

NJSPE CONTINUING EDUCATION

Offering 6 PDH credits for Professional Engineers in NJ, NY, PA and other states that accept NJ or NJSPE accredited programs.



NOVEMBER 14, 2019

WSP, USA/Louis Berger

Morristown Offices

Mt. Kemble Corporate Park

412 Mt. Kemble Avenue

Morristown, NJ 07692

First Building is 412 Uptown. Enter Via Uptown Lobby. Go to the 4th Floor to register. Event is in the Training Rooms through the door and corridor to the left of the elevators.

Visitor parking is available in the front and rear of the building. In the rear of the building, the entrance is to the far left.

Questions: jlombardi@njpsi.com; 609-393-0099

- **NJSPE EARLY Full day Member Rate: \$275**
- **Non-Member EARLY Full day Rate: \$325**

LATE Rates take effect on November 8th; add \$40

REGISTRATION INCLUDES:

On-Site Registrations are based on space availability with an additional fee of \$25. No exceptions. Registration includes beverage breaks and lunch.

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.

**REGISTRATION IS ONLINE:
REGISTER HERE**

Review the Program and Schedule, below.

JOIN NJSPE TODAY

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

CLICK HERE

November 14, 2019 Program Schedule

8:15 AM

Registration and Continental Breakfast

9:00 - 10:00 AM

Introduction to Connected and Automated Vehicles

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

Speakers: K.R. Marshall, PE, Vice President and Senior ITS Manager, WSP USA, Inc.; Kathleen Swindler, PE, PTOE, Senior Traffic/ITS Engineer, WSP USA, Inc.; Jeff Randall, PE, PTOE, ITS Engineering Manager – Northeast Region, WSP USA, Inc.; Brian Reed, MCSE, CCNA, CCNP, CISSP, Manager of Geospatial & Applied Technology and Technical Principal, WSP USA, Inc.

This course will provide an overview of the engineering and design history of connected and automated vehicles (CAV,) the CAV industry and the various technologies being utilized and/or developed. Current pilots and trials ongoing around the world, increasing on-board automation in new vehicles, and some operational systems already in place, will be reviewed.

10:00 AM - 12:00 PM

CAV's – What's Hot? Keeping up with the Rapid Evolution of New Mobility and its Infrastructure needs

Accreditation: 2 PDH credits NJ, PA, & NY

Speakers: K.R. Marshall, PE, Vice President and Senior ITS Manager, WSP USA, Inc.; Kathleen Swindler, PE, PTOE, Senior Traffic/ITS Engineer, WSP USA, Inc.; Jeff Randall, PE, PTOE, ITS Engineering Manager – Northeast Region, WSP USA, Inc.; Brian Reed, MCSE, CCNA, CCNP, CISSP, Manager of Geospatial & Applied Technology and Technical Principal, WSP USA, Inc.

This course will provide an in-depth look at the breakthroughs in connected and automated vehicles technologies that are poised to revolutionize local and national transportation systems for decades to come, potentially bringing significant changes to the built environment and how residents live, work and move around their communities. As technology manufacturers, software developers, auto companies, universities and many other professionals continue to imagine and test these technologies and methods to optimize the nation's transportation system, agency officials, engineers and planners should have a working knowledge of them to make decisions about future local transportation needs and investments.

12:00 – 1:00 PM

Lunch provided for registrants

1:00 - 2:00 PM

How NJ, NY and PA agencies are preparing for connected and Autonomous Vehicles

Accreditation: 1 PDH credit, NJ, PA & NY

Speakers: K.R. Marshall, PE, Vice President and Senior ITS Manager, WSP USA, Inc. - Facilitator; NJDOT (Invited); PANYNJ – (Invited); NJTA – (Invited)

This course will provide an open discussion with the NJ, NY and PA agencies on the policy and technical issues their agencies are facing with the advent of CAV technology. Current policies and specific initiatives of each agency will be discussed, as well as their respective view of the agency on how their facilities will be impacted.

2:00 - 4:00 PM

Professional Engineering Ethics 101

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

Speakers: Lawrence P. Powers, Esq, Partner, Hoagland, Longo, Moran, Dunst & Doukas, LLP

The overall learning objective is to expose the seminar participants to various engineering related professional and statutory codes of ethics in order to inculcate 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.

Part I - This will be an introduction to common statutory and regulatory ethics rules, wherein the participants will be taught why they exist, how they govern their practice and what the practical implications of unethical behavior can be. Participants will be given examples of common ethics rules and some illustrative case studies to consider, followed by instruction on how violations of such ethics rules are commonly dealt with by the administrative agencies which have jurisdiction over their practice locales.

Part II - This will be an introduction to the National Society of Professional Engineers (NSPE) Code of Ethics, wherein the participants will be taught why they exist, how they were developed, how professional codes of ethics can affect their practice and what the practical implications of unethical behavior can be to members of professional engineering societies. Participants will be given examples of common ethics rules and some illustrative case studies to consider, followed by instruction on how violations of such ethics rules are commonly dealt with by NSPE and state engineering societies which have jurisdiction over their practice locales, with a particular emphasis on the similarities and differences between governmental and professional society sanctions.

Part III - This will be a discussion of the practical reasons for ethical practice, with examples of how unethical practice can present professional liability and legal issues, licensure issues and moral issues based upon case studies where unethical practice has resulted in the impairment of the public health, safety and welfare. Participants will be challenged with using their new knowledge to suggest resolutions for hypothetical ethics problems posed by the instructor.

SPEAKER BIOS

K.R. Marshall, PE has over 39 years of technical experience in the areas of traffic engineering, traffic operations, intelligent transportation systems (ITS), and telecommunications. As an accomplished project manager, he has successfully managed both large and small projects involving the preparation of traffic and systems engineering studies, designs, and deployments. His experience includes planning and design of ITS; development of congestion management systems; telecommunications planning and design; traffic signal system design; highway and street design analyses; freeway design, operations, and management; toll system planning and design; thoroughfare planning analyses; highway corridor alternatives studies; parking studies; and traffic safety studies. Mr. Marshall currently serves as the Eastern Region ITS/CAV practice builder for WSP's U.S. Advisory Services unit. In this role, he is responsible for growing the ITS and transportation technologies business in the eastern U.S. and fostering coordination and communication among the ITS practitioners in the eastern U.S. offices.

Lawrence P. Powers, Esq. 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 25 years of experience in litigating, arbitrating and mediating construction disputes, regularly handling difficult loss prevention and risk management assignments for all 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.

Kathleen Swindler, PE, PTOE is a supervising traffic engineer with a specialty in ITS. She thrives in the quickly evolving ITS field, working with clients to advance toward goals through policy, operational, and technological integration. Her experience includes systems engineering, ITS design, and transportation systems management and operations (TSMO). Ms. Swindler works effectively with clients, leveraging both local WSP staff and our experts across the country.

Jeff Randall, PE, PTOE is an accomplished manager with more than 35 years of domestic and international experience in traffic/transportation engineering, traffic systems management, and ITS. He has led business development and delivery efforts on a region-wide basis, led programs and managed major projects in both the public and private sectors, and sat on the Freeway Operations Committee of TRB (AHB20), a national standing committee, for nine years. His experience includes quality assurance and control, research, engineering and management of projects focused on safety, traffic control systems, traffic management centers, traffic operations, transportation systems management, environmental impact, transportation management centers, transportation systems management and operations, connected vehicles, and freeway and incident management and ITS planning, design and installation/integration/testing, as well as ITS training.

Brian Reed, MCSE, CCNA, CCNP, CISSP is a Systems Engineer, Senior Professional Associate and Certified Project Manager with WSP. Mr. Reed has an extensive background in managing multiple complex projects that involve geospatial services, systems engineering and application development, information management lifecycles, workflow and business process consulting and data transformation for a wide range of infrastructure clients including architecture, highways, transit and water/wastewater markets. His qualifications include system, network and software engineering, information technology (IT) management/support (including ITIL processes), enterprise resource planning (ERP) and asset management systems and communications planning, design and implementation. He also has extensive experience in enterprise IT management, risk benefit analysis, IT alignment strategies, database development and management, geographic information systems (GIS) design, GIS deployment, GIS management, website design, innovative technology and training applications for presentations and public meetings.

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