

**ACI COMMITTEE 437
STRENGTH EVALUATION OF EXISTING CONCRETE STRUCTURES**

**Main Committee Meeting
2015 ACI Fall Convention
Monday, November 9: 10:30 am – 12:30 pm
Denver, CO**

MEETING MINUTES

P. Ziehl, Chair – A. Larosche, Secretary

Voting Members

Paul Ziehl (Chair)	Antonio Nanni
Aaron Larosche (Secretary)	Jeffrey S. West
Nicholas J. Carino	Carl Larosche
Diego Arabbo	Nestore Galati
Dirk Heindbrink	Filippo Masetti
Dan McCarthy	Ashok Kakade
	Jason Johnson
Andrew Krauklis	

Associate Members

Diego Arabbo	Mohamed ElBatanouny
Eric VunDuyne	

Visitors

Jeremiah Fasi	Andrew Grimaldo
Eva Lantsoght	Madison DeVine
Shannon Harrell	Bradley Waters
Ahmad Shahroodi	Leonardo Sanchez

1. Call to order – by Chair P. Ziehl

2. Attendee introduction (name and affiliation)

3. Approval of and changes to agenda

Motion made and approved

4. Approval of the last meeting minutes (document available at committee website)

Motion made and approved – No suggested changes

5. Announcements

- From the floor

Regrets were sent from the following Members

*P Gupta
N. Shu*

*S. Pessiki
J. Fraunhoffer*

6. Chairman's report

- Chair's remarks (P. Ziehl)
 - Focus of meeting will be to resolve remaining negative actions from past web ballot of ACI 437R-03.
- Membership (A. Larosche)
 - Membership Report
 - Voting Members-21
 - Consulting Members – 3
 - Associate Members - 32
 - Jason Johnson moves from Associate Member to Voting Member

7. Old business

7.1 Update: International Workshop, Friday, November 6, Denver, CO.

Chair Ziehl provides update from the International Workshop that occurred prior to the convention

7.2 Update: ACI 318-C, liaison and suggested modifications to ACI 437.2-13 and Milwaukee presentations

The following committee members led by N. Galati have volunteered to review the existing 437.2 document along with changes proposed by 318-C. These volunteers will report back to the committee recommendations on possible changes to the document, potential wording of changes, and a recommendation if changes should be made at this time.

N. Galati
F. Masetti
D. Arabbo
M. ElBatanouny

7.3 Load testing of an existing structure to be demolished (A. Lamanna)

Dr. Lamanna provides update of existing structure possibly to be used for load testing research. 2 possible dormitory facilities may be available for the purposes of testing.

Dr. Lamanna to be point of contact for additional information

7.4 Resolution of negatives and editorial comments, ACI 437R-03 - *Strength Evaluation of Existing Concrete Buildings (ACI Manual of Concrete Practice)*

The table below details the resolutions to negative comments reached during the Denver meeting. A new web letter ballot will be issued to resolve remaining negative comments not resolved during this meeting.

No.	Commenter Name	Ballot Item #	Page #	Line #	A, N, E	Comment
1.	C. Larosche	4		43	N	I am not sure we are establishing loads. Suggest rewrite for the evaluation of structural reinforced concrete elements. <i>Resolution: Persuasive. Text has been modified – ref current draft</i> <i>Voted Affirmative = 10, Negatives =0, Abstentions = 1</i>
2.	G. Tumialan	11		190	N	Include “project specifications” as one of the project documents to be reviewed. <i>Resolution: Non-persuasive, currently in document.</i> <i>Voted Affirmative = 10, Negatives =0, Abstentions = 0</i>
3.	D. McCarthy	14		994	N	While I acknowledge that the 562 formula 6.4.3 appears similar to that referenced in Bartlett and MacGregor (1995), I do believe that the 562 formula adjusts only for variation of core strength (V) which is a statistical value (defined in ACI 214 as relating to standard deviation divided by mean core strength), not for factors accounting for core diameter, core length to diameter ratio, moisture condition, coring damage or presence of rebar. <i>Resolution: Persuasive, text modified – reference current draft.</i> <i>Voted Affirmative = 10, Negatives =0, Abstentions = 0</i>
4.	D. McCarthy	21		1188	N	For an analytical evaluation, the load factors and load combinations should still conform to 318, not 437.2. Or do we want to refer to 562, which gets you back to 318 for load factors and load combinations, but has different strength reduction factors than 318 specifically for strength evaluation? The load factors, load combinations, and strength reduction factors of 437.2 should be used only in the evaluation that includes in-place load testing. <i>Resolution: Non-persuasive. This negative vote dilutes the proof load concept. The proof load concept must be retained for strength evaluation. 562 and 318 are appropriate for repair design and new construction design. – Negative withdrawn</i>
5.	N. Galati	22		1188	N	We should replace reference to “ACI 437.2” to “ACI 562 Section xx” as ACI 437.2 only provides load combinations for the LTM for load testing. <i>Resolution: Persuasive: text modified</i> <i>Voted Affirmative = 9, Negatives =0, Abstentions = 0</i>

7.5 J. West review of ACI 437.1R-07

Vote – Committee to revise 437.1R-07

J. West provides opinions of his review of 437.1R-07 and suggests that the document be saved and modified.

Committee votes to revise document. Voted Affirmative = 9, Negatives =0, Abstentions = 0

Volunteers to aid in the revision of document include:

J. West

D. Heidbrink

M. ElBatanouny

N. Carino

8. Liaison members’ reports

8.1 ACI Repair Committees

- ACI TRCC - Nanni
- ACI 562 - Larosche/Nanni

9. New business

9.1 Presentation by Dr. Jeff West related to applied test load

9.2 ACI 350 Load Testing Standard

10. Open discussion

11. Adjourn