



Micropiles – Design & Construction

Oregon ASCE Geolnstitute Chapter

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Course Goal

Provide state-of-the-practice design tools & construction practices to expand, or initiate, implementation of safe & cost-effective micropile technologies.

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NHI Active Learning Approach

- Achieve desired outcomes
- Tap into your knowledge and skills
- Demonstrate that knowledge and skills are gained



Learning Outcomes

- Upon completion, participants should be able to:
- Identify -
 - who is involved?
 - what are their backgrounds?
 - why we are here?
 - The Oregon collective micropile experience
 - Instructors' micropile experience
- Understand the structure and nature of the course



Introductions

- Organizations / People
- Participants - self introduction
- Questionnaire



Introduction of Instructors

- Allen Cadden, PE, D.GE
- Tom Armour, PE, D.GE
- Scott Chambers, PE



Course Outcomes

Upon completion of this course, you will be able to:

- Briefly describe history & current status of micropile industry
- Identify potential micropile applications
- Describe or explain construction constraints, techniques and performance
- Assess feasibility of micropiles for a given application



Course Outcomes (cont.)

Upon completion of this course, you will be able to:

- Prepare conceptual & basic designs, and be able to evaluate contractor-submitted designs
- Describe construction monitoring & inspection requirements.



Specific ADSC Micropile Activities

- ADSC-DFI Micropile Committee
- ISM Organizational Body and Sponsor
- Funded Research
- Micropile Design Seminars
- Anchor and Micropile Installation School
- Participation in drafting micropile-related documents and short courses



Housekeeping



- Registration
 - AM & PM
 - CEU credits
- Breaks
- Lunch
- Restrooms



House Rules

- This is a training course, not a conference
- If you have a question, or require clarification,
Please Interrupt



Course Schedule

- Introduction
- Definitions, History, Applications and Classification
- Feasibility and Applications
- Design
- Construction
- QA/QC, Load Testing
- 2 Case Histories
- Panel Discussion





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Any Questions?

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