The Forty Second Industrial Energy Technology Conference

Prelim Program

Hosted By:

ENERGY SYSTEMS LABORATORY
TEXAS A&M ENGINEERING EXPERIMENT STATION

State Energy Conservation Office

www.ietc.tamu.edu
conferences@esl.tamu.edu
979-862-8480
## TABLE OF CONTENTS

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Welcome</td>
<td>2</td>
</tr>
<tr>
<td>Information/Registration</td>
<td>3</td>
</tr>
<tr>
<td>Conference Schedule</td>
<td>4</td>
</tr>
<tr>
<td>Conference Sessions</td>
<td>5</td>
</tr>
<tr>
<td>IETC Advisory Board</td>
<td>9</td>
</tr>
<tr>
<td>IETC Hosts</td>
<td>9</td>
</tr>
<tr>
<td>2020 IETC Sponsors</td>
<td>9</td>
</tr>
</tbody>
</table>
Industry is the largest and most diverse energy-consuming sector in the United States, utilizing one-third of the total energy used. Many energy-intensive industries such as petrochemicals, aluminum, steel, refining and forest products are limited in their mix of energy sources and raw materials that can be used in their processes. Many opportunities exist, or must be found, to reduce energy usage and feedstock issues in order to sustain this wide range of industrial manufacturing operations. Come to the IETC and be a part of the solution as these problems are confronted and solved by industry leaders.

The Industrial Energy Technology Conference (IETC) is a national conference 42 years in the running that provides answers to energy and related environmental concerns affecting industrial facilities and processes.

The IETC staff and your hosts are committed to providing you with timely, practical and useful energy-related information. We want to help you expand your knowledge and increase your value as an employee or independent consultant. We want you to profit from the technical expertise and experience of our speakers and gain meaningful insights by discussing your interests and concerns with other professionals. That’s what the IETC is all about. It is very unique technically and has been described by hundreds of previous attendees as “the one industrial energy technology conference you cannot afford to miss!”

James A. Eggebrecht, PE, Executive Director
Industrial Energy Technology Conference
How to contact us:

General conference information, presentations, speakers
James A. Eggebrecht
Executive Director
Phone: (979) 845-1508
Email: jegge@tamu.edu

Other information, including registration
Kimberly Greer
Conference Manager
Phone: (979) 862-8480
Email: kimberlygreer@tamu.edu

Get updated IETC information at http://ietc.tamu.edu/

Conference Registration
You can register on-line at http://ietc.tamu.edu
<table>
<thead>
<tr>
<th>Date</th>
<th>Session Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Tuesday, December 8th</strong></td>
<td></td>
</tr>
<tr>
<td>Technical Session # 1</td>
<td>9:10 am - 11:45 am</td>
</tr>
<tr>
<td>Technical Session # 2</td>
<td>1:45 pm - 5:00 pm</td>
</tr>
<tr>
<td><strong>Wednesday, December 9th</strong></td>
<td></td>
</tr>
<tr>
<td>Technical Session # 3</td>
<td>9:10 am - 11:45 am</td>
</tr>
<tr>
<td>Technical Sessions # 4 &amp; 5</td>
<td>1:45 pm - 5:00 pm</td>
</tr>
<tr>
<td><strong>Thursday, December 10th</strong></td>
<td></td>
</tr>
<tr>
<td>Technical Sessions # 6 &amp; 7</td>
<td>9:10 am - 11:45 am</td>
</tr>
<tr>
<td>Technical Session # 8</td>
<td>1:45 pm - 5:00 pm</td>
</tr>
<tr>
<td><strong>Friday, December 11th</strong></td>
<td></td>
</tr>
<tr>
<td>Technical Session # 9</td>
<td>8:50 am - 12:00 pm</td>
</tr>
<tr>
<td>Technical Session # 10</td>
<td>1:45 pm - 3:25 pm</td>
</tr>
</tbody>
</table>
Tuesday Morning, December 8

9:10 am - 11:45 am  Session 1

Session 1 – Equipment Improvements

“Compare 2 Fixed Orifice Venturi Products to a Variable Orifice Free Float Steam Trap,” James R. Risko, TLV Corporation.

“Improving Efficiency of Crude Heaters” Bijal V. Gangar, Harsh Ghuge, and Ashutosh Garg, Furnace Improvement Services Inc.


“Cooling Water System Optimization is a Significant Contributor for Environmental Improvement,” Mustafa Kamal Hashim, Saudi Aramco.

Tuesday Afternoon, December 8

1:45 pm - 5:00 pm  Session 2

Session 2 - Improving Facility Resiliency and Reducing Costs


Wednesday Morning, December 9

9:10 am - 11:45 am Session 3

Session 3 – Compressed Air System Engineering Best Practices


Wednesday Afternoon, December 9

1:45 pm - 5:00 pm  Sessions  4 & 5

Session 4 - American Chemistry Council Award Winners 1

“Arkema Calvert City Energy Program,” Abdel Ramadane and Dwight Stoffel, Arkema Inc.


Session 5 - Generating Value While Reducing Energy and GHG (Panel Discussion)

“Quantifying and Incentivizing the Indirect Effects of This Industrial Process Innovations,” Eric Masenet, University of California- Santa Barbara.

“Making Cents of Carbon,” Heidi Holmes, Dow Chemical.

Thursday Morning, December 10

9:10 am - 11:45 am       Sessions 6 & 7

Session 6 – American Chemistry Council Award Winners 2


“Oxidizer Natural Gas Reduction, Morgantown NC Facility,” Frank Panna, Hexion Inc.

Session 7 - Tools for Efficiency Improvements


“Maximizing Meter and Invoice Data to Optimize Facilities - Alerts, Benchmarking, KPIs, M&V and More,” Andy Anderson, EnergyWatch LLC.

“MEASUR Calculation Tools,” Kristina Armstrong, Oak Ridge National Laboratory.

Thursday Afternoon, December 10

1:45 pm - 5:00 pm       Session 8

Session 8 - Strategic Energy Management


“Undiscovered Primary Energy Fuel, from a Supply Chain Perspective” Muhammad Elias, Saudi Aramco.

“TVA’s Strategic Energy Management Program,” Tim Campbell, Tennessee Valley Authority.
**Friday Morning, December 11**

8:50 am - 12:00 pm  
**Session 9**

**Session 9 – Water and Energy: The Deep Connection**

“The Energy-Water Connection, an Overview,”  
**Mike Stowe, Advanced Energy.**

“Applied Water and Energy Integration,”  
**Susanna Sutherland, Sutherland & Associates, LLC.**

“Rural Water Usage and Electrical Power Options,”  
**Dale Friesen, Single Phase Power Solutions.**

**Friday Afternoon, December 11**

1:45 pm - 3:25 pm  
**Session 10**

**Session 10 - Program Efforts Towards Energy Efficient Operations**

“U. S. Department of Energy (DOE) Advanced Manufacturing Programs and Their Impacts,”  
**Lindsay Steele, Pacific Northwest National Laboratory.**

“Update on Better Plants Partners are Performing in the Better Buildings/Plants Waste Reduction Pilot,”  
**Bruce Lung, U.S. Department of Energy, Ethan Rogers, ORAU, and Sachin Nimbalkar, Oak Ridge National Laboratory.**

“Industrial Energy Efficiency Can Help Gulf Coast Communities Meet Clean Air Rules,”  
**Andrew Whitlock, American Council for an Energy Efficient Economy.**
Advisory Board
Walter Brockway, Brockway Consulting
Neil Davies, Spirax Sarco, Inc.
Peter Garforth, Garforth International llc
William Hicks, ExxonMobil Research and Engineering
Dave Lauterbach, DuPont
R. Bruce Lung, U. S. Department of Energy
Vern Martin, Flowcare Engineering Inc.
Sharon Nolen, Eastman Chemical Company
Edward O’Brien, Louisiana Department of Natural Resources
Elizabeth Pavone, Chemical Engineering Progress
Brett Rasmussen, Nissan North America
Bryan Rasmussen, Texas A&M University
Ed Rightor, American Council for an Energy Efficient Economy
James Robinson, DES Global, LLC
Scott Rouse, Energy @ Work
Eric Soucy, Natural Resources Canada
Mike Stowe, Advanced Energy
Thomas R. Theising, Sustainable Energy Solutions, LLC
Eddy Trevino, Texas State Energy Conservation Office
Lloyd Webb, Olin Corporation
Thomas Wenning, Oak Ridge National Laboratory
Jay Zoellner, Edison Energy

Hosts
Louisiana Department of Natural Resources
Energy Systems Laboratory, Texas A&M University

Sponsors
American Chemistry Council
Louisiana Department of Natural Resources
MP2 Energy
Spirax Sarco, Inc.
TLV Corporation

Get updated IETC information at:
http://ietc.tamu.edu/