

Agenda

Evaluating and Repairing Foundation/Slab Damage

D. Chance,
J. Shaw

- Retrofit vs pre-construction
- Types of piers
- Evaluating/measuring foundation damage
- Foundation repair process
- Solution for slab settlement

Understanding and Diagnosing Foundation Issues

R. Jefferies

- Types of foundations throughout Utah
- Types of soils throughout Utah
- Expansive soils
- Causes for foundation settlement
- Solutions for foundation settling
- Ground improvement (pre-construction)

Science of Structures and Soils

B. Warner

- Typical loads on shallow foundations
 - Gravity loads
 - Lateral loads
- Typical loads on walls
 - Gravity loads
 - Soil loads
- Typical loads on slabs
- Soil mechanics and effects on structures
 - Soil properties
 - Bearing capacity
 - Soil settlement
 - Effects of water, frost and freeze/thaw cycle

Foundation Features, Materials and Functionality

M. Roblez

- Design and construction of shallow foundations
 - Continuous wall footings, column footings
- Design and construction of slab foundations
- Design and construction of basements and retaining walls
- Design and construction of specialty features: walk-outs, partially-exposed foundations

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Foundation Damage and Repair: Science, Materials and Techniques

Salt Lake City, UT - Friday, May 31, 2019



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Learning Objectives

You'll be able to:

Understand the impact of soils on structures.

Explore typical loads on foundations, including gravity loads and soil loads, and discuss the effects of water on foundation integrity.

Identify common foundation types throughout Utah, and identify causes of foundation settlement.

Talk about the design and construction of footings, slabs, basement walls and retaining walls.

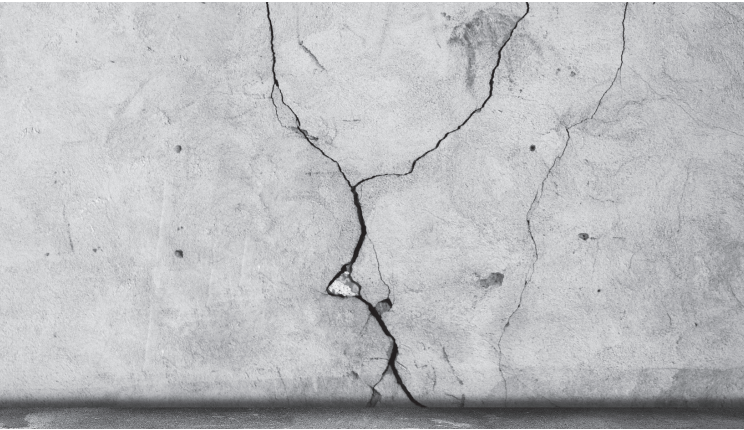
Get tips on evaluating and repairing foundation damage, and explore the foundation repair process.



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Identify common foundations used throughout Utah

Consider how foundations are impacted by soil properties, soil settlement and water in soils

Explore typical loads on footings, slabs and foundation walls

Examine issues in foundation design and construction

Understand and diagnose foundation problems and discuss foundation repair techniques

Continuing Education Credits

Professional Engineers

6.5 Professional Ed. Hours/PDHs

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6.5 HSW Continuing Ed. Hours

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Faculty

David Chance *Davenport Foundation Repair, West Jordan, Utah*
Mr. Chance has inspected and presented solutions for hundreds of residential and commercial properties throughout the states of Utah, Wyoming, Idaho and Nevada. In addition, he engages in public speaking and educational presentations to large engineering and architectural firms throughout the state. Raised in Salt Lake City, Mr. Chance grew up in the West Jordan area. After finishing high school at West Jordan High, he began working in the construction industry. He continued his education and became an IT technician at the IT Career Academy. He then moved onto construction management. He is the founder of a non-for profit group called Benjamin Smiles, providing and promoting monetary funds to people in need. For more information on his non-profit group, visit www.benjamin smiles.org. Mr. Chance also enjoys spending time with his children and granddaughter.

Josh Shaw *Davenport Foundation Repair, West Jordan, Utah*
Mr. Shaw started working for Davenport Foundation Repair in 2002 as a foundation crew member, while he was still in high school. After he graduated, he went on a L.D.S. mission to Sao Paulo, Brazil. When he returned home, he returned to Davenport working on the waterproofing and ptering crews. Mr. Shaw has attended many different training conferences where he has learned new ways to solve a variety of home repair issues. His experience has helped him gain a vast knowledge of foundation repair, concrete lifting and basement waterproofing. Mr. Shaw was born and raised in Utah and attended West Jordan High School. He attended college at the University of Utah and graduated in 2013 with a degree in Business Administration.

Rock Jefferies *BaseCo, Salt Lake City, Utah*
Mr. Jefferies is a certified continuing education instructor for foundation repair and waterproofing by Utah Division of Real Estate. He earned a specialty contractor’s license for piers and foundation stabilization. Mr. Jefferies has spent many years in the foundation repair industry. He has inspected thousands of homes throughout Utah, Idaho, and Wyoming.

Seminar Information

Marriott University Park
480 Wakara Way
Salt Lake City, UT 84108
(801) 581-1000

Tuition
\$289 for individual registration
\$269 for three or more registrants from the same company at the same time.

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Cancellations: Cancel at least 48 hours before the start of the seminar, and receive a full tuition refund, minus a \$39 service charge for each registrant. Cancellations within 48 hours will receive a credit toward another seminar or the self-study package. You may also send another person to take your place.

Mr. Jefferies specializes in both residential and commercial installations with extensive background in push pier, helical pier and micropile installations, especially in Southern Utah’s expansive soils. When he isn’t inspecting foundations or overseeing installations he enjoys traveling with his wife and children and is an avid U of U football fan.

Brian Warner *McNeil Engineering, Sandy, Utah*
Mr. Warner is a licensed structural engineer in Utah and a licensed professional engineer in six surrounding states. He is active in the American Society of Civil Engineers (ASCE), the Utah Engineers Council (UEC) and the Structural Engineers Association of Utah (SEAU). Mr. Warner has worked as a structural engineer since 2001 and as a construction worker for five years before that to pay his way through school as well as 10 years in the US Army Reserves as a combat engineer. He graduated with a master of science degree from the University of Utah with a geotechnical thesis emphasis. Mr. Warner’s engineering projects vary in construction materials and size and from new construction to retrofitting of existing structures, as well as performing peer reviews of other engineers’ designs for several cities.

Matthew Roblez *McNeil Engineering, Sandy, Utah*
Mr. Roblez is a board certified and licensed structural engineer, lecturer and published technical author. He has worked in the engineering industry since 1984 when he was a “print boy” at the age of 15 for a Salt Lake City company. Mr. Roblez is a co-owner of McNeil Engineering, an award-winning civil/surveying/structural engineering firm. He has been involved with many engineering projects that vary in size from large commercial to small residential and in scope from structural engineering to full design and project/construction management. Mr. Roblez has also has been chosen to appear many times on the local news concerning many different civil engineering issues. Mr. Roblez was recently awarded American Society of Civil Engineers – Utah Section Engineer of the Year award (2017). He serves as the chair of the ASCE Utah Section History and Heritage Committee and the Utah Section State and Government Relations Committee.

Additional Learning

Webinar Series
Passive House: Planning and Design
• **Energy Efficiency of Conventional Construction**
Thurs., May 9, 2019, 11:00 AM - 12:00 PM CDT
• **Passive House Standard: Purpose, Principles and Development**
Thurs., May 9, 2019, 12:30 - 2:00 PM CDT
• **Architectural Elements of Passive Houses**
Fri., May 10, 2019, 11:00 AM - 12:30 PM CDT
• **Mechanical Systems in Passive Houses**
Fri., May 10, 2019, 1:00 - 2:30 PM CDT

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Registration

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