

**Committee on Geological and Geotechnical Engineering  
Board on Earth Sciences and Resources  
National Academies of Sciences, Engineering, and Medicine**

**OCTOBER 10, 2017  
Room 208  
National Academies Keck Center  
500 5<sup>th</sup> St. NW, Washington, DC 20001**

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<b>10:30-4:30 OPEN SESSION Corrosion of Buried Steel in Earth Applications</b>
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- 10:30    Doors open
- 10:40    Introductions and session objectives Martin McCann, Chair, COGGE
- 10:50    Fundamentals of corrosion: Mechanisms, rates, and environment from a practitioner's perspective Jerry DiMaggio  
Applied Research Associates, Inc.
- 11:30    Corrosion from the materials science perspective Elizabeth Trillo  
Southwest Research Institute
- 12:10    Individual and small group discussion over lunch (to be served in the room)
- 1:10    Panel Discussion: Performance and asset management and the state of modeling
- Daryl Little, Bureau of Reclamation , Materials & Corrosion Lab  
Kyle Rollins, Brigham Young University  
TBD, Los Angeles Department of Water and Power (remotely)  
Ken Fishman, McMahon & Mann Consulting Engineers; Earth Reinforcement Testing
- Moderator: Priscilla Nelson, COGGE Member
- Panelists will each be given 10 minutes to provide their thoughts on the following questions, to be followed by discussion:*
1. How significant an issue is corrosion of steel in your domain?
  2. By what means do you detect corrosion and are your methods sufficient for your needs?
    - a. What mechanisms of corrosion do you detect most often and under what circumstances?
  3. What data are available, what are you doing with it, and is it sufficient to reduce uncertainties in your application?
    - a. How well do we model and predict lifecycle uncertainties associated with corrosion of steel?
    - b. How well have these predictive models worked?
  4. How do you respond to corrosion once you find it?
- 2:45    Break

- 3:00 Reconvene for group discussion:
- What should be included in a National Academies of Sciences, Engineering, and Medicine study?
  - Who might be interested in sponsoring such an activity?

Moderator: Martin McCann

4:00 Discussion of action items

4:30 Open session adjourns

## Webex / Teleconference Access

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### Meeting information

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Topic: COGGE Oct. 10 Open Session

Date: Tuesday, October 10, 2017

Time: 10:40 am, Eastern Daylight Time (New York, GMT-04:00)

Meeting Number: 748 492 870

Meeting Password: cogge\_open

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