

NJSPE CONTINUING EDUCATION

Offering **6 PDH** credits per day for Professional Engineers in NJ, NY, PA and other states that accept NJ or NJSPE accredited programs. Earn **10 PDH** by attending both programs!



APR. 1, 2019

Crowne Plaza, Cherry Hill
2349 W, NJ-70, Cherry Hill, NJ 08002

- NJSPE EARLY Full day Member Rate: **\$275**
- Non-Member EARLY Full day Rate: **\$325**
- NJSPE EARLY, BOTH Days, 10 PDH, **\$500**
- Non-Member Early, BOTH Days, 10 PDH, **\$600**

LATE Rates take affect 8 days out from the date of the course; add \$40

APR. 29, 2019

The Palace at Somerset Park
333 Davidson Avenue, Somerset NJ, 08873

REGISTRATION INCLUDES:

On-Site Registrations are based on space availability with an additional fee of \$50. No exceptions. All registrations include Continental breakfast, lunch, all day refreshment breaks, and all CE sessions.

NSPE members from States other than NJ may take the member rate. Membership will be verified.

NOTE: Contributions and payments to 501(c)(6) organizations are not deductible as charitable contributions on federal income tax returns although they may be deductible as trade or business expenses. Substitutions are permitted if you are unable to attend. Registrant must email to: jlombardi@njpsi.com 48 hours prior to the event with the name, address, phone and email of the person taking your place.

NJSPE will accept cancellations with refund up to one week prior to the date of the program. A cancellation fee of \$50 will apply. Refunds cannot be issued after that time but registration substitutions are permitted.

**JOIN
NJSPE
TODAY**
CLICK HERE

and use the member rate today! Call NJSPE at (609)393-0099 and speak to Membership Director, Kelly Biddle, or

REGISTRATION IS ONLINE: REGISTER HERE

April 1, 2019: Crowne Plaza, Cherry Hill Program

7:45 - 8:30 AM

Registration and Continental Breakfast

8:30 - 10:30 AM

Professional Engineering Ethics 101

Accreditation: 2 PDH credits, NJ, PA, & NY

Presenter: Larry Powers, Esq.

The learning objective is to expose the seminar participants to various engineering related professional and statutory codes of ethics to indoctrinate ethics awareness and an understanding of ethical standards common to all jurisdictions, including those of the participants, so that the participants understand the boundaries of ethical engineering behavior. The program is broken into several parts. Introduction to common statutory and regulatory ethics rules; review of the National Society of Professional Engineers Code of Ethics with examples of common ethics rules, illustrative case studies to consider, with emphasis on the similarities and difference between governmental and professional society sanctions; practical reasons for ethical practice, how unethical practice can present professional liability, legal, licensure, moral and public health, safety and welfare issues.

10:45 - 11:45 AM

A River of Progress for Green Infrastructure

Accreditation: 1 PDH credits NJ, PA, & NY

Presenters: Jeromie P. Lange, Senior Principal, Maser Consulting P.A.; Robert Karl, Supervisor of Source Water & Watershed Programs, Brick Township Municipal Utilities Authority

This course will review the development of a Watershed Plan that provides for improved Stormwater Management to Protect and Restore Critical Water Supplies and Important Tributaries. Specific measures to protect river water quality and flow characteristics as growth occurs over future decades along with numerous restoration projects to address areas of degradation will be discussed. A key focus is retrofitting antiquated stormwater infrastructure serving existing development using Stormwater BMP/Green Infrastructure approaches to restore groundwater recharge, reduce runoff and improve water quality. Also included is the development of a model stormwater management ordinance to address both new development and redevelopment.

11:45 - 12:45 PM

Lunch

12:45 - 2:45 PM

Threats to PE Licensure & NCEES Updates

Accreditation: 2 PDH credits, NJ, PA, & NY

Presenter: Jim Purcell, Technical Director of the New Jersey Asphalt Pavement Association

Part 1- Licensure Under Siege – Various Ways PE Licensing is Being Threatened & Part 2- An Update from the National Council of Examiners for Engineering and Surveying

The first part of the presentation will provide an overview of the threats to licensure in its various forms, which include legislative initiatives, executive orders, court decisions, and other means. It will include discussion of why these threats are a danger to the health, safety, and welfare of the public and how we as Professional Engineers can communicate our concerns. The second part of the presentation will include a description of what NCEES is and how the Council works to facilitate mobility, assist member boards in managing licensure, and current activities in advancing the licensure of engineering (and surveying).

3:00 - 4:00 PM

Preservation of Historic Bridges under an Emergency Condition

Accreditation: 1 PDH credit, NJ, PA, & NY

Presenters: Dave Hutchinson, Vice President, Highway Engineering, ARORA and ASSOCIATES, P.C.

This presentation will include a review of engineering techniques used to rehabilitate one of the oldest state-owned stone arch bridges in the nation from inception of an emergency repair which forced the closing of the heavily traveled bridge and roadway. The course will cover repair, reconstruction and rehabilitation options for stone arch bridges, linked newer bridges and adjacent historic structures. Also included will be the coordination necessary with stakeholders and various historic and environmental review agencies to produce a successful project.

APRIL 29, 2019: Palace at Somerset Park Program

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10:45 - 12:45 PM

Resilient coastal design in an uncertain future - demonstrated by recent catastrophic storm emergency reconstructions & Bridging the Gap between Utilities and the Transportation Project

Accreditation: 2 PDH credits, NJ, PA, & NY

Presenters: Drew Markewicz, PE, PMP, Senior Project Manager, NV5

In light of many recent severe coastal storms and increasing future risk, there is great need to develop a design and engineering solutions to help mitigate for these events. Presenter will share lessons-learned from recent catastrophic storm events and emergency reconstruction efforts. This presentation will discuss the engineering emergency response design and construction techniques successfully implemented for the Milepost 4 to 9 Route 35 section when this unexpected natural disaster occurred; requiring the complete replacement/reconstruction of a constrained major roadway corridor within an unprecedented accelerated schedule. Discussions will include accessing damaged roadway infrastructure and gathering survey and design data in an area devastated by a natural disaster; engineering solutions to provide sustainable pavement and drainage infrastructure (protection from future catastrophic storm events); innovative utility conflict coordination methods (well over 1000 conflict

locations), private property owner and agency coordination, along with several design, construction, and Project Management tools and techniques developed for this massive undertaking.

12:45 - 1:45 PM

Lunch

1:45 - 3:45 PM

Presenter: Joseph J. Skupien, P.E., P.P. - President, Stormwater Management Consulting

Mr. Skupien will present two (2) courses:

Course 1 - Stormwater Management Fundamentals

Accreditation: 1 PDH credit, NJ, PA, & NY

This course will review the fundamental aspects of Stormwater Management that can be defined as a System of Strategies and Measures to Manage the Creation, Collection, Conveyance, Storage, Treatment, Use, and Discharge of Stormwater Runoff to Prevent the Adverse Impacts of Land Disturbance, Development, and Redevelopment. Areas covered will touch on Runoff Drainage and Conveyance, Flood and Erosion Control, Nonpoint Source Pollution Control, Watershed Planning and Design, Groundwater Recharge, Structural and Nonstructural Strategies and Measures.

Course 2 - Hydrograph Routings

Accreditation: 1 PDH credit, NJ, PA, & NY

Important aspects of Routings to be utilized in the Development of Hydrographs will be covered in this course. Routing can be defined as a Mathematical Procedure for Predicting the Change in Magnitude, Speed, and Shape of a Hydrograph as a Function of Time. This presentation will cover Hydrologic and Hydraulic Routing Methods, Level Pool Routings, Storage Indication Calculations, Stage Storage and Stage Discharge Curves and Methods of Estimating Storage Volumes. Also included is a review of Computer Programs that may be Utilized in Performing these Calculations.

SPEAKER BIOS

Dave Hutchinson, PE, Vice President of the Highway Department at Arora and Associates, has over 25 years of experience designing and managing major highway and bridge projects. He has a diverse background, which includes both structural and civil design and project management.

Mr. Hutchinson has served as the Project Manager for the design of several constructed major highway projects, including the Route 206 over Stony Brook Bridges project; acting as a liaison for the project from the inception through construction. In addition, Mr. Hutchinson also serves as Arora's Quality Assurance Manager, and as such, he oversees all aspects of Quality Assurance on projects.

Mr. Hutchinson is a licensed Professional Engineer in New Jersey and New York and obtained a BS in Civil Engineering from Rutgers University in 1991.

Robert Karl is the Supervisor of Source Water & Watershed Programs for the Brick Township Municipal Utilities Authority (Brick Utilities). He is a graduate of Rutgers University with 20 years of water resource management work experience in both the public and private sector. His primary responsibility is managing Brick Utilities' water supply, which includes the Metedeconk River, the one billion gallon Brick Reservoir, and various groundwater sources. Through his administration of the BTMUA's Source Water Protection Program, Mr. Karl oversees a comprehensive watershed management program and led the development of a Metedeconk River Watershed Protection & Restoration Plan. He is a Certified Floodplain Manager and is actively involved with local floodplain management and coastal resilience projects.

Jeromie P. Lange, PE, PP, CME, CFM is a Senior Principal with Maser Consulting P.A., a leading consulting engineering firm serving multiple geographic regions of the United States. He has over 24 years of diversified experience in stormwater and floodplain management. This experience includes watershed modeling, stormwater management design and floodplain management in connection with land development and on behalf of various governmental entities. Mr. Lange is an active member of the New Jersey Builders Association Environmental Affairs Committee, NJBA / NJ Future Developers' Green Infrastructure Task Force, American Society of Civil Engineers, National Society of Professional Engineers, New Jersey Society of Professional Engineers, and Ocean County Society of Professional Engineers. He is a graduate of Rutgers University and is a Licensed Professional Engineer and Professional Planner in the State of New Jersey. He is also a Certified Municipal Engineer, Certified Floodplain Manager, and has been designated as an Engineering Expert Witness by the American Council of Engineering Companies.

Drew Markewicz, PE, PMP, Senior Project Manager, NV5, is a licensed professional engineer with 30 years of preliminary and final design experience relating to multi-disciplinary transportation projects. As the Director of Highways and Utilities at NV5, he is responsible for project management and technical oversight of several of the firm's large NJDOT and NJ Turnpike Authority highway and utility projects varying in size from \$3 million to \$100 million; most recently the Route 35 MP 4 to 9 Super-Storm Sandy Emergency Reconstruction project, NJTA Facilities Improvement Program Parkway South, and the GSP Interchange 41 & 44 Improvements. In addition, Mr. Markewicz is the Project Manager of the firm's Utility Engineering On-Call Agreements. Mr. Markewicz has outstanding credentials in the field of highway and utility engineering, providing both transportation agencies and utility companies with innovative, cost effective and streamlined project solutions - bridging the gap between utilities and the transportation project. He has lectured nationally on utility coordination and engineering and is a founding member and executive committee member of ASCE's new Utility Engineering and Surveying Institute (UESI). In addition, he is a certified Project Management Professional (PMP).

Lawrence P. Powers, is Partner and co-chair of the Construction Litigation Department at Hoagland, Longo, Moran, Dunst & Doukas, LLP. Larry's practice is focused on handling complex, multi-party construction related professional liability claims. He has tried numerous complex construction cases to a jury verdict. Admitted in 1984, he has over 35 years of experience in litigating, arbitrating and mediating construction disputes, regularly handling difficult loss prevention and risk management assignments for all of the major professional liability insurers. Larry serves as general counsel to AIA-New Jersey, the New Jersey Society of Professional Engineers and ASLA-New Jersey. He regularly represents design professionals in disciplinary matters before the New Jersey State Board of Architects and Landscape Architects and the New Jersey State Board of Engineers and Land Surveyors. Mr. Powers has achieved a peer review rating of "AV", the highest mark given by other members of the legal profession. He is admitted to practice in the state and federal courts of New Jersey. He was named "Lawyer of the Year 2012" in the Construction Litigation category by Best Lawyers® for the Woodbridge, NJ Metropolitan area in 2012 and 2018 as well as Construction Law category in 2017.

SPEAKER BIOS

James J. (Jim) Purcell is a Professional Engineer with over 30 years of experience in consulting engineering, primarily in the design of highways and other infrastructure. A resident of Lawrenceville, New Jersey, Jim has been a member of the New Jersey State Board of Professional Engineers and Land Surveyors since 2005 and has served twice as the board president. Currently, Jim serves as President of the National Council of Examiners for Engineering and Surveying (NCEES) and has served on a number of NCEES committees over the past 10 years. As President of NCEES, Jim is intimately involved in current activities related to professional licensure and the public health, safety, and welfare that licensure is intended to protect.

A licensed professional engineer since 1998, Jim is currently technical director of the New Jersey Asphalt Pavement Association and is an adjunct professor at The College of New Jersey, teaching courses in the fundamentals of engineering design and professional ethics. In his role as the Technical Director of the New Jersey Asphalt Pavement Association, he is responsible for representing the asphalt pavement industry as a liaison to government and private customers, assisting the members on technical issues, and providing continuing education to the members and the public. He also serves on several committees and councils for the National Asphalt Pavement Association.

Jim is a 1986 graduate of the University of Connecticut, receiving his Bachelor of Science degree in civil engineering. He is a member of several professional societies, including the National Society of Professional Engineers, the American Society of Civil Engineers, the American Society of Highway Engineers, and the Order of the Engineer. A member of the PESMC since 1997, Jim is also a past-president of the organization.

Joseph J. Skupien, P.E., P.P. - President, Stormwater Management Consulting

After graduating with honors from the College of Engineering at Rutgers University in 1973, Mr. Skupien joined the consulting engineering firm of Elson T. Killam Associates, Inc. where he rose to the position of Associate working exclusively in the fields of stormwater management, flood control, floodplain delineation, and dam safety. In 1988, Mr. Skupien joined the staff of the Somerset County Division of Engineering as Principal Hydraulic Engineer. His responsibilities included the hydrologic and hydraulic design of all County bridges, culverts, dams, drainage systems, and flood and erosion control facilities; preparation of NJDEP Flood Hazard and Dam Permit Applications; and the theoretical and technical development of the County's stormwater management and flood control design standards. He was also responsible for developing and operating the Somerset County Flood Information System that provided flood warning information from a County-wide network of rain and stream gages to county and municipal public safety and emergency management personnel.

In 2002, Mr. Skupien began Storm Water Management Consulting, LLC, a civil engineering firm offering consulting services to municipal, county, state, and federal agencies as well as corporations and other engineering firms. These services include the development of stormwater management plans, programs, ordinances, and standards; the hydrologic and hydraulic design of new and replacement bridges, culverts, dams, and flood control projects; watershed-based stormwater management and flood control plans; dam breach analyses and rehabilitation studies, floodplain and floodway delineations; preparation of NJDEP Flood Hazard Area and Dam Permit applications; and other hydrologic and hydraulic studies and projects. Mr. Skupien also continues to represent Somerset County on both the Green Brook Flood Control Commission and the Corps' Project Delivery Team for the Green Brook Flood Damage Reduction Project.