

**2023 ENGINEERING SYMPOSIUM IN ROCHESTER**  
[www.engineeringsymposiumrochester.com](http://www.engineeringsymposiumrochester.com)

Tuesday, April 25, 2023

PDH hours will be acceptable in New York State. Schedule subject to change.

7:30 to 8:15	Registration and Continental Breakfast				
8:15 to 8:30	Welcoming Remarks: Chris Devries, Chair of the 2023 ESR Committee				
8:30 to 9:30	Civil Engineering Sponsored by ASCE <b>The right tool for the job: Understanding project limitations to maximize the earth retention.</b>  Robert Ross, PE, Project Manager, Keller North America David Pecorini, PE, Design Engineer, Keller North America	Mechanical Engineering Sponsored by ASME <b>A Practical Look at Gears and Reducers, and their most common problems.</b>  Neville W. Sachs, P.E.	Electrical Sponsored by IEEE <b>EV-Chargers, Present And Future</b>  Sreeram Dhurjaty, PhD, SMIEEE, Distinguished Speaker, IEEE	Mechanical, Plumbing, & Fire Protection Sponsored by ASHRAE and <b>Value Engineering (PVC vs Cast Iron)</b>  Sal Terranova	Lighting and Power Sponsored by IES <b>Cooling Tower Isolation</b>  Angela Waters
9:30 to 9:45	Break				
9:45 to 10:45	RGRTA Zero Emission Bus Project  David P. Belaskas, P.E., Director of Engineering & Facilities Management at RGRTA	Non-metallic Piping Sealing Challenges  Matt Tones	Static Electricity Industrial Hazards and Mitigations  Kelly Robinson, PE, PhD	Rethink Water Heating  Chris Anderson	Cured in Place Concrete Pipe (CIPP) Rehabilitation  Jeffery Gardiner
10:45 to 11:00	Break				
11:00 to 12:00	Monroe County Strategic Energy Management  B. Andrew Fraser, Engineering Operations Manager, Monroe County Department of Environmental	Chain Reaction- Cycling for Climate Change Mitigation  William J. Bishop, PE	Applying AC Drives  Kevin Diehl	Design and Sizing Considerations for Oil Separators  Emily Miller and Randy Schafer	ATS Fundamentals. A Basic Understanding Of Types, Vocabulary And Functions  William Schneeloch
12:00 to 1:30	Lunch and Keynote Program: ASCE NYS INFRASTRUCTURE REPORT CARD John Folts, PE, MASCE Overview of the ASCE NYS Report Card grades that were released in 2022				
1:30 to 2:30	Civil Engineering Sponsored by ASCE <b>Rochester's I-390/I-490 Major Interchange Improvement Project - Phases 1 &amp; 2</b>  Mark J. Pawloski, P.E., Regional Construction Engineer, NYSDOT R6 Paul	Mechanical Engineering Sponsored by ASME <b>Medical Application for detecting Breast Cancer</b>  Satish Kandlicar- (professor at RIT)	Electrical Sponsored by IEEE <b>Paralleling Concepts</b>  Michael Hainzi	Mechanical, Plumbing, & Fire Protection Sponsored by ASHRAE and <b>Ground Source Heat Pump Systems: For a More Sustainable Future</b>  Tom Piekunka	Lighting and Power Sponsored by IES <b>Design Build Of A Helium Recovery, Compression, Purification And Liquidation System</b>  Jeffery Gardiner
2:30 to 2:45	Break				
2:45 to 3:45	Rochester's I-390/I-490 Major Interchange Improvement Project - Phase 3 & 4  Rob Schiller, PE, Project Engineer, Erdman Anthony and/or Chris Sichak, PE, Northeast Structures Manager, Erdman Anthony	TBD  TBD	Reliability Concepts  Michael Hainzi	Are your Buildings and its Systems Designed, Installed and Functioning Properly? Code Requirements, Common Mistakes, and Chonghui Lu, PE, CEM, LEED AP	Generators  Steven Huber
3:45 to 4:00	Break				
4:00 to 5:00	Celebrating Public Space with the ROC the Riverway's Rundel Library North Terrace Project Susan Matzat, PE; Consultant Project Manager; LaBella Associates, DPC	TBD  TBD	From Sand to Solar Farms: Silicon Photovoltaics enters Terawatt Era  Dr. Santosh Kurinec	Electrification of Legacy Central Heating Plants  Jim Parks	Back to basics: a Beginner's Introduction to Lighting.  Michael Trippe