

SAVE THE DATES!

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Save the Dates for the 2021 VIRTUAL ENGINEERING SYMPOSIUM

Dates and Times:

Tuesday - Thursday, May 18, 19, 20 1:00 PM - 5:00 PM

Tuesday - Thursday, June 8, 9, 10 1:00 PM - 5:00 PM

An Opportunity to Earn up to 18 PDHs: Each session is \$30 (\$10 per PDH credit)

- 3 PDHs per day in May and June
- Can't spare 18 hours? Register for 3, 6, 9, 12, 15 or 18 PDHs
- Registration now open on the RES website (www.roceng.org)

Session 1: Electronics and Power

Date: May 18, 2021, 1:00-5:00

Overview: This session will focus on power transfer, static electricity on machinery, and electrical usage by electronic currency.

Audience: Plant and managers and engineers; manufacturing/ electrical/plant/process production/ energy/engineers, engineers and directors, policy makers. In addition, the general public will find interest as cyber currency continues to grow.

Session 2: Machinery Elements and Design

Date: May 19, 2021, 1:00-5:00

Overview: This session will provide some tools for mechanical engineers and include presentations on finite element methods; sealing components: and gears and reducers.

Audience: Manufacturing/mechanical design/civil/production/process/ energy engineers; plant maintenance technicians and managers; equipment purchasers; production managers and directors, policy makers.

Session 3: Environmental Challenges

Date: May 20, 2021, 1:00 – 5:00

Overview: This session will focus on the past (the Great Lakes), the present (subsurface sampling) and the future (emerging contaminants) The presentations include Lake Ontario lake level management; emerging contaminants in our environment; and geophysics as a means of exploring the earth beneath us.

Audience: Structural/ civil/site/environmental/ water treatment/ chemical/municipal/geotechnical engineers, chemists, and officials, chemists policy makers, and the general public.

Session 4 Public Projects of Interest

Date: June 8, 2021, 1:00 – 5:00

Overview: This session will highlight two notable public projects in Western New York: The Peace Bridge in Buffalo, and the Rochester Skate Park. The session also takes a step back into the preliminary planning stage with a presentation on Rochester's Complete Streets program

Audience: Civil/structural/construction/transportation/geotechnical/ municipal engineers. planners, the general public.

Session 5 Facility Infrastructure

Date: June 9, 2021, 1:00 – 5:00

Overview: This session will focus on those areas of commercial facility management that is largely hidden from the public, yet noticeable when problems arise: equipment vibrations, indoor air quality, and pavement maintenance.

Audience: As we emerge from this once-in-a-lifetime pandemic and begin to once again fill our facilities and parking lots, this presentation will be of interest to health and safety officers, equipment mechanics, civil/HVAC/structural/electrical engineers, building owners, and the general public.

Session 6 Codes and Requirements

Date: June 10, 2021, 1:00 – 5:00

Overview: This session will address code requirements in specific areas of building facilities, fire protection systems, and energy use.

Audience: Civil/mechanical/electrical engineers, code enforcement officials, contractors ,facility managers, and building owners.

SCHEDULE FOR VIRTUAL ENGINEERING SYMPOSIUM

Session 1 - Electronics and Power Tuesday, May 18, 2021		Session 2 - Machinery Elements and Design Wednesday, May 19, 2021		Session 3 - Environmental Challenges Thursday, May 20, 2021	
Memorial Day	Weeks	May 24	May 28;	May 31	June 4
1:00:00 PM	ATS Fundamentals William Schmeeloch Director of Engineering Kinsley Power Systems	Finite Element Analysis Validation Avoiding the Pitfalls of "Garbage In Garbage Out" Jeffrey Gardiner P.E. Principal XCEED Engineering and Consulting P.C.	Lake Ontario and St. Lawrence River Water Level Management: Plan 2014 Operational Concepts, Challenges and Trade Offs Bernie Gigas Owner Lake Ontario South Shore Engineering		
2:00:00 PM	Break	Break	Break		
2:30:00 PM	Bitcoin Energy Use – the Unreal Electricity Consumption of Virtual Cryptocurrencies Bill Bishop, P.E. Senior Energy Engineer Pathfinder Engineers	Overview of Sealing Components, Their Selection and Application Jim Drago, P.E. Principal Applications Engineer Garlock Sealing Technologies	Emerging Contaminants: Definition, Detection and Treatment Denis Conley Senior Associate Haley Aldrich		
3:30:00 PM	Break	Break	Break		
4:00:00 PM	Introduction to Static Control for Roll-to-Roll Manufacturing Dr. Kelly Robinson Owner Electrostatic Answers	A Practical Look at Gears and Reducers, and their most common problems Neville Sacks Owner Neville W Sachs, PLLC	Geophysics for Geotechnical and Environmental Investigations Mark Saunders Senior Geophysicist Golder Associates		
Session 4 - Public Projects of Interest Tuesday, June 8, 2021					
1:00:00 PM	Peace Bridge Rehabilitation Project Timothy Coyle, P.E. Chief Engineer Greenman-Pedersen, Inc. (GPI)	Acoustic Noise Abatement Of Elevated & Non-Elevated Mechanical Equipment Angela Waters, P.E. Structural Engineering Manager Kinetics Noise Control, Inc.	Plumbing-Civil Coordination for Utility Design James Basile, P.E. Civil Discipline Leader Clark Patterson		
2:00:00 PM	Break	Break	Break		
2:30:00 PM	Design and Construction of the Rochester Skate Park Amanda Phetteplace Landscape Architect Stantec	Using Needlepoint Bipolar Ionization to Create Healthy Indoor Environments David N. Schurk Business Development Manager Global Plasma Solutions	Compliance with NEC requirements for Fire Protection of Fire pump and Emergency Feeders. Timothy Franco Manager, Commercial Sales Northeast Pyrotentax		
3:30:00 PM	Break	Break	Break		
4:00:00 PM	Complete Streets Makeover an Exploration of Tactical Urbanism in Rochester Jon Hartley P.E. Associate, Transportation Engineer and Transportation Planning Stantec	Heater Scarification Terry Lucey Sales Engineer Highway Rehab Corp.	The Current and Future Energy Code – an Engineer's Notes on 2020 NYS Energy Conservation Construction Code, 2020 NYSStretch Energy Code, and ASHRAE 90.1-2019" Chonghui Liu (CL) Team Leader, Energy Services Poppl Design Group		

**Schedule subject to change...*