Fax: 415-771-6807
Fred Goodwin, Chair

Mission

Develop and report information, and develop and maintain standards for the rehabilitation, renovation, and preservation of concrete and masonry structures.

◆ Administrative

1. Introduction of committee members and guests.
2. Membership status

42 Voting Members, 31 Associate Members, 9 Consulting Members

After Membership Questionnaire

32 Remaining Voting members

9 Associate members wish to be transferred to voting status

Bruce Collins, Deng Yong, Edward Hollander, James Kasper, Marjorie Lynch,
S. K. Manjrekar, Jay Paul, Michael Paul, Habib Zein-Al-Abideen

3. Approval of Washington Minutes
4. Publication of FAQ’s in Concrete Repair Bulletin and Concrete Construction
According to ACI 364 Web Site we have had FAQ’s published on
 - Alkali Aggregate Reaction (FAQ 9)
 - Parking Deck Service Life (FAQ 12)
 - Surface Bruising (FAQ 5)
 - Hydrodemolition (FAQ 14)
 - Carbonation (FAQ 11)
 - Undercutting of Corroded Reinforcing Steel (FAQ 3)
 - Concerns About Cracks in a Repair (FAQ 19)

➤ *Are there any others that have been published?*
5. San Francisco Session (Beard/Kakade)

6. ACI 364.1
- Ballot Summary
 - Affirmative 21
 - Affirmative with Comments 2
 - Negative 0
 - Abstain 0
 - Not Returned 19
- 4 The 1/2 Rule **What options are available to increase the shear capacity of members**
 The 2/3 Rule within existing reinforced concrete structures? Item Meets
- 5 Comments resolution Item Meets

7. Report on Repair Manual-Inspection-Evaluation Documents (Heffron/Gaudette)
 Tabled from Spring 2004 Meeting

8. Report on Data Sheet Protocol (Goodwin/Vaysburd/Burke)

- Ballot summary
 - Affirmative 8
 - Affirmative with Comments 1
 - Negative 0
 - Abstain 1
 - Not Returned 31
 - Fails The 1/2 Rule
 - Fails The 2/3 Rule

9. **Program**

- ◆ (20 minutes) Peter Emmons Vision 2020
- ◆ (20 minutes) Benoit Bissonnette CREEP Phase I & II
- ◆ (20 minutes) Alex Vaysburd Repair Workshop May 2005 Sedona

➤ **Subcommittee/Task Group Reports**

10. TRRC Report/Status of submitted FAQ's.- McDonald/Bissonnette

FAQ 1 as sent to TRRC

What are the major sources of cost overruns on repair projects, and how can they be minimized?

- TAC Comments

FAQ2 as sent to TRRC

What options are available to increase the shear capacity of members within existing reinforced concrete structures?

- TAC Comments

FAQ 4

➤ TRRC Review

When uncoated reinforcing steel is exposed in a repair area, should the repair include the application of a protective barrier coating to the exposed portions of the reinforcing steel?

➤ FAQ 28

What is the optimum moisture condition of the concrete substrate immediately prior to placement of cement-based repair materials?

Proposed Revision FAQ 28

➤ FAQ 6 Lost Ballot Summary, Need to rebalot

How can the load capacity of a structure be determined when as-built structural drawings are not available?

➤ FAQ 15

What physical properties of cement-based repair materials are important to minimize cracking in repairs?

➤ FAQ 22

What does it mean when a pre-packaged repair material is labeled "shrinkage compensating" or "nonshrink"?

➤ FAQ 26

Can the in-place pull-off test be used as a quality assurance test, a long-term bond performance test, or both?

◆ **Discussion on FAQ's in process**

11. FAQ Draft 27 Revision (Hindo)

How do I know if I have adequate bond strength for a surface repair?

12. FAQ 24 TRRC (Whitmore)

When epoxy-coated steel reinforcement is exposed in a repair area, how should the reinforcement be treated prior to placing the concrete repair?

13. FAQ 25 Redraft (Kakade)

What do I need to know about moisture vapor transmission when placing coatings or coverings on slabs on grade?

➤ Suggest rewrite based on Fall 2004 Session-Table pending revision?

14. FAQ 23 (Kesner)

What should an engineer involved in the evaluation of the existing condition of a concrete structure know about nondestructive testing (NDT)?

15. FAQ 20 (Goodwin)

How important is the modulus of elasticity as a property of surface repair materials?

16. FAQ 29 Draft Revision (Gillespie)

What do I need to know before I recommend a surface applied corrosion inhibitor?

17. FAQ 35 Draft Review (Gillespie)

What are the advantages and limitations using FRP strengthening vs. conventional methods?

18. FAQ 31 Draft Revision (K. Nam Shiu)

What are the risks of installing a waterproofing membrane over a concrete floor slab with impervious metal decking in an existing structure?

- Revision tabled until Spring 2005 New York meeting.

19. FAQ 16 Revision (Paul/Kaminetzky)

Concrete water tanks often exhibit vertical cracks. What are the causes for the cracks and how are they repaired?

20. FAQ 18 Negatives (Hindo/Vaysburd)

How can in-place material properties and component characteristics be determined to support a structural evaluation?

- Tabled to Spring 2005 New York Meeting.

21. FAQ 17 (Sprinkel/Kakade)

Structures in contact with soil results in sulfate attack on the cement matrix. What is the remedy for repair/rehabilitation strategy?

◆ **New proposed FAQ's requiring assistance**

22. FAQ 36 Draft Status (Need Author)

What are the available methods/techniques to repair a leaking crack in a water storage tank?

- *Need first draft.*

23. FAQ 37 Draft Status (Whitmore)

How do I monitor and measure the effectiveness of embedded galvanic anodes in reducing rebar corrosion?

- *Need first draft.*

24. FAQ21 Draft Status (Gillespie)

For turnaround of a surface traffic bearing repair in less than 24 hours, what are the considerations for cementitious material selection?

- *Need first draft.*

25. FAQ 34 Draft Status (Whitmore/Jay Thomas)

Can cracks caused by corroding reinforcement be successfully repaired by FRP wrap?

- *Need first draft.*

26. FAQ 33 Draft Status (Whitmore)

Can cracks caused by corroding reinforcing steel be repaired successfully by epoxy pressure injection?

- *Need first draft.*

27. FAQ 30 Rewrite (Porter/Committee)

When should a bonding agent be used in a properly prepared concrete repair when using a cementitious repair material?

➤ *Need draft document*

28. Other New FAQ's

Committee Discussion

29. New Session-Published FAQ's

30. Other New Business

Committee Discussion

31. Adjourn