ENGINEERING TECHNOLOGY LEADERSHIP INSTITUTE
WASHINGTON, D.C. OMNI SHOREHAM HOTEL | OCTOBER 9-10, 2023

ENGINEERING TECHNOLOGY LEADERS: TAKING THE NEXT STEPS
WELCOME TO THE 2023 ENGINEERING TECHNOLOGY LEADERS INSTITUTE (ETLI)

As a champion for engineering technology (ET) education, we hope you will contribute to and take from this event both new ideas and contacts. "Partnering, Mentoring, & Marketing" is the theme for this year’s meeting. We encourage you to participate in discussions in and out of sessions. Building ET leadership is essential to ensure a vibrant future for our students, programs, and industry.

In 2022, ETLI participants visited various government offices in the Washington region to discuss the value of ET education and explore opportunities for improvement. This was incredibly successful, after a couple years away during the pandemic. This year, we encourage your institutions to arrange meetings with your representatives on Wednesday, October 11. This may help us influence policy and expand awareness of ET programs and graduates. We will work to reinstate arranged Capitol Hill visits as part of the regular agenda in future conferences.

Two workshops on Monday, October 9, examine important elements of the education process: research collaborations and accreditation. Workshop 1 covers ways to participate in National Science Foundation (NSF) projects, focusing on mentoring and partnering for two- and four-year institutions. Workshop 2, as well as during lunch on October 10, will focus on ABET tips and tricks for ET accreditation and self-studies development.

Tuesday, October 10, starts with a keynote address from the director of the Renewable Energy and Sustainability Center at Farmingdale State College in New York. It will highlight successful efforts in preparing students for productive professional careers in this sector. The two morning sessions are designed to share best practices in hiring and mentoring faculty and discuss methods for two- and four-year collaborative partnerships. For many years, the public image and marketing of ET programs have been hot discussion topics. The afternoon session will focus on marketing our programs and communication that ET supports DEI-B (sense of belonging).

ETLI continues to be a vehicle for a national call to action. We mobilize our professional societies and accreditation agencies to work in a coordinated, strategic way to support ET leaders and champions. We encourage you and others to be involved by participating in this meeting and volunteering to join the leadership team.

We hope you enjoy the institute and have ample opportunity to network with your colleagues and leaders in the field.

John L. Irwin
ETC Chair
Michigan Technological University

Lara L. Sharp
ETLI Conference Chair
Springfield Technical Community College
ETLI COMMITTEE

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<tr>
<th>Name</th>
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<tr>
<td>LARA SHARP</td>
<td>ETLI Conference Chair</td>
<td>Springfield Technical Community College</td>
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<td>JOHN IRWIN</td>
<td>ETC Chair</td>
<td>Michigan Technological University</td>
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<td>MARTIN GORDON</td>
<td>Committee Member</td>
<td>Rochester Institute of Technology</td>
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<td>HUGH JACK</td>
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<td>Western Carolina UNIVERSITY</td>
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<td>BARBARA CHRISTIE</td>
<td>Committee Member</td>
<td>Farmingdale State College</td>
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<td>ALISA HENRIE</td>
<td>Committee Member</td>
<td>The University of Alabama in Huntsville</td>
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2023 ETLI PROGRAM

MONDAY, OCTOBER 9, 2023

REGISTRATION: BLUE ROOM PRE-FUNCTION  12:00 P.M. – 6:00 P.M.

WORKSHOP 1: NSF Update/FLATE Mentoring and Partnering—Best Practices for Two- and Four-Year Institution Collaborations  1:00 P.M. – 4:00 P.M.
BLUE ROOM

WORKSHOP 2: ABET (ETAC) Self-Study Tips and Tricks with Barbara Christe  1:00 P.M. – 4:00 P.M.
CAPITOL ROOM

NETWORKING BREAK  BLUE ROOM  2:30 P.M. – 3:00 P.M.

ETC BOARD MEETING Open to all Attendees  4:30 A.M. – 6:00 A.M.
BLUE ROOM
| **OPENING DINNER & SPEAKER:** BLUE ROOM |  |
| **SPEAKER:** |  |
| Dr. Kenneth Reid, Co-PI of Engineering for US All; Associate Dean and Director of R.B. Annis School of Engineering at University of Indianapolis | 6:00 P.M – 9:00 P.M. |

| **TUESDAY, OCTOBER 10, 2023** |  |
| **REGISTRATION:** BLUE ROOM PRE-FUNCTION | 8:00 A.M. – 4:00 P.M. |
| **BREAKFAST:** BLUE ROOM | 8:00 A.M.– 8:45 A.M. |
| **ETLI WELCOME:** BLUE ROOM |  |
| **SPEAKER:** | 8:45 A.M.– 9:00 A.M. |
| John Irwin, ETC Chair |
| Doug Tougaw, ASEE Presidentis |

| **KEYNOTE ADDRESS:** BLUE ROOM |  |
| **THE ROLE OF ENGINEERING TECHNOLOGY IN ADVANCING THE FUTURE OF OUR WORKFORCE** | 9:00 A.M.– 10:00 A.M. |
| **SPEAKER:** |  |
| Professor Marjaneh Issapour, Director of Renewable Energy and Sustainability Center at Farmingdale State College in New York |  |
FACULTY FOCUS: HIRING AND MENTORING NEW FACULTY; SUCCESSION PLANNING

BLUE ROOM

MODERATOR: Gerarda M. Shields, New York City College of Technology

10:15 A.M.–11:00 A.M.

TWO- TO FOUR-YEAR INSTITUTION ET TRANSFER:

BLUE ROOM

This panel focuses on successful ET pathway programs providing associate degrees or certificates at the two-year level to prepare students for STEM bachelor’s degrees at four-year institutions. Panelists will address issues such as a more affordable general education, exposure to modern tools used in industry, and career-focused courses. The panelists have expertise in federal and state programs that showcase best practices for recruitment, retention, and career guidance.

MODERATOR: BLUE ROOM

John Irwin, MMET Department Chair, Michigan Technological University

PANELISTS: BLUE ROOM

Christine Delahanty, NSF Program Director; Professor of Engineering and Physics at Bucks County Community College

Jerry Dobek, Astrophysicist and Instructor of Automotive, Astronomy, Mathematics, Physics, Chemistry, and Engineering at Northwestern Michigan College

Vukica Jovanović, ET Department Chair, Batten Endowed Fellow, and Full Professor at Old Dominion University

11:00 A.M.–11:45 A.M.
### LUNCH & ABET UPDATE FROM ETAC CHAIR: BLUE ROOM

**Speaker:**
Dr. Raju Dandu, Kansas State Universitys  
**Time:** 12:00 P.M.–2:00 P.M.

### PUBLIC RELATIONS—HOW TO CREATE AN ELEVATOR PITCH: BLUE ROOM

**Time:** 2:00 P.M.–2:45 P.M.

Promoting Program; Best Way to Disseminate Information; Improve Communication Between Marketing and Tech Programs; Marketing for DEI-B

### BUILDING THE PRE-SKILLED STUDENT: FROM SCHOOL TO INDUSTRY: BLUE ROOM

Your input is invaluable! The 2019 Skills Gap Survey needs your fresh perspective to stay current. Participate in this interactive session, offering essential feedback on the educational pipeline. Your insights will shape education’s future and maintain the survey’s relevance. Don’t miss this opportunity to contribute to a brighter future, where education aligns seamlessly with industry demands. Join us at the Survey Development Session and be a catalyst for change in education and engineering. Together, we’ll bridge the gap between classroom and career, shaping tomorrow’s students.

**Speaker:**
Shannon O’Donnell, Siemens Digital Industries Software  
**Time:** 3:00 P.M.–3:45 P.M.

### PREPARATION OF INCOMING STUDENTS: Panel of Two- and Four-Year Student Success Professionals and Faculty

**Speakers:**
Lisa Lampe, University of Virginia  
Michael Davis, Northern Virginia Community College  
Lara Sharp, Springfield Technical Community College  
**Time:** 4:00 P.M.–4:45 PM

### ASEE 130TH ANNIVERSARY GALA: REGENCY BALLROOM

Open to all ETLI Attendees!  
**Time:** 7:00 P.M.–12:00 A.M.
SPEAKERS

**Raju Dandu**
Kansas State University

Dr. Raju Dandu is a Professor of Mechanical Engineering Technology and the Director of Kansas State University Bulk Solids Innovation Center. He received his PhD in mechanical engineering from North Dakota State University and Diploma Engineer in thermal and nuclear power engineering from Slovak Technical University–Czechoslovakia. Dr. Dandu serves as Chair of the Engineering Technology Accreditation Commission, served on ABET Governance as a member of the Board of Delegates, is a member of the American Society of Mechanical Engineers Committee on Engineering Education, and is on the Board of Directors of the American Society for Engineering Education and Salina Area United Way. He served as the Graduate Program Director at Kansas State University’s Salina campus. His research interests are applied research in providing solutions to industry for storage, handling, and pneumatic conveying of dry bulk solids, systems, and product design. Dr. Dandu is fluent in spoken and written English, Slovak, Czech, and Telugu, and communicates in Russian, Spanish, Arabic, and Hindi.

**Michael Davis**
Northern Virginia Community College

Michael (Mike) Davis has served in community colleges for the past 20 years. For 15 years he moved through roles as a faculty member, department chair, and administrator, including Associate Vice Chancellor for STEM and interim Vice President for Academic Affairs at the City Colleges of Chicago. In 2016, Davis became the Academic Chair for Natural Science at St. Petersburg College in Tarpon Springs, Florida. From there, he joined the National Science Foundation (NSF) as a rotating program officer, starting in fall 2020. Davis served in the Division of Undergraduate Education in NSF’s Directorate for STEM Education and was Co-Lead Program Officer on the Hispanic Serving Institutions Program. He was also one of the authors of Improving Undergraduate STEM Education: Innovations in Two-Year Colleges (IUSE:ITYC). His work on the Advanced Technological Education (ATE) Program pairs community college assets with regional business needs to grow the skilled technical workforce. Currently, Davis is Dean for Math, Science, Technology, and Business at the Loudoun Campus of Northern Virginia Community College, where he works to assure academic integrity across an array of programs.

**Christine Delahanty**
Bucks County Community College–Newtown, Pennsylvania

Dr. Christine Delahanty is an NSF Program Director in the Directorate of STEM Education/Division of Undergraduate Education (EDU/DUE) for the following programs: ATE, IUSE, IUSE-ITYC, IUSE/PDF:RED, S-STEM, and IDEAS Lab (PEL). She holds an EdD in educational leadership and management from Drexel University, with a focus on creativity and innovation in STEM education; an MS degree in electrical engineering from the University of Pennsylvania; and a BS degree in physics from Villanova University. Dr. Delahanty is also a Professor of Engineering and Physics at Bucks County Community College and was the Area Coordinator of Science and Engineering there. Prior to her teaching career in higher education, she was a communication systems engineer at General Electric in military and commercial satellite operations for over nine years. She was a 2021–2022 NSF ATE Mentor Fellow.

**Jerry Dobek**
Northwestern Michigan College

Dr. Jerry Dobek is a professional astrophysicist and faculty instructor at Northwestern Michigan College (NMC). He is the current Astronomy Department Head and Director of the Joseph H. Rogers Observatory. Dr. Dobek taught astronomy and mathematics for NMC as an adjunct from 1987 until 2002, when he became a full-time faculty instructor. His interests in astronomy and space science began in the early 1960s. He holds memberships with RAS, AAS, AAAS, ASP, AAVSO, RASC, IDA, GTAS, IES, and SAE, and is a lifetime member of Phi Theta Kappa. His research interests are in variable stars and dark material, which he conducts from his own observatory north of Traverse City, Michigan. Dr. Dobek is also the site coordinator and director for Project ASTRO and Project Family ASTRO for the Michigan and Upper Wisconsin sites and serves as the regional Solar System Ambassador for NASA / JPL. He has taught automotive courses, astronomy, mathematics, physics, chemistry, and engineering.
Professor Marjaneh Issapour is an electrical engineer and educator at Farmingdale State College, as well as the former Associate Dean of innovation and economic development in sustainable energy. She is the creator of the state’s first Wind Turbine Technician Certificate program and college micro-credential for engineers, and created Farmingdale State College’s first Sustainable Energy Certificate program. Professor Issapour has driven greater clean energy literacy to the Long Island region. In 2021, she created a collaborative program with GE, leading to direct employment for attendees. In addition, she created an introductory wind literacy course, connecting 60 people from disadvantaged communities to career paths within offshore and onshore wind. Professor Issapour chairs the Drive Electric Long Island Coalition, is on the Board of the United States Green Building Council of Long Island, serves on NYSERDA’s Offshore Wind Jobs and Supply Chain Technical Working Group, and is the vice chair of IEEE-PES on Long Island. Nationally, she serves on the American Clean Power Micro-Credentials and Standards Committee. She is respected by the clean energy professionals she works with, and has made extra efforts to connect with, encourage, and mentor younger women in the field.

Lisa Lampe
University of Virginia

Dr. Lisa Lampe supervises the Undergraduate Programs Office and provides comprehensive student support, including academic coaching, advising, advocacy, and major exploration for engineering undergraduates. Dr. Lampe excels at identifying potential barriers and students’ strengths for overcoming them.

Lara Sharp
Springfield Technical Community College

Lara Sharp (she/her/hers) has a BS in chemical engineering from SUNY Buffalo, an MBA from UMASS Amherst, and an MS in industrial engineering from the University of South Florida. She is currently the Dean of Science, Technology, Engineering, and Math at Springfield Technical Community College. Sharp has worked as a process engineer, an education sales expert, and a high school chemistry and engineering teacher. Her higher education experience started in 2013 with Polk State College, working on a National Science Foundation grant about open entry, early exit competency-based engineering technology education and a Department of Labor grant for machining education. In 2015, she took on the role of Program Director of Engineering, Manufacturing, and Building Arts at St. Petersburg College. She is deeply committed to the mission of the community college and the students it serves. Sharp is active in American Society for Engineering Education and serves on its Engineering Technology Council.

Kenneth Reid
R.B. Annis School of Engineering at University of Indianapolis

Dr. Kenneth Reid is the Associate Dean and Director of Engineering at the R.B. Annis School of Engineering at the University of Indianapolis. He was awarded an IEEE-USA Professional Achievement Award (2013) for designing the first BS degree in engineering education. He is Co-PI on the Engineering for Us All (e4usa) project to demystify and democratize engineering, including the development of a high school engineering curriculum “for all.” Dr. Reid is active in engineering within K–12, serving on the Technology Student Association Board of Directors. He has written multiple texts in engineering, mathematics, and digital electronics. He and his co-authors were awarded the Wickenden Award (Journal of Engineering Education, 2014) and Best Paper Award in the Educational Research and Methods Division (ASEE, 2014). Dr. Reid earned a PhD in engineering education from Purdue University, is a senior member of IEEE, serves on the Board of Governors of the IEEE Education Society, and is a member of Tau Beta Pi.
Dr. Vukica Jovanović
Old Dominion University

Dr. Vukica Jovanović is Chair of the Engineering Technology Department, a Batten Endowed Fellow, and a full professor at Old Dominion University. She holds a PhD from Purdue University in mechanical engineering technology, focused on digital manufacturing, and additional degrees in industrial engineering, focused on production systems design, mechatronics, robotics, and automation. As a visiting researcher at Commonwealth Center for Advanced Manufacturing, she worked on projects about digital thread and manufacturing systems’ cybersecurity. Dr. Jovanović has published extensively on topics related to engineering pathways, broadening participation of underrepresented students in STEM, digital thread, digital manufacturing, mechatronics, assembly systems, and industrial robotics. She has served as Principal Investigator and Co-Principal Investigator on numerous federally funded grants, many of which have resulted in programming designed to serve underrepresented students in Norfolk Public Schools. She has funded research on engineering technology pathways from the U.S. Department of Education, National Science Foundation, Office of Naval Research, Virginia Space Grant Consortium, Luminary Labs, and Hampton Roads Workforce Development Board.