

Smart Cities: Technology + Urban Development

May 18, 2017

Agenda

- 7:30 am Breakfast
- 8:15 am Opening Remarks **Lisa Brothers, PE, ENV SP, LEED AP BD+C**
Chairman & CEO, Nitsch Engineering
- 8:30 am Keynote Address **Robert Kerns**, Division Chief, Development Division of the Department of Planning and Zoning, City of Alexandria, Virginia
- 8:55 am Panel Discussion **Michael Doenges**, Consulting Systems Engineer – Smart Cities and Internet of Things, Cisco Systems
- Luisa Paiewonsky**, Director, Center for Infrastructure Systems and Technology
U.S. DOT/Volpe National Transportation Systems Center
- Travis Sheehan**, Senior Infrastructure Advisor, Boston Planning and Development Agency
- Scott Turner, PE, AICP, LEED AP ND**, Director of Planning, Nitsch Engineering, Moderator
- 10:00 am Conclusion **Lisa Brothers, PE, ENV SP, LEED AP BD+C**
Chairman & CEO, Nitsch Engineering

Speaker Bios



Robert Kerns, Division Chief, Development Division of the Department of Planning and Zoning, City of Alexandria, Virginia

Rob Kerns is currently the Development Division Chief for the City of Alexandria, Virginia. He is a certified planner with 20 years of experience working with communities. Comprehensive planning is a major focus of his career, emphasizing the latest growth management, community design, and circulation strategies. To ensure implementation of a community's planning goals, Rob has drafted a wide variety of zoning and development regulations and worked cooperatively with development teams to achieve optimum community and private market results. His town revitalization and urban design experience, particularly transit-oriented design (TOD) projects, have enhanced and diversified his planning practice. Rob is part of the leadership of the American Planning Association (APA) as Secretary/Treasurer of the APA Divisions Council. He is a founding member and Past-Chair of the APA Sustainable Communities Division and continues to co-chair APA's Smart Cities & Sustainability Task Force.



Michael Doenges, Consulting Systems Engineer – Smart Cities and Internet of Things, Cisco Systems

Mike has spent over 15 years in the field of IT Networking covering many segments of both the commercial and public sector spaces. Today, Mike guides public sector customers in, and enables them to execute on, their digital transformation visions to further their own communities and cities to become smart, connected, and enabled. He has extensive experience in defining IT strategies with a specialty in Industrial Network Architecture. Along with his clients, Mike designs and executes new initiatives that optimize operations, elevate service, and strengthen capabilities allowing them to develop transformative solutions that deliver immediate results.



Luisa Paiewonsky, Director, Center for Infrastructure Systems and Technology U.S. DOT/Volpe National Transportation Systems Center

Luisa has served as Director of the Center for Infrastructure Systems and Technology at the U.S. DOT/Volpe Center since December 2014. In this capacity, she directs the work of 130 employees in seven divisions focusing on engineering and safety work for highway, rail, aviation, and maritime modes; innovative research; cyber-resilience and advanced vehicle technologies including automated and connected vehicles; and engineering, research, and policy support for a variety of U.S. DOT and Department of Defense partners. Prior to this appointment, she directed Volpe's support to FHWA in deployment of the Strategic Highway Research Program.

Prior to joining the Volpe Center in 2011, she was the first Administrator of the MassDOT Highway Division, created from the merger of the state's Highway Department and Turnpike Authority. Luisa holds a master's degree in City Planning from Boston University and a bachelor's degree in Political Science and Spanish from Mount Holyoke College.



Travis Sheehan, Senior Infrastructure Advisor, Boston Planning and Development Agency

Travis Sheehan is Senior Infrastructure Advisor at the Boston Planning and Development Agency (BPDA), directing the Community Energy Planning and Smart Utilities initiatives. Travis's work includes regional infrastructure studies, energy pilot projects, and trade articles. He focuses on the integration of local energy technologies with urban development such as energy generation and storage, district energy, and microgrids. Before joining the BPDA, Travis advised governments, corporate clients, and investors on resiliency and sustainability strategies for urban developments in the US and India. He received a dual master's degree from MIT in City Planning and Architecture.



Scott Turner, PE, AICP, LEED AP ND, Director of Planning, Nitsch Engineering

Scott Turner is a member of the American Institute of Certified Planners and a professional civil engineer with 23 years of experience. Scott leads Nitsch Engineering's sustainable stormwater and design practices. His project experience includes a mix of sustainability planning and design, as well as traditional land development. Scott has also been active in Nitsch Engineering's initiatives regarding climate change resiliency, including green infrastructure projects that help mitigate climate change impacts up and down the East Coast.

As a Professional Engineer, a member of the American Institute of Certified Planners, and a LEED AP in Neighborhood Development, Scott's background has given him the ability to assess both the big-picture planning goals and the specific technical aspects of a project. He is currently serving as the Chair of the American Planning Association's Sustainable Communities Division. Scott received his bachelor of science degree in Civil Engineering and Environmental Studies from Tufts University and a master's degree in City Planning from the Georgia Institute of Technology.

Other Presentations Offered

Nitsch Engineering is an AIA and ASLA provider offering continuous education units for various educational presentations. To help our clients learn more about site services and how they contribute to overall project success, we offer each of the presentations below to our clients as lunch and learns.

- **Sustainable Sites: Three Case Studies – 1 AIA LU; 1 LA CES PDH**
Provides terminology primer, site-related LEED review, and sustainable site strategies. Case studies of MIT, UVA, and Yale.
- **Green Infrastructure/Low Impact Development for Sustainable Sites – 1 AIA LU/HSW SD; 1 LA CES PDH**
Reinforces the principles of site sustainability by using LID to preserve sensitive resources, minimize adverse environmental impacts, and incorporate a series of decentralized BMPs that mimic natural systems and control the peak rate of stormwater runoff, promote groundwater recharge, and provide water quality treatment.
- **Stormwater Master Planning – 1 AIA LU/HSW SD; 1 LA CES PDH**
Addresses stormwater as part of a master plan to identify opportunities to integrate stormwater within the landscape and site stormwater facilities in terms of phasing, environmental impact, capital costs, maintenance and operations costs, and aesthetics. Case studies of Princeton and UVA.
- **Sustainable Stormwater Solutions – 1 AIA LU/HSW SD; 1 LA CES PDH**
Reinforces the principles of sustainable site design and stormwater management, and demonstrates how stormwater measures can be applied in a large-scale city-wide program, to a campus-wide application, at a large urban park, on a single building site, in a city intersection and an alley, and for small infill projects.
- **Complete Streets – 1 AIA LU/HSW; 1 LA CES PDH**
Discusses the components of a “complete street,” and through case studies shows how streetscape design strategies, leading edge technologies, and green infrastructure/low impact development techniques provide viable sustainable urban infrastructure.
- **Demystifying the Permitting Process: Getting Projects Built in Boston – 1 AIA LU; 1 LA CES PDH**
Outlines the site-related permitting hurdles for building projects in Boston, including an overview of the BRA, BWSC, BCC, and PIC site-related permitting processes, including site and building design, permitting, and project schedule issues.
- **Land Surveying and GIS – 1 AIA LU; 1 LA CES PDH**
Educates non-surveyors about the various types of surveys and how to acquire those services, and what GIS is and how it works with survey and CAD-based applications to benefit clients.
- **Effective Business Development Strategies: Gain a Larger Market Share – 1 AIA LU; 1 LA CES PDH**
Describes how to make the firm's business development efforts a team effort that is structured, productive, and fruitful, including ideas and tips to use personally and to share with others in the firm.
- **Creating a Business Development Culture in your Firm – 1 AIA LU; 1 LA CES PDH**
Describes what a business development culture is, explains why having one is important to a firm's success, and evaluates how to take steps towards creating one.

For information or to schedule a presentation, please contact Laurie Strickland, Director of Marketing, lstrickland@nitscheng.com.