



## **ADSC and DFI Micropile Joint Committee Minutes**

ADSC Annual Meeting 2021, Amelia Island, FL  
January 27<sup>th</sup>, 2021  
9:30-11:00 AM (Eastern Time)

Zoom Meeting is also available – Details to be provided via email

1. Call to Order & Welcome
  - a. Sign in Sheet
  - b. Introductions
2. Safety Moment
  - a. Peggy Hagerty - COVID discussion about respecting other's feelings regarding it.
  - b. Rick Marshall – Using the correct hoses and fittings for air compressors.
3. Approval of Previous Minutes
  - a. Jeff Segar (1<sup>st</sup>)
  - b. Charles Braun (2<sup>nd</sup>)
4. Old Business
  - a. ADSC/DFI Micropile Guide Specifications (Jon Bennet) – Intend to incorporate the new LRFD ASHTO spec and possible impacts to testing programs. There is a small task force that has been involved in review and will continue to be involved. Hollow bar is done and reviewed. Majority of Spec is ready to be submitted. AASHTO recently published an LRFD Construction Spec that includes testing, so that will be template for testing when LRFD is used.
    - Specification is ready to be submitted. Need to know who to send to for review. Send to Mary Ellen and Pete Speier.
  - b. Micropile Installation Guide – Transitioning Several Sections to new members for completion – Need to get this back on the priority list and close. Once sections are completed, will form task group to review.
    - i. Definitions & Construction Materials Sections Draft Complete
    - ii. Installation Methods Draft Complete – Under Review
    - iii. Materials QA/QC – Marc Mastrantuono – In progress
    - iv. Load Testing – Lance Kitchens/Horst Aschenbroich – In progress
      - Pete will send information.
5. New Business
  - a. End Bearing Micropiles – Goal is for committee to take a position on the practice and issue formal statement – Ed Laczynski will draft prelim statement to send to group for comment.

- Will get update from Ed before next meeting.
- b. Bridging Document for 2005 FHWA Micropile Manual. In Tucson, the following volunteered to be on task force: Charles Braun, Dennis Ambio, Dave Hicks, Jesus Gomez, Jeff Segar, Allen Cadden, Brent Robinson, Terry Holman
  - Pete will send an email to propose a meeting date in the next couple weeks.
- c. ASCE is putting together a Micropile Design Guide for electrical transmission industry. S Davidow is writing several chapters. Small group to be assembled to provide input. Expected publication end 2021. Objectives overlap the “Bridging Document”. – 80% complete, Horst Aschenbroich and Denis Ambio volunteered to review.
  - Close to complete. Allen Cadden has reviewed some of it. Will reach out to Steve to get a copy of the document and will send to Horst and Denis.
- d. Update FHWA/NHI Training Course (Cadden)
  - Not much for the committee to do. All contributions are complete. The work is being finalized. Silas will have all material in-house over the next month.
- e. Hollow Bar State of the Practice – (Robinson) Task Group formed in AER mtg in Tucson. Conference call was held in April 2020 to discuss potential topics and ask for document upload to share site. Three main things to look at are grout body diameter (TEI volunteered to monitor grout flowrate), use of centralizers, and corrosion protection. Not much movement since. This will be a collaborative effort between the AER and MP Committees.
  - Call scheduled for Thursday Feb 4<sup>th</sup> at 11am eastern for main group. Smaller group for grout flowrate to meet on Thursday Feb 11<sup>th</sup> at 11am eastern.
- f. IBC Allowable Stress Increase (Larry Johnson-GZA Environmental) – ACI318 now allows 100ksi reinforcement in certain situations and ASTM A615 now includes Gr100. Geocoalition Committee has made some proposed revisions that it will submit to IBC for consideration
  - Deadline for submitting final proposal is Jan 10, 2022. Initial hearing in Rochester NY in March 2022. Final Hearing in Louisville in September of 2022.
- g. AMPIS 2021: Need volunteers and to solidify prelim details
  - i. Tentatively September at Goettle (Cincinnati). Could conflict with other events that were also moved to September. World of Concrete & MineEXPO
    - Tentatively set for September. More to follow at IFCEE.
- h. DROS 2021: Need volunteers and to solidify prelim details
  - i. Likely in November at AH Beck in TX –
    - Scheduled for October
- i. NCCCCO Drill Rig Mgmt Committee (Kevin S/Rick M)
  - i. New, updated tests need to be created. Sub-committee to be formed, 10-15 people over the next year and a half to source updated questions for new tests. Committee to be set by March 2021. Contact Kevin or Rick to be included on the sub-committee.
    - Kevin Sharp – Working with NCCCCO to get new practical exams. Due to COVID, having issues for examiners taking renewal exams. Written

test is now computer based. Hoping to have the subcommittee by March. Reaching out to individuals to get added to the subcommittee to get more exam questions.

j. Denis – U of Maine – MP threaded joints

- Denis Ambio – University of Maine reached out to Denis about testing micropile threaded joints. Looking for funding and willing to match 1:1. Total amount they are looking for is approximately \$95,220. Looking for help with half. Will also look to NE ADSC Chapter for contributions.
  - a. Three specific questions this is to address.
    - i. What is the cross-sectional strength distribution at the threaded connection?
    - ii. Is the cross section of the threaded connection fully affected in tension?
    - iii. Will a center rebar contribute to bending capacity of the connection?
  - b. DFI project proposal is March 1<sup>st</sup>, 2021.
  - c. Result of the research will be specifications for Maine DOT. Could spread across the country.

6. Education/Upcoming Events

- a. IFCEE 2021: Dallas, TX – May 10-14, 2021
  - Go at this point. There may be a virtual component for presenters due to COVID. Registration is February 15<sup>th</sup>.
- b. SuperPile 2021: Philadelphia, PA – June 23-25, 2021
  - i. Good abstract interest.
  - ii. Registration will open in February 2021.
    - Will have an online component. There will be a full micropile session due to the amount of micropile abstracts received.
- c. AMPIS 2021: Location TBD (Tentatively at Goettle in Cincinnati) – September 2021 (TBD)
- d. DROS 2021: Location TBD (Tentatively at AH Beck Yard in San Antonio) – September 2021 (TBD)
  - Moving to October, Dates to be determined
- e. ADSC Fall Meeting 2021 – Vail, CO – Oct 25-27, 2021
- f. DFI 46<sup>th</sup> Annual Meeting: Las Vegas, NV – Oct 12-15, 2021
- g. ISM 2022 – Denver, CO – Meeting in February, possibly Fall - TBD

7. Government Activities

- a. FHWA MP Guide - FHWA waiting for final NCHRP Report
  - The research is complete. FHWA has signed off. Have not seen a product yet. After received, FHWA will go through it and update.
- b. Research – NCHRP micropile manual research – Update (Loehr)

8. Research

- a. TIP Testing for Micropiles – Currently TIP is the best option, but may be limited to micropiles that have a larger diameter and casing in upper portion. Goal is to find an actual project that can try it.
  - i. Denis Ambio and HUB had potential projects
    - Spoke to HUB and they are getting ready to do a test in 3-4 weeks.
- b. Micropile Connections – Jesus Gomez/Helen Robinson - Completed – under final review
- c. Theoretical Limits for Bond Length of MPs in Compression – possibly propose to professors/students/past scholarship applicants to do some research/analysis?
  - No movement. Looking for help to get this started.
- d. Grout Testing – Correlation of SG w/ Compressive – Need to research current reports (UDOT 2007) – GEI working on similar research – Does the committee want to state a position? Volunteer to read thru research and write a position paper?
  - i. Justin (Quanta) doing in house research
  - ii. Mary Ellen provided paper presented at ISM
    - Pete Speier has received the paper that was presented at ISM. Will send paper out to committee. No further updates.
- e. DFI Committee Project Fund
  - i. Buried Steel Corrosion Study – Both ADSC & DFI agreed to donate \$5k – Solicited parties to serve on ad hoc committee. Update (Silas/PHD)?
    - After Peggy is included in next meeting an update will be given.
    - Peggy: March 9<sup>th</sup> and 10<sup>th</sup>. Everyone can view the meeting. Peggy will send the invitation.
    - Silas: Opportunities for people, possibility for ADSC members to be involved with workshop type discussions. These discussions will be part of the meetings.
      - a. More information on this later
      - b. Virtual meetings have an open invitation for those that want to sit in.

## 9. Other

- a. Next Meeting: IFCEEE – Exact Date/Time TBD
- b. Election for Committee Chair
  - Pete Speier to continue as committee chair.

## 10. Meeting Adjourned –

- 10:46am Eastern
- Sue Frank (1<sup>st</sup>)
- Dave Hicks (2<sup>nd</sup>)