



American Concrete Institute

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Meeting Agenda #68

365: Service Life Prediction Orlando Monday, March 28, 2021 9:00 am to 12:00 pm Eastern C-Grand Sierra-I

Mission: *Develop and report information on the service life of concrete structures.*

Chair: Kyle Stanish

Secretary: Jose Pacheco

1. Administrative (3 min)

- 1.1. Membership Update:
 - 1.1.1. 23 Voting Members, 7 Consulting Members, 45 Associate Members, 2 Liaison Members
 - 1.1.2. New Associate Members: None
 - 1.1.3. Regrets: Carolyn Hansson, Katrin Habel,
- 1.2. Approval of the previous meeting's minutes
- 1.3. Approval of Agenda.

2. Meetings of Interest (2 min)

- 2.1 6th International Conference on Concrete Repair, Rehabilitation and Retrofitting (ICRRR 2022) October 4 to 6, 2022, Cape Town, South Africa, Prof. Hans Beushausen, University of Cape Town, hans.beushausen@uct.ac.za; icrrr2022.org
- 2.2 Others

3. Convention Sessions (30 min)

- 3.1 List of Possible Sessions
 - 3.1.1 Model vs Model (comparison of different models), Berke
 - 3.1.2 Durability and service life with 201, Pacheco
 - 3.1.3 Service Life and Residual Capacity of Concrete Structures, Chiadiac
 - 3.1.4 Implementing Service Life Design, Church, Nagi
 - 3.1.5 Service Life Modelling in design/build projects
 - 3.1.6 Evaluating model sensitivity for different parameters
 - 3.1.7 Probability analysis to focus on importance of different parameters, Mahmoud
 - 3.1.8 Service life and ultra-high-performance concrete (liaising with ACI329)
 - 3.1.9 Performance specifications and Service Life Modelling – possibly joint with 329

4. New Document: Design Standard for Service Life Predictions (1hr)

- 4.1. Review of Document – Closed 3/22

4.2. Timeline:

Fall 2017 (Anaheim)	Identify Chapter Leads
Spring 2018 (Salt Lake City)	Chapter Outlines
Fall 2018 (Las Vegas)	Chapter Outlines
Spring 2019 (Quebec City)	First Ballot – Chapter 3
Fall 2019 (Cincinnati)	Initial Draft
Spring 2020 (Virtual)	Definitions Balloting
Fall 2020 (Virtual)	Revision & Balloting
Spring 2021 (Virtual)	Revision & Balloting
Fall 2021 (Virtual)	Overall Revision
Spring 2022 (Orlando, FL)	Overall Revision
Fall 2022 (Dallas, TX)	Revision to submit to TAC
Spring 2023 (San Francisco, CA)	Address TAC Comments

4.3. Next Steps

5. BREAK (15 min)**6. Technical Presentations (15 min)**

- 6.1 Wael Zatar, Marshall University, "Service Life Assessment and Extension of Transportation Bridge Infrastructure in West Virginia"
- 6.2 Mohammad Teymouri, Colorado State, "Chloride Desorption Isotherms"
- 6.3 Harshita Garg, University of Leeds, "Use of Artificial Intelligence for Analysing Electrical Resistance Sensor Data from Different Concretes"

7. Existing Document (10 min)

- 7.1 365.1 – Report on Service Life Prediction: Published 10/2017

Per TCM: Committees are expected to reapprove/revise/withdraw within 8 years. If the committee does not take action, TAC can reapprove or withdraw. We would need to do something by Fall 2025.

Propose: Volunteers to review current document and recommend what action to take.

8. New Document: Design Standard for Service Life Predictions (45 min)

- 8.1. Review of Document – Closed 3/22

9. Adjournment

- 7.1 The next convention meeting is scheduled for Monday, October 24, 2022 from 9-12 at Fall 2022 Convention in Dallas, TX.