

# Engineering Technology Leaders Institute (ETLI) 2019

**“Engineering Technology Leaders: Taking the Next Steps”**  
**FINAL DRAFT - Sept 6, 2019**

**October 10 & 11, 2019**

The Alexandrian  
**480 King Street**  
**Alexandria, VA 22314**

<b>THURSDAY, OCTOBER 10, 2019</b>	
<b>REGISTRATION</b> <u>Old Town Foyer</u>	<b>7:30 a.m. - 5:00 p.m.</b>
<b>BREAKFAST</b> <u>Old Town Central East</u>	<b>7:45 a.m. - 8:15 a.m.</b>
<b>Welcome</b> <u>Old Town Central East</u>  <i>Hugh Jack, Co-Chair ETLI, Director, School of Engineering and Technology, Western Carolina University</i>	<b>8:15 a.m. - 8:30 a.m.</b>
<b>Session 1</b> <u>Old Town Central East</u>  <b>Legislative Updates and Discussions</b> This session features ASEE’s federal relations partners, Lewis-Burke Associates LLC, a Washington D.C.-based government relations firm with over 25 years of experience advocating for non-profit universities and research organizations. Two members of the firm will provide an overview of the current state of play in Washington, point out key federal issues that apply to engineering technology and workforce development, and offer tips for effective ET advocacy.  <b>Presenters:</b> <b>Miriam Quintal</b> , <i>Lewis-Burke Associates LLC</i> <b>Bill Ruch</b> , <i>Lewis-Burke Associates LLC</i>	<b>8:30 a.m. - 9:30 a.m.</b>

<p><b>Moderator:</b>  <b>Hugh Jack</b>, <i>ETLI Co-Chair, Director, School of Engineering and Technology, Western Carolina University</i></p> <p><b>Session 2</b></p> <p><b>Visits to the Hill and Agencies to discuss ET Issues (<u>Pre-registration Required</u>)</b>  Attendees will make scheduled visits to congressional offices to meet with staff or members and also meet with federal agency officials to discuss pressing issues related to engineering technology education and workforce development. (Destinations may include the National Science Foundation and the Department of Labor.)</p>	<p><b>10:30 a.m. - 5:00 p.m.</b></p>
<p><b>OPENING DINNER</b>  <u><i>Old Town West</i></u></p> <p><b>Speaker:</b>  <b>Scott Dunning</b>, <i>ETC Chair, Professor and Director, School of Engineering Technology, University of Maine</i>  <b>Norman Fortenberry</b>, <i>ASEE Executive Director</i></p> <p><b>Moderator:</b>  <b>Ken Burbank</b>, <i>Professor and Head, School of Engineering Technology, Purdue University Polytechnic Institute</i></p>	<p><b>6:00 p.m. - 8:00 p.m.</b></p>

<p><b>FRIDAY, OCTOBER 11, 2019</b></p>	
<p><b>Registration Open</b>  <u><i>Old Town Foyer</i></u></p>	<p><b>7:30 a.m. - 5:00 p.m.</b></p>
<p><b>BREAKFAST</b>  <u><i>Old Town Central East</i></u></p>	<p><b>8:00 a.m. - 8:30 a.m.</b></p>
<p><b>ETLI Opening Plenary</b>  <u><i>Old Town Central East</i></u></p> <p><b>Welcome</b>  <b>Hugh Jack</b>, <i>ETLI Co-Chair, Director, School of Engineering and Technology, Western Carolina University</i></p> <p><b>Introduction of Speaker</b>  <b>Scott Dunning</b>, <i>ETC Chair, Professor and Director, School of</i></p>	<p><b>8:30 a.m. - 9:30 a.m.</b></p>

*Engineering Technology, University of Maine\_*

**Welcome from ASEE's President**

**Stephanie Adams**, *Dean of Engineering, the University of Texas at Dallas*

**Keynote Speaker:**

**Moderators:**

**Scott Dunning**, *ETC Chair, Professor and Director School of Engineering Technology, University of Maine*

**Richmond Nettey**, *President, the Association of Technology, Management, and Applied Engineering (ATMAE) Safety Division and Professor of Aeronautics, Kent State University*

**REFRESHMENT BREAK- Old Town Foyer**

**9:30 a.m. -  
10:00 a.m.**

**Session 1**

**Old Town Central East**

**10:00 a.m. -  
11:30 a.m.**

**Increasing the Connections between ET Programs and Industry**

Engineering Technology graduates are educated to be the practical engineers in industry. Therefore, knowledge of current industry practices is critical for educators. Likewise, support from industry helps make educators more effective. This session will host a panel that presents best practices for increasing two-way communication and collaboration from both academic and industry perspectives.

**Speakers:**

**Frederick Berry**, Co-Director of the Center for Technology Development at the Purdue Polytechnic Institute. The center, with 12 ET faculty members, focuses on working on projects for industry.

**Jerad Pelotte**, Manager of Electrical Engineering at TRC Solutions. TRC Companies, Inc. is a professional consulting firm with over 5,000 employees and 140 offices around the globe. The electrical engineering group in Maine works on projects related to energy production and delivery.

**Moderators:**

**Scott Dunning**, *ETC Chair, Professor and Director School of Engineering Technology, University of Maine*

**Aixi Zhou**, *Professor and Chair, North Carolina A&T State University*

<p><b>LUNCH SESSION</b> <b><u>Old Town West</u></b></p> <p><b>Discussion on a National Marketing Plan for ET Programs</b> In this session, ET leaders will discuss a national marketing plan for ET programs. The Marketing Committee will lead a discussion on its accomplishments and the status of the proposal for NSF funding.</p> <p><b>Speakers:</b> <b>Alok Verma</b>, <i>Professor of Engineering Technology, Old Dominion University</i> <b>Adam Shapiro</b>, <i>CEO/President ASPR LLC</i></p> <p><b>Moderators:</b> <b>John Irwin</b>, <i>Professor and Associate Chair of Manufacturing and Mechanical Engineering Technology, Michigan Technological University</i> <b>Hugh Jack</b>, <i>ETLI Co-Chair, Director, School of Engineering and Technology, Western Carolina University</i></p>	<p><b>11:30 a.m. - 1:00 p.m.</b></p>
<p><b>Session 2</b> <b><u>Old Town Central East</u></b></p> <p><b>What is the Future of ET? Engineering Technology 2029</b> This session will examine issues related to the future of Engineering Technology (ET) programs in the U.S. at both 4- and 2-year institutions. A number of changes have taken place in the last 50 years in ET education, such as the reorganization or elimination of ET programs. We will look forward and examine the strengths, weaknesses, opportunities for, and threats to ET in the future. What can program leaders do to ensure ET will thrive? Panelists represent 2- and 4-year institutions in a variety of capacities: a president, deans, heads of departments, and other experts. This panel also reflects a number of different changes recently in Engineering Technology.</p> <p><b>Speakers:</b> <b>Dr. Ken Burbank</b>, <i>Professor and Head of Engineering Technology at Purdue University Polytechnic Institute. Purdue Polytechnic is the largest 4-year technology school in the country with over 50 different bachelor's and master's degree programs. Dr. Burbank will discuss what the Polytechnic is doing to attract students.</i></p> <p><b>Dr. Ron D. Dempsey</b>, <i>President, Oakland City University in Indiana, a small private university that offers undergraduate and graduate</i></p>	<p><b>1:30 p.m. - 3:30 p.m.</b></p>

degrees. Dr. Dempsey's August, 2018 Ph.D. dissertation is titled, "The Role of Engineering Technology as a Pathway for African Americans into the Field of Engineering." Dr. Dempsey also looked at the future of ET in his dissertation and will discuss some of his findings.

**Dr. Adrienne Minerick**, Professor and Dean of the College of Computing, and former Dean of the School of Technology, Michigan Technological University. Michigan Tech decided in the last two years to eliminate the School of Technology and place its ET programs in the Colleges of Engineering or Computing. For instance, mechanical engineering technology is now located in a new manufacturing and mechanical engineering technology department in the College of Engineering. Dr. Minerick will discuss the changes at Michigan Tech.

**Dr. Anthony M. Ponder**, Dean, Science, Mathematics and Engineering, Sinclair Community College. Dr. Ponder will discuss ET 2-plus-2 programs and how Sinclair has been using internships and apprenticeships as a way to meet industry needs while also serving as a recruitment tool for ET programs.

Dr. Manian Ramkumar, Dean, College of Engineering and Technology, Rochester Institute of Technology. Dr. Ramkumar will discuss his four-year college's expansion of ET programs and other developments.

**Dr. Edem G. Tetteh**, Dean, Division of Science, Technology, Engineering, and Mathematics (STEM), Rowan College at Burlington County, N.J. Rowan University recently introduced new ET programs, such as the 3-plus-1 mechanical engineering technology program at one of RCBC's campuses. Dr. Tetteh will discuss how engineering technology programs started at Rowan.

**Moderators:**

**Kim Gaines**, Faculty, Electrical and Computer Engineering Technology, Augusta Technical College.

**John Irwin**, Professor, Michigan Technical University

**Pat Fox**, Past Chair of ETC and Clinical Assistant Professor, Purdue School of Engineering and Technology, *Indiana University-Purdue University Indianapolis (IUPUI)*

**REFRESHMENT BREAK - Old Town Foyer**

**3:30 p.m. -  
4:00 p.m.**

<p><b>Session 3</b> <b><u>Old Town Central East</u></b></p> <p><b>How to Make Recruiting from Different Pathways Work for ET Programs</b> Engineering Technology departments recruit students from a number of different pathways, including engineering programs, underrepresented groups, women, non-technical groups, veterans and the military, and from two-year schools through articulations agreements. This session will look at how ET programs can utilize best practices in recruiting from various pathways.</p> <p><b>Speakers:</b> <b>Clay Gloster</b>, Interim Vice Provost for Research, Graduate Programs and Extended Learning at NCA&amp;T and Chair of the Engineering Technology Division (ETD) of ASEE. His current research focuses on broadening participation of minorities in science, engineering, and engineering technology. He leads the Verizon Innovative Learning project at NCA&amp;T which has impacted more than 1,100 minority middle school males.</p> <p><b>Massoud Moussavi</b>, Professor and Department chair, Electromechanical Engineering Technology Department, CalPoly-Pomona. He teaches a variety of electronics courses, specifically Data/Digital communication, Networking, and Photonics/Optical communication. He is a member of an American Council on Education team evaluating military courses.</p> <p><b>Session Moderators:</b> <b>Carol Lamb</b>, <i>ETC Chair-Elect, ETLI Co-chair, Youngstown State University</i> <b>Glenn Wrate</b>, <i>Professor of Engineering Technology, Northern Michigan University</i></p>	<p>4:00 p.m. - 5:00 p.m.</p>
<p><b>BREAK</b></p>	
<p><b>BANQUET DINNER</b> <b><u>Old Town West</u></b></p> <p><b>Updates on the ET-PE Licensing Initiative. Discussion of the visit to Capitol Hill and agencies and take-aways from the ETLI Meeting. Determining next steps on the path to licensure, including legislative and policy related actions.</b></p> <p><b>Speakers:</b> <b>Martin Gordon</b>, <i>Professor, Department of Manufacturing and</i></p>	<p>5:45 p.m. - 7:45 p.m.</p>

*Mechanical Engineering Technology, Rochester Institute of Technology*  
**Rob Weissbach**, Chair and Associate Professor, Indiana University  
*Purdue University*

**Moderators:**  
**Rob Weissbach**, Chair and Associate Professor, Department of  
*Engineering Technology, IUPUI.*

## **SATURDAY, OCTOBER 12, 2019**

**ETC EXECUTIVE BOARD and ETLI 2020 PLANNING  
COMMITTEE MEETING (*Breakfast Meeting*)**

**7:30 am - 10:00  
am**

**Rosemont**

For all ETC Executive Board Members, Engineering Technology  
National Forum members, ETLI Chair, ETLI Past Chair, ETLI planning  
committee, and anyone else who would like to attend, please join us.

*ETLI webpage - <https://www.asee.org/conferences-and-events/conferences/etli/2019>*

*If you have questions about ETLI 2019, please contact Hugh Jack at  
[hughjack@wcu.edu](mailto:hughjack@wcu.edu)*