

NATIONAL ACADEMY OF BUILDING INSPECTION ENGINEERS
2017 ANNUAL BUILDING INSPECTION ENGINEERING

CONFERENCE



NABIE
NATIONAL ACADEMY OF BUILDING INSPECTION ENGINEERS

FEBRUARY 10-12, 2017
ORLANDO, FLORIDA



Keynote Speaker



Tom C. Roberts
P.E., FASEE, FNSPE

Assistant Dean Emeritus, College of Engineering,
Kansas State University
President-elect,
National Society of Professional Engineers

Tom has more than 40 years' experience in planning, organizational development, and leadership training programs. He worked for Black & Veatch for 16 years (including 11 years in human resources) and was responsible for engineering recruitment & leadership development at Kansas State University for 21 years. He formed Upward Consulting in 1989 and has served as a continuous quality improvement consultant for several manufacturing & service companies and educational institutions. Tom has presented information on systems thinking, professional development and our changing society to a wide variety of national audiences.

Tom is past-president of the Kansas Society of Professional Engineers (KSPE) and served nationally as first vice president of the American Society for Engineering Education (ASEE). He is past chair of the KSPE Government Relations Committee. Tom currently serves on the National Society of Professional Engineers (NSPE) Executive Committee as President elect and will be NSPE President in 2017-18. He recently served as Vice President Strategic Planning and Programs for the Boy Scouts of America Coronado Area Council.

Tom's responsibilities at both Black & Veatch and K-State included promotion of engineering licensure to practicing professionals, teachers, students and parents while mentoring high school students to make effective career choices. He is married to Karen who recently retired after 40 years of teaching and education administration. They have two sons, Greg & Chad.



Jacob Pope is the Regional Engineering Manager for the Florida Region of Oldcastle Precast. He manages a team of drafters, engineers and quality control personnel at each of the three manufacturing locations; Cape Coral, Orlando and Jacksonville. In this role, Jacob strategizes with sales and production teams to bring new product lines to different plants, implements designs that increase margin and plant efficiencies and acts as a liaison between the local plants and various governing agencies.

Prior to starting with Oldcastle, Jacob was President of a company he had founded that sold, manufactured and installed small span precast modular bridge systems. Jacob is a licensed engineer in the State of Florida. Jacob holds a B.S. degree in Civil Engineering from the University of Cincinnati.

SCHEDULE OF EVENTS

Friday February 10

7:30 - 8:30 AM Registration & Continental Breakfast

8:30 - 8:45 AM NABIE President's Remarks

8:45 - 10:00 AM Keynote Address NSPE President-Elect Tom Roberts, P.E. NSPE
"The Importance of Licensure and the Engineering Profession"

Changing the conversation to improve the public's understanding of engineering as well as discuss the positive impact of engineering on the economy.

10:00 - 10:15 AM Break

Gatorland was the first theme park to open in Orlando in 1949. Its main attraction was a 15-foot alligator, said to be the biggest in the world.



10:15 - 11:30 AM Jake Pope - Regional Engineering Manager for the Florida Region of Oldcastle Precast

Oldcastle Precast is a manufacturer of precast concrete, polymer concrete and plastic products in the United States. Our products range from utility vaults, reinforced concrete pipe, catch basins, drainage and septic tanks, to retaining walls, storm shelters, wall panels, concrete barriers, a variety of prestressed concrete products and more.

11:30 - 12:30 PM Lunch

12:45 - 2:30 PM Tour of Oldcastle Precast

With more than 80 locations nationwide and 3,000 plus employees, Oldcastle Precast is committed to upholding core values of reliability, quality and service in cutting edge ways. Oldcastle has a long and proud heritage as one of North America's largest corporations. We are a proud reflection of the hundreds of family businesses, local and regional companies and mid to large sized enterprises that together form the Oldcastle family. Oldcastle operates with a decentralized, diversified structure, letting individuals work in a small company environment while having the career opportunities of a large enterprise.

3:00 PM Return / Break



Downtown Orlando's Lake Eola is the result of a sinkhole and is a whopping 80 feet deep. The fountain near the center changes colors at night

3:30 - 5:00 PM Lee Rigby, Sr. - Inspector, ATIS Elevator Inspections

Providing familiarity and understanding of elevator systems and components; safety requirements; and building code references in IBC Chapter 30.

5:30 PM Meet & Greet

SCHEDULE OF EVENTS

Saturday February 11

7:30 - 8:30 AM *Order of the Engineer Induction Ceremony & Breakfast*
The Order of the Engineer was initiated in the United States to foster a spirit of pride and responsibility in the engineering professional, to bridge the gap between training and experience, and to present to the public a visible symbol identifying the engineer.

7:30 - 8:30 AM Continental Breakfast

8:30 - 10:00 AM *David Harro Sinkholes – Ground Subsidence Investigations*
Sinkholes – ground subsidence investigations and protocols used in Florida. Mr. Harro will be providing an understanding of the geophysical site characterizations; the geological subsurface testing methods and interpretations of geological testing data as it relates to ground subsidence investigations.

10:00 - 10:30 AM Break



The primary varieties of Florida oranges are Navel, Hamlin, Pineapple, Ambersweet and Valencia. The orange season typically runs from October through June.

10:30 - 12:00 PM (Theodor Sigman Lecturer) *Jeffery Stone, PhD, CBO – Part I: American Grown Timber Products*
Dr. Stone is currently a member of the Florida State Building Commission and will be lecturing on the use and benefits of American grown lumber and timber products.

12:300 - 1:00 PM Lunch

1:00 - 2:30 PM *Jeffery Stone, PhD, CBO - Part II: Use and Benefits of American Grown Lumber and Timber Products*
Dr. Stone is currently a member of the Florida State Building Commission

2:30 - 3:00 PM Break

3:00 - 4:30 PM *Lee Shoemaker - Metal Buildings Inspections*
An overview of existing standards and inspection requirements found in the building code regarding metal building systems. This session will be valuable to those new to the area of metal building inspections and an excellent refresher for those who are already engaged in the practice.

Saturday Evening

6:30 PM Hospitality

7:30 PM Dinner, Presentations & Entertainment

Florida has the longest coastline in the contiguous United States (1,350 miles or 2,170 km), and is the only state that borders both the Gulf of Mexico and the Atlantic Ocean.



Speakers & Presenters



Lee Rigby, CEI, is associated with ATIS Elevator Inspections and also provides elevator training and expert witness services in elevator related legal cases through Elevator Safety & Technical Services.

Lee has over 40 years elevator experience in the elevator industry as an installer, maintenance mechanic, AHJ elevator inspector, Engineer III for the Florida Bureau of Elevator Safety, (supervising all State Elevator Inspectors and making all elevator code interpretations for the State), and a private third-party elevator inspector and Partner in an elevator inspection and consulting firm.



Mr. David Harro is Professional Geologist and Licensed Drilling Contractor in State of Florida and Tennessee for the G3 Group. He has performed investigations for engineering, sinkholes and environmental projects over the last 20 years.

Mr. Harro is the inventor and patent holder for the Multi-Electrode Resistivity Implant Technique (MERIT). Over the past 3 years he has been responsible for research and development of MERIT as well as additional patent pending research projects.

Mr. Harro has working relationships with several prominent PhD's in fields of geophysics and engineering which has given him a wide range of support and help make MERIT a viable application to engineering projects.



W. Lee Shoemaker, P.E., Ph.D. has served as the Director of Research and Engineering for the Metal Building Manufacturers Association since 1994. He received his Bachelor's Degree and Ph.D. in Civil Engineering from Duke University and his Master's Degree in Civil Engineering from Tulane University.

Dr. Shoemaker's responsibilities with MBMA include directing the technical research and education programs as well as representing MBMA on several technical committees including ASCE 7 Committee on Minimum Design Loads for Buildings and Other Structures, and the AISC Committee on Specifications for Structural Steel Buildings. He was recently inducted into the Metal Construction Hall of Fame.

Keynote Speaker



Dr. Jeffery Stone, Ph.D.

Dr. Stone is a building codes & standards consultant with over 50 years experience in building construction, civil engineering, and public administration. He has a Ph.D. in public administration from the Florida State University and has taught graduate classes in public administration at the University of South Florida and technical courses in building codes and standards throughout the United States and Internationally. He has also authored technical articles on building science.

For over 30 years, Jeffrey has served on numerous building code and standards development committees, including those of: The American Society for Testing & Materials (ASTM); the American Society of Heating Refrigeration and Air-Conditioning (ASHRAE); the International Code Council (ICC) (and one of its founding organizations, the Southern Building Code Congress, International (SBCCI)); the International Organization for Standardization (ISO); and, the National Fire Protection Association (NFPA).



James "Byron" Evetts, PEAs founder and Principal Engineer of Existing Structures Engineering, Inc., Byron's primary responsibilities involve managing and directing the professional and technical staff, marketing and sales, as well as being involved in field and analytic activities.

After graduating with an Ocean Engineering degree from FAU, Byron attained progressively more responsible positions in the marine structural and the corrosion consultant industries, including extensive international experience. Byron is an industry recognized expert in evaluation, preservation and remediation of damaged and corroded structures.

In addition to being registered as a Professional Engineer in FL, GA, MS, LA, AL, SC and NC, he is an active leader in NACE, ACI, ICRI and FES and holds certifications as a NACE Coatings and Cathodic Protection Specialist and is certified by the Structural Engineering Certification Board. Byron is also an Urban Search and Rescue Advanced Structures Specialist. He has developed and taught technical courses to ICRI, NACE, government agencies, and condominium associations. Byron has provided expert witness testimony regarding protective coatings, corrosion and fire science.

SCHEDULE OF EVENTS

Sunday February 12

7:30 - 8:30 AM Continental Breakfast

8:30 - 10:00 AM Byron Evetts, P.E. - Concrete Corrosion Control 101
Reinforced Concrete Corrosion Control 101

Concrete is the most abundant construction material on earth. This session will help provide insight into the four elements which must be present for corrosion to occur. You will also learn the fundamentals of techniques used to mitigate and control corrosion damage in concrete structures including material selection, coatings, inhibitors, and cathodic protection repair procedures.

10:00 - 10:30 AM Break

Disney's
Magic Kingdom averaged
56,142 visitors per day in 2015
totaling 20,492,000 for the year and
is the #1 most visited theme
park in the world



10:30 - 12:00 PM Byron Evetts, P.E. - Building Collapse Rescue Awareness
The Rescue Engineer in a Collapsed Building Environment

This talk on urban search and rescue is insightful and important to any building inspection engineer. Structural collapse is most of the cause of victims being trapped in buildings and the first responders that are called to emergencies after earthquakes, hurricanes, tornadoes, terrorist activities, and other events need to know and understand the "multi-hazard" discipline of urban search-and-rescue (US&R).

Mr. Evetts is a specially trained professional engineer who performs various assessments for US&R during incident operations and holds a designation as a Structural Specialist (StS) and he will provide a brief overview of the StS Task Force mission and what you as a skilled lay person could do if called into action.

12:00 - 12:30 PM Closing Remarks

NABIE has petitioned the Florida Board of Professional Engineers (FBPE) for approval of the NABIE Conference agenda for continuing education credits for the current 2017 - 2019 biennium renewal at its upcoming February 2, 2017 Board Meeting.

Walt
Disney World Resort
encompasses 30,500 acres,
making it approximately
the same size as San
Francisco.

