



NEW YORK STATE SOCIETY OF
PROFESSIONAL ENGINEERS



TANDON SCHOOL
OF ENGINEERING

New York City Design Professionals Day

Brought to You by the
New York State Society of Professional Engineers
and
NYU Tandon Department of Civil and Urban Engineering

Tuesday, January 14, 2020 – 5 PDHs

NYU Center for Urban Science and Progress
370 Jay St., Room 202, Brooklyn, NY 11201

Agenda

8:30 am to 9:00am Registration & Continental Breakfast
Coffee and pastries provided by NYSSPE

9:00 am to 9:30 am Welcome & Speaker: Commissioner Melanie LaRocca

As Commissioner of the New York City Department of Buildings, Melanie La Rocca regulates and promotes the safe and lawful use of nearly 1.1 million buildings and more than 45,000 active construction sites. Previously, Commissioner La Rocca was Vice President of Development and External Affairs at the School Construction Authority (SCA), where she oversaw the Authority's Real Estate Group and worked with communities throughout the city to create new schools for the city's children.

9:30 am to 10:30am Retaining Walls and Parking Structures – 1 PDH

*By: Yegal Shamash, PE; Investigative Engineering Services & Jill Hrubecky, PE;
Forensic Engineering Unit*

With recent and pending code changes, property owners are or will be required by law to file compliance reports on these two unique structures. This presentation will review different types of retaining walls and parking structures, the maintenance difficulties and inspection nuances, and the details of the code requirements for each.

We estimate there to be 1600 private properties with retaining walls over 10ft in height that face a public right of way or means of egress. Many of these structures are nearing 100 years old and were initially built to prescriptive, not engineered, standards. With multiple incidents per year, our goal is to ensure these walls are properly assessed and reported to us on a regular basis, as is required by law since 2007.

Parking structures come in many forms and materials, whether it's detached cast-in-place concrete, or a few levels below grade of an office building with concrete-encased, steel framing. In all cases, these structures are home to a caustic environment thanks to the regular exposure to oil, gasoline, and de-icing solutions that come from their primary occupants. Beginning with the publication of the next NYC Building Code, owners of these types of structures will be required to have their parking structure inspected by an engineer and submit compliance reports every six years.

10:45 am to 11:45 am Construction Code Revisions Update – 1 PDH

By: Joseph Ackroyd, PE; Director of Engineering & Floorplain Administrator

This presentation will provide an update of the department's ongoing code revision update of the 2014 Construction codes. The course will review a selection of anticipated changes stemming from the latest code revision cycle. An update of various code development projects will be provided including the status of the department's efforts to develop a code for waterfront structures.

11:45 am to 1:00pm LUNCH BREAK - Lunch on your own

1:00 pm to 2:00pm Solar Requirements and Green Roof (LL92/94) – 1 PDH

By: Mercy Wong, RA

This course will review the current New York City construction code requirements for a sustainable roofing zone on building roofs and provide an overview of Local Laws 92 and 94 of 2019, which established requirements for the provision of solar or green roofs on new and existing building roofs. The discussion will focus on specific provisions, such as the applicability for existing buildings, areas that may be exempted, and requirements for high-sloped and low-sloped roofs. The course will also provide a brief overview of the administrative and filing requirements for compliance.

2:15 pm – 3:15 pm Energy Code Update– 1 PDH

By: Emily Hoffman, PE

This presentation reviews the anticipated changes to the 2016 NYC Energy Conservation Code. This course includes a summary of the substantive changes that will be made in the move from the IECC 2015 to the IECC 2018, the changes made by the New York State Fire Prevention and Building Code Council, the changes adopted from NYSERDA's NYStretch Energy Code, and the local provisions adopted by the NYC Department of Buildings.

3:30 pm to 4:30 pm Cranes, Codes and Regulations – 1 PDH

By: Ashraf Omran, PE; Executive Director Cranes & Derricks

This course will provide an overview of types of cranes, how they are designed, set up, inspected and utilized on job sites. Attendees will learn safety requirements for installation, use, operation and removal of cranes in order to avoid potential safety hazards. Local Laws related to crane modernization, personnel, event recorders and wind measurement will be discussed.