1. Federal Wetlands Science, Law, and Compliance

- Federal Wetlands Science, Law, and Compliance:
  - Review wetlands science and identification, understand federal wetlands law and enforcement, explain permitting impacts to the waters of the United States, examine wetland law cases and studies, and explore wetland mitigation banking.

Presented by:

- Victoria K. Colangelo
- Terresa M. Bakner
- Andrew T. Der

Agenda Highlights:

- Learn how to work with HEC-RAS and the HEC-RAS user interface, how to assemble models, and how to simulate water flow in a given drainage system.
- Learn about drainage system design considerations, including hydrology, geology, soil properties, and vegetation.
- Explore the impact of land use activities on drainage systems, and learn how to mitigate potential impacts through design modifications.

Tuition: $319

2. Retaining Wall Selection for Detailed Decision Makers

- Retaining Wall Selection for Detailed Decision Makers:
  - Different types of gravity retaining walls, and the basic concepts of MSE systems.
  - Best applications and alternatives to cast-in-place retaining walls, advantages and challenges.

Presented by:

- Spencer D. Varnado
- Briania J. Schroeder
- Andrew T. Der

Agenda Highlights:

- Learn about the types of retaining walls commonly used in today's construction, the benefits and special concerns of mature trees, including agents of harm, protection planning and implementation, risk management, and monitoring and record keeping.

Tuition: $159

3. How to Evaluate Earth Pressure for Retaining Wall Design

- How to Evaluate Earth Pressure for Retaining Wall Design:
  - Learn about mature tree classifications, the benefits and special concerns of mature trees, including agents of harm, protection planning and implementation, risk management, and monitoring and record keeping.

Presented by:

- Bill Simpson, L.E.

Agenda Highlights:

- Learn about mature tree classifications, the benefits and special concerns of mature trees, including agents of harm, protection planning and implementation, risk management, and monitoring and record keeping.

Tuition: $109

4. Open Channel Hydraulics and Design

- Open Channel Hydraulics and Design:
  - Learn about mature tree classifications, the benefits and special concerns of mature trees, including agents of harm, protection planning and implementation, risk management, and monitoring and record keeping.

Presented by:

- Briania J. Schroeder

Agenda Highlights:

- Learn how to distinguish types of slope movement; how to strengthen soils using techniques, including modifying slope geometry, and using gravity, sheet pile, and anchored walls.

Tuition: $319

5. Erosion and Sediment Control

- Erosion and Sediment Control:
  - Learn how to work with HEC-RAS and the HEC-RAS user interface, how to assemble models, and how to simulate water flow in a given drainage system.
- Learn about drainage system design considerations, including hydrology, geology, soil properties, and vegetation.
- Explore the impact of land use activities on drainage systems, and learn how to mitigate potential impacts through design modifications.

Presented by:

- Peter Hanrahan

Agenda Highlights:

- Learn how to work with HEC-RAS and the HEC-RAS user interface, how to assemble models, and how to simulate water flow in a given drainage system.
- Learn about drainage system design considerations, including hydrology, geology, soil properties, and vegetation.
- Explore the impact of land use activities on drainage systems, and learn how to mitigate potential impacts through design modifications.

Tuition: $319

6. Texas Practical Site Engineering: Science and Techniques

- Texas Practical Site Engineering: Science and Techniques:
  - Learn about mature tree classifications, the benefits and special concerns of mature trees, including agents of harm, protection planning and implementation, risk management, and monitoring and record keeping.

Presented by:

- Laton Carr, P.E., C.F.M.

Agenda Highlights:

- Learn how to work with HEC-RAS and the HEC-RAS user interface, how to assemble models, and how to simulate water flow in a given drainage system.
- Learn about drainage system design considerations, including hydrology, geology, soil properties, and vegetation.
- Explore the impact of land use activities on drainage systems, and learn how to mitigate potential impacts through design modifications.

Tuition: $319

7. Mature Tree Management

- Mature Tree Management:
  - Learn about mature tree classifications, the benefits and special concerns of mature trees, including agents of harm, protection planning and implementation, risk management, and monitoring and record keeping.

Presented by:

- Bill Simpson, L.E.

Agenda Highlights:

- Learn how to work with HEC-RAS and the HEC-RAS user interface, how to assemble models, and how to simulate water flow in a given drainage system.
- Learn about drainage system design considerations, including hydrology, geology, soil properties, and vegetation.
- Explore the impact of land use activities on drainage systems, and learn how to mitigate potential impacts through design modifications.

Tuition: $109

8. Slope Stabilization and Landslide Prevention

- Slope Stabilization and Landslide Prevention:
  - Learn how to distinguish types of slope movement; how to strengthen soils using techniques, including modifying slope geometry, and using gravity, sheet pile, and anchored walls.

Presented by:

- Mark D. Jones, P.E.

Agenda Highlights:

- Learn how to work with HEC-RAS and the HEC-RAS user interface, how to assemble models, and how to simulate water flow in a given drainage system.
- Learn about drainage system design considerations, including hydrology, geology, soil properties, and vegetation.
- Explore the impact of land use activities on drainage systems, and learn how to mitigate potential impacts through design modifications.

Tuition: $319

9. The Urban Forest: Challenges and Opportunities

- The Urban Forest: Challenges and Opportunities:
  - Learn about mature tree classifications, the benefits and special concerns of mature trees, including agents of harm, protection planning and implementation, risk management, and monitoring and record keeping.

Presented by:

- Antonios Vytiniotis Ph.D., P.E.

Agenda Highlights:

- Learn how to work with HEC-RAS and the HEC-RAS user interface, how to assemble models, and how to simulate water flow in a given drainage system.
- Learn about drainage system design considerations, including hydrology, geology, soil properties, and vegetation.
- Explore the impact of land use activities on drainage systems, and learn how to mitigate potential impacts through design modifications.

Tuition: $319

10. Creating a HEC-RAS Model

- Creating a HEC-RAS Model:
  - Learn how to work with HEC-RAS and the HEC-RAS user interface, how to assemble models, and how to simulate water flow in a given drainage system.
- Learn about drainage system design considerations, including hydrology, geology, soil properties, and vegetation.
- Explore the impact of land use activities on drainage systems, and learn how to mitigate potential impacts through design modifications.

Presented by:

- Mark D. Jones, P.E., Principal, Hartech Engineering & Consulting, LLC

Tuition: $319

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