1. Retaining Wall Design and Slope Stabilization Techniques

Thursday, May 5, 2022 | 11:00 am - 2:15 pm CDT (incl. a 15-min break)  
Tuition: $319

Friday, May 6, 2022 | 11:00 am - 2:15 pm CDT (incl. a 15-min break)

Credits: Landscape Architects: 6.0 HSW CE Hours  LA CES: 6.0 HSW PDHS  Professional Engineers: 6.0 PDhs  Architects: 6.5 HSW CE Hours  AIA: 6.0 LU|HSW  Floodplain Managers: 6.0 ASCE PCs  International Code Council: 6 CEUs (SiteWork)

Agenda Highlights:
- Introduction to soil mechanics  Retaining walls - stability and types  LRFD vs ASD  Internal stability of retaining walls  Slope stability and stabilization  Biotechnical slope stabilization

Presented by Ibraheem Shunnar, P.E.

2. Innovations in Edible Landscaping

Thursday, May 12, 2022 | 11:30 - 2:30 pm CDT  
Tuition: $109

Credits: Landscape Architects: 2.0 HSW CE Hours  LA CES: 2.0 HSW PDHS  Professional Engineers: 2.0 PDhs  Architects: 2.0 HSW CE Hours  AIA: 2.0 LU|HSW

Agenda Highlights:
- Defining edible landscapes  Benefits of edible landscaping  Applications for edible landscapes  Appropriate plantings

Presented by Justin Rohner  Founder of Agrascape Technologies

3. Urban Stormwater System Design and Construction

Thursday, May 12, 2022 | 8:30 am - 4:30 pm CDT (incl. a 60-min break)  
Tuition: $319

Credits: Landscape Architects: 6.5 HSW CE Hours  LA CES: 6.5 HSW PDHS  Professional Engineers: 6.5 PDhs  Architects: 6.5 HSW CE Hours  AIA: 6.5 LU|HSW  Floodplain Managers: 6.0 ASCE PCs

Agenda Highlights:
- Exploring urban hydrology and environment  Reviewing regulations and doing stormwater modeling  Green stormwater infrastructure implementation  Designing a separate storm sewer system  City-scale strategic stormwater planning  Storm sewer design case study

Presented by Scott Southall, RLA, LEED AP, BD+C, ASLA, AICP  Principal at Earthcycle Design  Denise O’Meara, RLA, LEED AP, ASLA  Landscape Architect at Earthcycle Design  Christopher Dent, PE  Lexington-Fayette Urban County Government

4. The Tree Course: Science, Design, and Sustainability

Friday, May 13, 2022 | 9:00 am - 4:30 pm CDT (incl. a 30-min break)  
Tuition: $319

Credits: Landscape Architects: 6.5 HSW CE Hours  LA CES: 6.5 HSW PDHS  Professional Engineers: 6.5 PDhs  Architects: 6.5 HSW CE Hours  AIA: 6.5 LU|HSW  Foresters: SAF Pending  ISA: ISA Pending

Agenda Highlights:
- The scientific, economic, and aesthetic benefits of trees  If trees could talk - the secrets of healthy, mature trees  Trees are infrastructure: design elements that appreciate  Trees and site requirements: always at odds?  Trees that outlive designs: after the project is finished

Threats to trees

Presented by John Palmer, BCMA  PlanetCare Landscape and Arboricultural Services

5. Site Design: Grading and Drainage

Friday, May 20, 2022 | 2:30 - 4:30 pm CDT (incl. a 30-min break)  
Tuition: $319

Credits: Landscape Architects: 7.0 HSW CE Hours  LA CES: 7.0 HSW PDHS  Professional Engineers: 7.0 PDhs  Architects: 7.0 HSW CE Hours  AIA: 7.0 LU|HSW  Floodplain Managers: 7.0 ASCE PCs  International Code Council: 7 CEUs (SiteWork)

Agenda Highlights:
- Fundamental site design considerations  Site plan elements and design  Site evaluation  Understanding and complying with legal requirements  Site grading design  Site drainage design  Site inspection  Case studies

Presented by Daniel P. Messmer, P.E., D. GE  Project Manager with The Gateway Engineers, Inc., in Pittsburgh

6. HEC-RAS Modeling Basics

Monday, May 23, 2022 | 8:30 am - 5:00 pm CDT (incl. a 60-min break)  
Tuition: $319

Credits: Landscape Architects: 7.0 HSW CE Hours  LA CES: 7.0 HSW PDHS  Professional Engineers: 7.0 PDhs  Architects: 7.0 HSW CE Hours  AIA: 7.0 LU|HSW  Floodplain Managers: 7.0 ASCE PCs

Agenda Highlights:
- Introductions and exploring open channel hydraulics  Steady one-dimensional open channel hydraulics background and theory  HEC-RAS and Water Surface Profiling  History and Development of HEC-RAS  Demonstration 1 – Building a HEC-RAS model without GIS  Demonstration 2 – GIS basics  Demonstration 3 – Building a HEC-RAS model with GIS  Demonstration 4 – Typical HEC-RAS river reach and mixed flow  Demonstration 5 – Typical HEC-RAS bridge model  Demonstration 6 – Typical HEC-RAS culvert model  Demonstration 7 – Typical HEC-RAS.encroachment model

Presented by Gregory H. Nail, PhD, PE  Associate Professor, University of Tennessee at Martin

7. How to Design a Stormwater Management System for Residential Sites

Tuesday, May 24, 2022 | 2:00 - 4:00 pm CDT  
Tuition: $109

Credits: Landscape Architects: 2.0 HSW CE Hours  LA CES: 2.0 HSW PDHS  Professional Engineers: 2.0 PDhs  Architects: 2.0 HSW CE Hours  AIA: 2.0 LU|HSW  International Code Council: 2 CEUs (SiteWork)

Agenda Highlights:
- Objective Components  Stormwater management plan  Stormwater design parameters  Hydrologic cycle  Hydrology - modeling runoff  Hydrology - methods  Hydrology theory - HEC 2, TR20, TR65  Critical factors  Storm types, type I, II, III - extreme storms  Hydrgaph vs hydrograph  Hydrograph for various storm frequencies  Time of concentration, Tc  Curve numbers  Soils  Drainage area maps  Case study - DA 110  Detention basin design  Energy equation  Culvert design

Tuition: $319

8. Soil Mechanics, Bearing Capacity and Slope Stability

Wednesday, May 25, 2022 | 8:30 am - 4:30 pm CDT (incl. a 60-min break)  
Tuition: $319

Credits: Professional Engineers: 6.5 PDhs  Architects: 6.5 HSW CE Hours  AIA: 6.5 LU|HSW  International Code Council: 6 CEUs (SiteWork)

Agenda Highlights:
- Soil investigation and classification  Reviewing hydraulic and mechanical properties soils  Determining and increasing bearing capacity  Determining and increasing slope stability

Presented by James "Jay" A. McKelvey, III, P.E., D.GE, F.ASCE  Director - Geotechnical Design Division at Earth Engineering Inc.

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