We welcome you to this year’s conference!

Our theme, “Intent, Design, Solutions: Contexts in Engineering Education”, drew in experts, practitioners, and students from the entire region.

The ASEE St. Lawrence Section is proud to host this event, and we hope you come away inspired and reconnected to your work.

Acknowledging history of place, Cornell University welcomes you to the traditional homelands of the Cayuga People and the Haudenosaunee Confederacy.

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NYSETA OFFICERS 2018

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FEATURED SPEAKERS

April 20: Banquet Speakers. Transforming a Children’s Social Service through an Undergraduate Engineering Entrepreneurship Experience. Lead by Dr. Rick Evans, speakers describe an undergraduate engineering entrepreneurship course in which students partnered with outside entities to design a functional aquaponics greenhouse and prepare actionable business plans for SOS Children’s Villages in Chile. The aim was to contribute to SOS Villages’ financial independence and thereby enhance the security of their children.

April 21: Keynote by Vincent Brannigan, J.D., University of Maryland. Professor Brannigan’s primary research and teaching areas are product liability and government regulation of technology, with a special emphasis on the problem of dealing with novel technologies. He has been a consultant on technology and the law to the Office of Technology Assessment and other federal agencies and has assisted numerous local regulatory officials. We will hear him address issues of engineering failures, how engineering contexts lead to those failures, and possible solutions.
• Speakers should bring their own laptops if they need to project slides or other media. All presentation rooms have wifi, projectors, and a variety of ways to connect your laptop (HDMI, minidisplay port, and VGA; bring necessary adaptors) to those services. If you need a clicker to advance your slides, please provide your own.

• An interactive Google Map of main conference sites is here: https://tinyurl.com/ASEESTL2018

• On April 21, all talks will be held in Upson Hall, Cornell campus, 124 Hoy Road. On April 21, there is free parking available in the Hoy Road Garage, located at 176 Hoy Road.

• Lunch and poster session will be held in the Ivy Room of Willard Straight Hall, aka the Student Union. Organizers will guide participants from Upson Hall to Willard Straight, which is a leisurely 10 minute walk.

• All venues are wheelchair friendly.

• Free wifi is provided on campus. Login instructions are here: https://it.cornell.edu/wifi/connect-cornell-visitor-wi-fi
SECTION OUTSTANDING TEACHING AWARD 2018

Carl R. F. Lund, PhD
Distinguished Teaching Professor Department of Chemical and Biological Engineering, University at Buffalo, State University of New York

APRIL 20 EVENTS

• 3:30PM
Tour of the Cornell High Energy Synchrotron Wilson Laboratory. (free tour, 1 hr).
Special sign-up required in advance.

Located at 161 Synchrotron Drive on the Cornell campus. For metered parking, use the metered parking lot next to the Friedman Wrestling Center located at 610 Campus Road.

• 5:00 - 5:30PM
Casual reception and early check-in at banquet site, Moakley House, located at 243 Warren Road, Ithaca, NY 14850.

• 5:30PM
Banquet begins at Moakley House, with featured speakers.
APRIL 21, 2018 EVENTS
SPEAKER SCHEDULE

8:00AM-11:00AM: Check in, registration (Upson Hall, room 102)

9:00AM-10:15AM: Morning Sessions

8:30AM-9AM: Upson Hall, room 202 Opening remarks will be provided by Shane Rogers, ASEE Zone 1 Chair.

SESSION A1: ENGINEERING EDUCATION INNOVATIONS (Upson Hall, room 202)


• Improving Engineering Curriculum Through the Identification of Effective Motivational Strategies and Teaching Approaches. Tabitha L. Sprau Coulter, King’s College

• Performing Learning. How Can e-Portfolios Empower Students to Claim Developing Writing/Communication (and Other Related) Competencies. Rick Evans, Cornell University

SESSION A2: OUTREACH AND STEM INITIATIVES (Upson Hall, room 206)

• Small Scale Study on the impact of Incorporating Outreach into an Undergraduate Level Introduction to Nanotechnology Course. Chaitanya Ullal, Rensselaer Polytechnic Institute

• STEM School Outreach. Lesa Carter, Cornell University

SESSION A3: TECHNOLOGICAL ADVANCEMENTS AND METHODOLOGIES (Upson Hall, room 216)

• On Identifying the Critical Nodes and Vulnerable Edges for Increasing Computer Network Security. Paul Cotae, University of The District of Columbia; Mohamed Alshaer, University of The District of Columbia

• Antennas and Source Location, A Survey of Different Methods. Paul Crilly, U.S. Coast Guard Academy

• The Bridges of Pittsburgh and Allegheny County. Edward Davis, Queensborough Community College

SESSION A4: ENGINEERING PROJECT LEARNING (Upson Hall, room 222)

• Introducing Example Problems from Wide Ranging Industries into Statics and Mechanics of Solids. Meredith Silberstein, Cornell University; Hadas Ritz, Cornell University

• House in a Box: Making an Interdisciplinary Capstone Work. Erik C. Backus, Clarkson University; Marcias Martinez, Clarkson University; Michelle Crimi, Clarkson University

• Using a P3 Funded Project as Part of a Senior Design Course in Environmental Engineering. Stefan Grimberg, Clarkson University; Susan E Powers, Clarkson University

10:15AM-10:30AM: Break. Beverages will be in room 102.
KEYNOTE
Professor Vincent Brannigan
J.D., University of Maryland

10:30AM-11:45AM
Keynote, Phillips Hall 101

LUNCH AND POSTER
(Ivy Room, Williard Straight Hall)
SESSION: 12PM-1:30PM
Lunch is buffet, and we encourage interaction with the poster presenters starting around 12:30.

2:00PM-3:15PM
AFTERNOON SESSIONS

SESSION B1: STEM AND PROFESSIONAL PRESENCE
(Upson Hall, room 202)
Making Engineers Awesome Communicators: Cornell Students, MultiMedia/ Social Media, and Progression Practice— A Cooperative Effort Between Cornell and WSKG Public Media.
Julie Nucci, Cornell University; Nancy Coddington, WSKG; with David Syracuse, Anna Fang, and Samuel Bosco of Cornell University

SESSION B2: EXPLORING METHODS TO ADDRESS UNDERGRADUATE RESEARCH
(Upson Hall, room 206)
• Doing Research with Community College Students. Dariush H. Zadeh; SUNY Erie; Shohreh Moini, SUNY Erie

• Interdisciplinary Engineering Research Experience for Undergraduates. Jikai Du, SUNY Buffalo

SESSION B3: TECHNICAL INNOVATIONS
(Upson Hall, room 216)
• BCI: Talking with Brainwaves. Zack Salim, Jennifer Barker, Olivia Spellacy, Sriram Subramanian, Megan Yoerg, Devon Rennoldson, Corey Ropell, Ian Kaminer, and Arnav Matta, all of SUNY Buffalo

3:30PM-4PM: ICE CREAM SOCIAL AND STUDENT POSTER AWARDS
(Upson Hall, room 216).
CLOSE OF CONFERENCE.

4:30PM - END: ASEE ST. LAWRENCE BOARD MEETING
(Upson Hall, room 216)

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