

# NJSPE CONTINUING EDUCATION

Offering 6 PDH credits for Professional Engineers in NJ, PA and NY!



## JAN. 24, 2018

Cherry Hill Crown Plaza  
2349 West Marlton Pike, Cherry Hill, NJ 08002

- NJSPE EARLY Full day Member Rate: **\$275**
- Non-Member EARLY Full day Rate: **\$325**
- NJSPE EARLY ½ day rate: **\$150**  
(select AM or PM)
- Non Member EARLY ½ day rate: **\$175**  
(select AM or PM)

**\*LATE Rates take affect nine days prior to the session date**

## JAN. 31, 2018

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

- NJSPE LATE\* Member Rate: **\$300**
- Non-Member LATE\* Rate: **\$360**
- NJSPE LATE ½ day rate: **\$175**  
(select AM or PM)
- Non Member LATE ½ day rate: **\$200**  
(select AM or PM)

### REGISTRATION INCLUDES:

On-Site Registrations are based on space availability with an additional fee of \$25. No exceptions. Full day includes Continental breakfast, lunch, afternoon break and all CE sessions. Half day AM includes Continental breakfast, lunch and the morning sessions prior to lunch. Half day PM includes lunch, afternoon break and the sessions after lunch.

**Current ASCE and 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](mailto: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 \$25 will apply. Refunds cannot be issued after that time but registration substitutions are permitted.

**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**

**REGISTRATION IS ONLINE:**  
**CLICK HERE**

# PROGRAM SCHEDULE

**8:00 - 8:45 AM**

**Registration and Continental Breakfast**

**8:45 - 10:45 AM**

**Smart Driving Cars: Implications for Transportation Engineers**

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

Presenter: Alain Kornhauser, PhD, Princeton

Autonomous Vehicle Engineering, Princeton University

The presentation will focus on Smart Driving Cars, the status of research and pilot initiatives, and the implications of these vehicles for transportation engineers.

**11:00 AM – 12:00 PM**

**A Look at Today's Energy Market**

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

Presenter: Vincent Wagner, PE

One of the most dynamic and rapidly changing segments in today's World is the Energy Market. No day passes without another headline about some area of that Key Global market. From the price of oil to renewables to environmental impacts, all of us are impacted by this critical and interwoven market. This presentation will focus on the North American perspective in the overall global context and offer an understanding of what the experts see for the future – at least currently.

We see daily news about oil prices, sources of natural gas, renewable energy technology, and the move towards Distributed Generation of electric power. Equipment suppliers to this market must stay up-to-date on trends, market drivers, and projections of future direction and needs.

In just the past few years, the USA has gone from being an importer to now becoming an exporter of oil and gas while moving towards renewables and other technologies to minimize the impacts to our environment to the maximum extent.

It is important that we understand this critical area of our economy and we'll take a glimpse at current forecasts that help predict the future direction of energy supply and usage trends. This ultimately translates to our pocketbook as a consumer as well as a taxpayer. Of course, the overriding concern is how all of this impacts our air, water, and issues such as global warming.

**12:00 – 12:45 PM**

**Lunch**

**12:45 - 2:45 PM**

**Professional Engineering Ethics 101**

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

Presenter: Lawrence 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.

**3:00 – 4:00 PM**

**Dredging of the Manasquan River Complex**

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

Presenter: Michael J. Marano, P.E. – Project Manager & Sr. Supervising Engineer, WSP | Parsons Brinckerhoff

Following Superstorm Sandy, many of the state-maintained navigable waterways were shoaled in with over-wash sediment due to the storm. In many cases, this sedimentation exacerbated the existing condition of the channels in need of dredging. This presentation will detail the post-storm response of the State of New Jersey and by NJDOT's Office of Maritime Resources, including a survey of 209 of the state channels. Dredging projects completed since the storm will also be briefly discussed, including projects in Cape May, Atlantic, Ocean and Monmouth Counties. The presentation will continue to discuss the recently completed dredging of the Manasquan River Complex, including design challenges faced by the design team, a detailed overview of the program, construction challenges and the successful completion of the project.

# SPEAKER BIOS

**Professor Alain L. Kornhauser, PhD** in addition to being Faculty Chair of Princeton Autonomous Vehicle Engineering (PAVE) at Princeton University, is Editor of the Smart Driving Cars Newsletter ([www.SmartDrivingCar.com](http://www.SmartDrivingCar.com)) and Board Chair of the Advanced Transit Association (ATRA). He is also in the process of creating a major Center for Research, Certification and Commercialization of Automated Vehicles at Fort Monmouth, NJ.

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**Michael J. Marano, PE** is a Project Manager and Senior Supervising Engineer in the WSP USA, Inc. Lawrenceville office. Michael has over 25 years of experience in leading transportation improvement projects for clients such as the New Jersey Department of Transportation, New Jersey Turnpike Authority, South Jersey Transportation Authority and various New Jersey Counties. Since Superstorm Sandy struck the New Jersey coastline in October 2012, Michael has been leading the design, permitting and construction efforts of WSP's team for the New Jersey Department of Transportation's Office of Maritime Resources (OMR) to identify and assess the storm impacts to the State Channel System, prioritize recovery projects, and plan and execute the recovery and maintenance program. Michael is the Deputy Project Manager for the WSP team on this effort in which the team was challenged with mapping 209 of the State-maintained navigation channels, preparing bathymetric channel survey plans, shoaling reports, and location of debris for almost 200 nautical miles (1.2 million linear feet) in just four months' time. After the damage to the State's Channel System was assessed, Michael is the engineer of record in implementing the State's \$15 to \$20 million annual maintenance dredging program.

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**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 25 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.

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**Vincent S. Wagner, P.E.** graduated from Drexel University with a BS in Mechanical Engineering. He then completed courses in the MBA Program at Rider College. He is a registered Professional Engineer licensed in the state of New Jersey. His professional career extended over the past 43 years in the field of turbomachinery which is used in all phases of the Energy Conversion Value chain. He is retired from Siemens Power Generation. The company formerly known as Delaval Steam Turbine most recently become Siemens Demag Delaval Turbomachinery, Inc, part of the Siemens Energy Group, headquartered in Berlin, Germany.

His professional experience focused in the rotating heavy equipment field that is used in all areas of Energy Conversion and includes Application Engineering, Test Engineering, Supply Chain Management, Customer Service, Marketing, Aftermarket Operations, VP – New Unit Marketing, Long Term Service Program Director and most recently Product Line Manager, Steam Turbines. This has involved extensive travel throughout the world.