



# Engineers Joint Committee of Long Island

*Anthony Cacioppo, P.E., Chair*  
*Paul Lanzillotta, P.E., Vice-Chair*

## ENGINEERS WEEK WEBINAR SERIES

*Thursday, February 18, 2021*  
*Registration Deadline February 15, 2021*

**Place:** *Program will be conducted VIRTUALLY, via ZOOM. A link will be emailed to all Registrants prior to starting the program.\**

<b>Program:</b>	<b>8:30 am – 9:00 am</b>	<b>*Log in to ZOOM via the link</b>
	<b>9:00 am – 10:00 am</b>	<b>Morning Webinars</b>
	<b>10:00 am – 10:25 am</b>	<b>Break for next webinar log in</b>
	<b>10:30 am – 12:30 pm</b>	<b>Morning Webinars Cont'd.</b>
	<b>12:30 pm – 1:00 pm</b>	<b>Lunch Break</b>
	<b>1:00 pm – 1:25 pm</b>	<b>Break for next webinar log in</b>
	<b>1:30 pm – 3:30 pm</b>	<b>Afternoon Webinars</b>
	<b>3:30 pm – 3:45 pm</b>	<b>Break for next webinar log in</b>
	<b>4:00 pm – 5:00 pm</b>	<b>Afternoon Webinars Cont'd.</b>

### Webinars & Descriptions

***“Geospatial Tools & Surveying” (1 PDH)*** **9:00 am – 10:00 am**  
**Presented by: Christine Gayron, President, Gayron de Bruin, PC**

Surveying is one of the oldest forms of using engineering tools in construction. This webinar provides some of that history, and discusses the 3 main types of surveys; followed by introducing the “Modern GEOSPATIAL World” of the surveyor’s tool box: GPS, DRONES, LIDAR, etc.

***“Deep Energy Retrofits, Electrification of Heating in Multifamily Buildings” (1 PDH)*** **10:30 am – 11:30 pm**  
**Presented by: David Goldstein, P.E., President, Hydro Shell Technologies**

Reducing carbon emissions from the built environment is one of the biggest challenges facing our industry today. Deep energy retrofits of existing buildings will play an important role in meeting the challenge. A major part of the solution must be to transition buildings away from burning fossil fuels for space heating. Such a transition has proven challenging due to several factors including high cost, invasive installation, and strains on existing electrical infrastructure. This presentation outlines a strategy for achieving deep energy retrofits and introduces an emerging HVAC technology called Hydronic Shell.

***“Air Filtration Systems for Neutralizing (1 PDH)  
Viruses in Indoor Environments”***

**11:45 am – 12:45 pm**

**Presented by: Carl Saieva, President, Sartek Industries, Inc.**

In this webinar we will take a brief look at the evolution of filter with specific application to currently available systems for antiviral & antibacterial uses. New emerging technologies will be explored which seem better suited for viruses, and where & how CCN99 filtration systems can be implemented.

***“Ultra-Light Weight Foamed Glass Aggregate” (2 PDHs)***

**1:30 pm – 3:30 pm**

**Presented by: Archie Filshill, Ph. D, Geo-Environmental Consultant**

This webinar covers the physical & engineering properties of ultra-lightweight, foamed glass aggregate (UL-FGA), applications, design considerations and various case studies from projects that have utilized UL-FGA. Sustainability is key here, since the UL-FGA material is 100% curbside recycled glass.

***“Battery Technology, General Applications and  
Process Review” (1 PDH)***

**4:00 pm – 5:00 pm**

**Presented by: Frank Langro, Director, Product Management, Festo USA**

In this webinar we will take a brief look at the various types of batteries with a focus on the emergence of continuously rising demand for Lithium-Ion batteries. As a result of the many applications that apply lithium-ion batteries new advancements in the automated manufacturing of these cells are taking place. We will examine the process steps and automation employed in producing these batteries to meet the ever growing global need.

***“Intelligent Transmission Network Status & Planned Upgrades” (1 PDH)***

**9:00 am – 10:00 am**

**Presented by: Babak Enayati, Ph. D, P.E., Manager, Technology Deployment, NGRID**

Presentation will provide a summary of National Grid’s Intelligent Transmission Network (ITN) strategy and ongoing projects intended to meet the changing electricity demand, and to build a system that can integrate new forms of generation like renewables, and service the transportation sector of society – electric vehicles. ITN modernizes the transmission networks to ensure sustained resiliency and quick response.

***“Ocean Thermal Energy Conversion” (2 PDHs)***

**10:30 am – 12:30 pm**

**Presented by: Yongjian Gu, Ph.D, P.E., United States Merchant Marine Academy**

What is OTE? Ocean Thermal Energy of course! This webinar we will take a brief look at the *Conversion Technology* to take advantage of the power of the seas. The history, engineering, power plant design & challenges – technology, economics, etc. – will be detailed.

***“Machinery Monitoring: Marrying Vibration Monitoring and Wireless  
IIOT - What is Possible, and What Should be Avoided? 2 PDHs***

**1:30 pm – 3:30 pm**

**Presented by: John Lamp, Technical Team Leader, Neal Systems, Inc.**

Understanding vibration waveforms, distinguishing between vibration sensors & transmitters will be key learning objectives of this webinar. Tradeoffs between Hard-wired and Wireless technologies will be presented. Finally, the student can apply knowledge by designing a vibration condition monitoring system.

***“Structural Considerations When Installing Rooftop Solar Panels ” (1 PDH) 4:00 pm – 5:00 pm***  
**Presented by: Zohaib A. Alvi, P.E., Principal, ZA Consulting Engineering**

This webinar will highlight basic requirements set forth by International Building Codes for installing rooftop solar panels; and will also discuss mechanical fastening vs. ballasting methods. Lastly, the webinar will provide a primer on roof wind & snow loading effects due to solar panel installation.

***“Modified Bitumen Roofing Systems” (1 PDH) 9:00 am – 10:00 am***  
**Presented by: Rob Devenezia, Territory Manager, GAF**

Participants will be able to differentiate between the two most common modified bitumen roofing systems including APP and SBS. Installation methodologies will be outlined including best practices for waterproofing odd details and penetrations.

***“Building Energy Upgrades: Maximizing Steam System Efficiency” (2 PDHs ) 10:30 am – 12:30 pm***  
**Presented by: Philip J. Johns, CEO, Thermaxx, LLC; Suzanne Rowe Barrett, VP of Sales, Thermaxx, LLC; Steve Mosto, President, Mosto Technologies**

This seminar will present an overview of building efficiency opportunities, with an initial focus on insulation projects; followed by a broad array of other solutions ranging from steam trap inspections to building management systems. Discussion will include items specific to the NY area & utility incentives from National Grid and Con Ed.

***“Understanding Separately Derived Electrical Systems” (2 PDHs) 1:30 pm – 3:30 pm***  
**Presented by: Sal Ferrara, President and Director of the Electrical Training Center**

Participants will understand the difference between a separately derived and non-derived system. Understanding grounding and bonding for a separately derived system will be discussed. And the required work clearances for separately derived systems will be explored.

***“Eliminating the High Cost of Hydronic Pumping” (1 PDH) 4:00pm– 5:00 pm***  
**Presented by: Rick Smith, Regional Applications Consultant, Belimo Americas**

This presentation will examine how inadequate hydronic balancing will cause over pumping and low delta T. Low delta T is very costly but can be corrected. Keeping the water in the coils per their design will allow chillers, coils and pumps to perform according to their design specifications.

We will review savings calculations based on correcting low delta T.

# ENGINEERS WEEK WEBINAR SERIES REGISTRATION SHEET

Thursday, February 18, 2021

Registration Deadline February 15, 2021

**EMAIL COMPLETED FORM TO:**  
**lpellizzi@nysspe-li.org**

	Zoom A	Zoom B	Zoom C
9:00-10:00	<i>Geospatial Tools &amp; Surveying – 1 pdh</i> Select _____	<i>Intelligent Transmission Network Status &amp; Planned Upgrades</i> 1 pdh Select _____	<i>Modified Bitumen Roofing Systems</i> 1 pdh Select _____
10:00-10:15	<b>BREAK</b>		
10:30-11:30	<i>Deep Energy Retrofits Electrification of Heating in Multifamily Buildings -1 pdh</i> Select _____	10:30 – 12:45 (15 Minute Break) <i>Ocean Thermal Energy Conversion</i> 2 pdhs Select _____	10:30 – 12:45 (15 Minute Break) <i>Building Energy Upgrades: Maximizing Steam System Efficiency</i> 2 pdhs Select _____
11:45-12:45	<i>Air Filtration Systems for Neutralizing Viruses in Indoor Environments - 1 pdh</i> Select _____		
12:45-1:15	<b>LUNCH BREAK</b>		
1:30-3:30	<i>Ultra-Light Weight Foamed Glass Aggregate - 2 pdh</i> Select _____	<i>Vibration Monitoring Systems</i> 2 pdhs Select _____	<i>Understanding separately derived electrical systems</i> 2 pdhs Select _____
3:30-3:45	<b>BREAK</b>		
4:00-5:00	<i>Battery Technology Developments</i> 1 pdh Select _____	<i>Structural Considerations When Installing Rooftop Solar Panels – 1 pdh</i> Select _____	<i>Eliminating the High Cost of Hydronic Pumping – 1 pdh</i> Select _____

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