NATIONAL ACADEMY OF BUILDING INSPECTION ENGINEERS
Presents
2019 BUILDING INSPECTION ENGINEERING CONFERENCE
Fairmont Copley Plaza
Boston, MA
Keynote Speaker

David Martini,
P.E., Fellow NSPE
President Elect 2018-19
President 2019-2020

National Society of Professional Engineers

Mr. Martini is the current President Elect for the National Society of Professional Engineers (NSPE) and has been an active member of NSPE and the Minnesota Society of Professional Engineers since 1994, serving as the President of the Minnesota Society in 2011-2012.

Matthew Klaus
National Fire Protection Association

Mr. Klaus is a Principal Fire Protection Engineer at the National Fire Protection Association, where he is responsible for NFPA documents addressing commissioning, integrated system testing and automatic sprinkler systems. Mr. Klaus has extensive international fire protection engineering consulting experience where he was a project manager for projects in Dubai, Abu Dhabi, Qatar, Bahrain, Kenya, and Great Britain, as well as projects across the United States.

Christian Simonelli
Boston Groundwater Trust

Mr. Simonelli was appointed as the Executive Director of the BGT in October 2014, having advanced from the position of Field Engineer. Simonelli advocates for groundwater recharge in all areas of Boston with wood pile supported structures.

SCHEDULE OF EVENTS
Friday, March 1, 2019

7:00 am- 8:30 am  Registration & Continental Breakfast
8:30 am- 8:45 am  Welcome and brief opening remarks from NABIE President Mark Waldman.
8:45 am- 10:00 am  David Martini, P.E.- President of NSPE- Keynote Address
                      The state of NSPE and collaboration between NSPE and NABIE in the past and in the future.
10:00 am- 10:15 am  Break
10:15 am- 11:45 pm  Matthew Klaus- National Fire Protection Association-
                      Principal Fire Protection Engineer- NFPA 25, Its Scope and Application.
11:45 am- 12:45 pm  Lunch
12:45- 2:30 pm  Syed (Shaz) Shahzer- Engineering Training and Applications Manager, Bosch Thermotechnology-
                      Modular Systems & Built in Redundancy.  Engineers are constantly looking to design the systems which provides its end users the best value for money. This presentation will cover the traditionally designed boiler systems and their current usage in the market. Then, these systems will be compared to the modular boiler systems and will analyze how these systems can be more energy efficient than the traditional designs. In addition, these systems are much easier to install and maintain in comparison to the traditional large systems. Due to the primary-secondary piping installation, it is easier to replace/retrofit these systems without affecting the system configurations.
2:30 pm- 2:45 pm  Break
2:45 pm- 4:30 pm  Mike Caneja- Senior IoT Product Manager, Bosch Thermotechnology- Multi Dwelling Building Design for Wifi Thermostats
                      Wi-Fi thermostats are becoming the norm for most residential dwellings within the United States, replacing conventional programmable thermostats. This trend is also present in multi-dwelling residential dwellings, such as apartment buildings and high rise buildings, as well as smaller commercial buildings such as restaurants and office spaces. As Wi-Fi thermostats are typically more expensive than their conventional counterparts and in situations where you do not want to spend a lot of money on expensive zoning solutions for your project, it can be difficult to find the right design in this situation. This course will outline some case studies and lessons learned from the Bosch team when designing residential Wi-Fi thermostats into an otherwise commercial project to help keep costs down.
SCHEDULE OF EVENTS  
Saturday, March 2, 2019

7:00 am - 8:15 am  Order of the Engineer Induction & Breakfast
7:00 am - 8:30 am  Breakfast
8:30 am - 10:15 am  Christian Simonelli- Executive Director, Boston Groundwater Trust. Wood Pilings, Groundwater, and the Boston Groundwater Trust. Christian Simonelli, Executive Director of the Boston Groundwater Trust will introduce NABIE to the exciting work being done to preserve Boston’s historic buildings and the importance of groundwater levels in doing so.

10:15 am - 10:30 am  Break
10:30 am - 12:15 pm  Edward Fronapfel, M.S.C.E, P.E., CBIE, CFCC, EDI, CBCP President, SBSA- The Use of LiDAR in Forensic Reporting. LiDAR enables a forensic engineering and architecture firm to accurately and expeditiously collect and process field data related to investigations of architectural, structural, and civil issues. The ability to review the data collected in the field ensures maximizing the collection of data necessary to formulate opinions and gather evidence. Using the point cloud data and 3D photography enables the investigator to perform accurate quantity takeoffs and develop meaningful interactive means to display the data in a jurisdictional setting.

12:15 pm - 1:15 pm  Lunch & Presentation sponsored by Simpson Strong Tie
Mark Jarvinen, P.E.- Senior Field Engineer, Simpson Strong Tie. Installation and Inspection of Post-Installed Anchors.
The goal of this presentation is to educate design professionals and inspectors regarding the specifics of current post-installed anchoring systems and to provide a more thorough understanding of anchor installation requirements, field inspection techniques, anchor field testing procedures, anchor performance and behavior, significance of Evaluation Reports, and pertinent Building Code provisions.

1:15 pm - 2:45 pm  Steven W. Smith, DISTO Divisional Manager USA/Canada, Leica Geosystems. Capturing Reality with the Leica BLK360. Since its announcement in late 2016 and its subsequent launch in the fall of 2017, the Leica BLK360 has been democratizing the reality capture of point cloud data. This scanner is affordable and packs a strong punch, bringing 3D data into construction workflows at the push of a button. This session will cover why the BLK360 is relevant for NABIE members, and how it can help them to use the latest 3D technologies to measure, document, and model.

2:45 pm - 3:00 pm  Break
3:00 pm - 4:45 pm  Lew Harriman, ASHRAE Fellow, Director of Research & Consulting Mason Grant- Honorary Theodore Simon Lecturer- The Secrets of Humidity Control.

5:00 pm - 5:30 pm  Update from Board of Directors
6:30 pm  Hospitality
7:30 pm  Closing Banquet
Speakers & Presenters

Lew Harriman
Mason Grant
Lew Harriman is the Director of Research & Consulting at Mason-Grant. Much of his work concerns humidity and moisture control in buildings and industrial processes which are affected by humidity and moisture, such as indoor mold, HVAC systems and the drying rates of materials and structures.

Ed Fronapfel, P.E.
SBSA Inc
Mr. Fronapfel is the owner of SBSA, Inc. providing Architectural, Structural, Civil and Forensic Engineering Litigation Support, Construction Management and Compliance Property Analysis, Repair and Rehabilitation, Insurance Claims Analysis. Fellow Member of the National Academy of Forensic Engineers. Ed is also a widely published author.

Melissa Roberts, AAI
USI Insurance
Ms. Roberts helps design firms avoid claims, manage their risks and purchase insurance. She is a past President of a/e ProNet – a national organization of Architects and Engineers insurance brokers, and a published author. Melissa currently serves on the ACEC IL Risk Management Committee and on the Board for the Northeast IL Chapter of the AIA.

SCHEDULE OF EVENTS
Sunday, March 3, 2019

7:00 am- 8:30 am  Continental Breakfast

8:30 am - 10:15 am  Melissa Roberts, AAI- USI Insurance- Risk Management for Professional Service Firms 101
Melissa Roberts of USI Insurance will lead NABIE conference attendees in learning about risk management that will help professional services firms reduce their overall risk.

10:15 am - 10:30 am  Break

10:30 am - 12:15 pm  Art Schwartz, CAE. Professional Ethics with Art Schwartz
Although engineers often make decisions using precise, scientific principles, answers to ethical questions are often varying shades of gray. Art Schwartz, General Counsel for NSPE will discuss this in an ethics course which meets many states requirements for ethics credits. This course is based upon the NSPE ethics educational resources that can help you prepare you for dealing with difficult issues.

12:15 pm - 12:45 pm  Closing Remarks