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MARYLAND SOCIETY OF PROFESSIONAL ENGINEERS

ANNUAL CONFERENCE

OCT 5, 2017 | 7:30AM - 4:30PM | HILTON GARDEN INN | WHITE MARSH

## PRESENTATION DESCRIPTIONS

8:10-9:10 – General Session: **Engineering Code of Ethics** – This presentation will discuss the State Board for Professional Engineering, the Code of Ethics in the regulations, current requirements and an update of recent State Board activities.

*Presented by Steven A. Arndt, Ph.D., P.E., U.S. Nuclear Regulatory Commission*  
Campbell Rooms II & III

9:10-10:20 –General Session: **Professional Engineering: Better Laws & Regulations Panel**  
Panelists: Senator Gail H Bates, Delegate Neil C. Parrott and Delegate Samuel I Rosenberg  
Commentator: Christopher Costello

Campbell Rooms II & III

10:45-11:55 – Breakout Session

- Track 1 - **There is no “I” in Team but there is in Risk** - This presentation will explore liabilities and insurance considerations for engineering firms participating in Design-Build Projects, Joint Ventures and other Teaming Relationships  
*Presented by Justin Klein, Klein Agency*  
Campbell Room I
- Track 2 - **Building Acoustics**- Building acoustics engineering is the science of improving the quality of indoor speech lucidness and the suppression of outside noise to make work and living spaces more productive and pleasant areas. This paper will address inherent limitations in achieving building acoustic engineering desired outcome.  
*Presented by Monty Rahman P.E., PhD, MARS Group Inc.*  
Campbell Room II
- Track 3 - **Co-Generation Combined Heat and Power: Principals and Alternate Financing Methods** - The CHP presentation will cover topics including basic technologies, principals of successful design and implementation, government and utility rebate availability and financial options for owner/clients.  
*Presented by Jamie Raithe, PE, EBL Engineers, LLC and Stephen Weber, Flo-Tron Contracting Inc.*  
Campbell Room III

- Track 4 - **Leadership for Success** - This session will look at leadership traits such as attitude, goal setting, time management and communication skills. It will help you be aware of your leadership level and ways to improve your leadership and career growth.  
*Presented by Joel K. Oppenheimer, PE, STV Incorporated*  
Nottingham Room

12:00-1:30 – Lunch & Keynote Speech– **The Rebirth of Ellicott City**

Keynote: Larry Twele, CEO, Howard County Economic Development Authority  
Campbell Rooms II & III

1:40-2:50 – Second Breakout Session

- Track 1 -**Cyber Liability** - Justin Klein along with the Cyber Insurance Program VP from Victor O'Schinnerer & Company will explore the ever-increasing threats to engineers' network security (including claims examples plus a discussion of the legal duty of an engineering firm when faced with a cyber related claim) and available insurance solutions to cover these exposures.  
*Presented by Justin Klein, Klein Agency and Mark Schulz, Victor O. Schinnerer & Company*  
Campbell Room I
- Track 2 - **Effective Design Reviews and ProjNet Suite: Design, Bid, Build (DrChecks)** – Design Review Process – How does this really work? This session will focus on understanding a culture that controls cost, schedule and budget by applying effective design reviews. Full understanding of program requirements, effective collaborations, maintaining excellent records and finding significant variances to protect client from claims are some of the highlights from this presentation.  
*Presented by Bernie V. Rabe, P.E., MSCE, MSPM, Parsons Corporation*  
Campbell Room II
- Track 3 - **Innovation in Design – Laser Scanning, Drones, and AR/VR** – Laser Scanning, Drones and Augmented Reality - State of the art design practices are continuing to evolve through the integration of 3D image capture using laser scanners, use of drones, and use of Augmented and Virtual Reality techniques. Integrating these tools into BIM processes can yield designs that more accurately capture site conditions and client operational needs. Several of these tools and best practices will be discussed and demoed.  
*Presented by Mike Ozatar, P.E, Mike Ozatar, P.E, Mark Raybuck & Nicolas Begasse, Parsons*  
Campbell Room III
- Track 4 - **GIS Technology Innovations for Smart Cities**-This talk will explore the use of modern geospatial technology to support living GIS platforms being used to make city's smarter. We will explore how a live GIS platform is being used in Philadelphia Office of Emergency Management to support real-time situational awareness, tracking and reporting and how the technology can support other smart city initiatives.  
*Presented by Andrew Smart, GISP, EBA Engineering, Inc.*  
Nottingham Room

2:50-3:15 – Afternoon Break

3:20-4:30 – Third Breakout Session

- Track 1 -**Lessons from recent Const. Lawsuits**-need description  
Presented by Terrence M. McShane, Esquire  
Campbell Room I
- Track 2 - **An Introduction to Cellular Concrete (< 50lbs/ft3) and Advanced Engineered Foam Technologies** - This presentation is an introduction to Cellular Concrete and advanced foam technologies. Beginning with a brief history of the technology, this presentation reviews the basics of cellular concrete (as defined by ACI523).  
*Presented by Nico Sutmoller, Aerix Industries*  
Campbell Room II
- Track 3 - **Local Motors: The Revolution of American Vehicle Manufacturing** - Gone are the days of manufacturing vehicles in massive, environmentally unfriendly factories. Automotive innovation is front and center, with rapid technology development being the source of drastic changes in modern day manufacturing. Say hello to an advanced form of product development using open-source designs, additive manufacturing, and multiple micro factories.  
*Presented by Nikki Jones, Local Motors*  
Campbell Room III
- Track 4 - **Water Loss Management to Reduce Non-Revenue Water** – This presentation will help attendees better understand methods to reduce Non-Revenue Water with practical & cost-effective Water Loss Management.  
*Presented by Dominic D’Orazio, FlowNetworx*  
Nottingham Room