The Thirty-Ninth Industrial Energy Technology Conference

Prelim Program

Hosted By:

ENERGY SYSTEMS LABORATORY
TEXAS A&M ENGINEERING EXPERIMENT STATION

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>Conference Schedule</td>
<td>3</td>
</tr>
<tr>
<td>Information</td>
<td>4</td>
</tr>
<tr>
<td>Program at-a-Glance</td>
<td>5</td>
</tr>
<tr>
<td>Energy Managers Workshop</td>
<td>6</td>
</tr>
<tr>
<td>Conference Sessions</td>
<td>7</td>
</tr>
<tr>
<td>Conference Staff</td>
<td>11</td>
</tr>
<tr>
<td>IETC Advisory Board</td>
<td>11</td>
</tr>
<tr>
<td>IETC Hosts</td>
<td>11</td>
</tr>
<tr>
<td>2017 IETC Sponsors</td>
<td>11</td>
</tr>
<tr>
<td>Hotel and Registration Information</td>
<td>12</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 39 years running that provides answers to energy and related environmental concerns affecting industrial facilities and processes. The conference kicks off with the 25th Energy Managers Workshop, and continues with featured speakers during two days of technical presentations.

Coffee and meal breaks on both conference days and an evening reception on Wednesday, June 21 provide additional opportunities for informal interaction. One-on-one discussions with speakers, panelists, and other attendees frequently lead to sharing of experiences where you can find out what works, what does not work, what to watch out for, and how to improve your company’s bottom line.

The IETC Exhibit space is in the 10th floor of the hotel, next to the registration and coffee break area, and the luncheon ballrooms, and will be open all hours of the conference and especially during the coffee breaks! Come by and visit and see what our exhibitors have to show you.

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
Tuesday, June 20th
Energy Manager Workshop 8:00 am - 5:00 pm

Wednesday, June 21st
Opening & Plenary 8:00 am
Technical Sessions # 1-4 9:15 am - 11:55 am
Award Luncheon Noon - 1:30 pm
Technical Sessions # 5-7 1:45 pm - 5:00 pm
Hosted Reception 5:30 pm - 7:30 pm

Thursday, June 22nd
Technical Sessions # 8-11 8:30 am - 12:00 pm
Luncheon Noon - 1:30 pm
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/
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:00 am – 5:00 pm</td>
<td>Registration and Information</td>
</tr>
<tr>
<td>8:00 am – 5:00 pm</td>
<td>Energy Managers Workshop</td>
</tr>
<tr>
<td>12:00 pm – 1:00 pm</td>
<td>Energy Managers Workshop Lunch</td>
</tr>
</tbody>
</table>

**Wednesday, June 21 – Day 1 of Conference**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:00 am – 5:00 pm</td>
<td>Registration and Information</td>
</tr>
<tr>
<td>7:15 am – 7:50 am</td>
<td>Conference Authors/Presenters Breakfast</td>
</tr>
<tr>
<td>8:00 am – 8:25 am</td>
<td>Opening Welcome</td>
</tr>
<tr>
<td>8:25 am – 9:05 am</td>
<td>American Chemistry Council Recognition of Energy Awards</td>
</tr>
<tr>
<td>8:40 am – 9:05 am</td>
<td>Plenary Address - TBA</td>
</tr>
</tbody>
</table>

**Technical Sessions 1 - 4**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:15 am – 11:50 am</td>
<td>1 – American Chemistry Council Award Winners 1</td>
</tr>
<tr>
<td></td>
<td>2 – Tools for Energy Conservation</td>
</tr>
<tr>
<td></td>
<td>3 – Energy Storage Options</td>
</tr>
<tr>
<td></td>
<td>4 – Water and Energy Issues</td>
</tr>
</tbody>
</table>

10:20 am – 10:50 am | Break Time Sponsored by Soteica Visual Mesa L.L.C.
12:00 pm – 1:30 pm | IETC Luncheon & Keynote Address

**Technical Sessions 5 - 7**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:45 pm – 5:00 pm</td>
<td>5 – Compressed Air</td>
</tr>
<tr>
<td></td>
<td>6 – Combined Heat &amp; Power</td>
</tr>
<tr>
<td></td>
<td>7 – Improvements in Plant Utility Systems</td>
</tr>
</tbody>
</table>

2:50 pm – 3:20 pm | Break Time Sponsored by Soteica Visual Mesa L.L.C.
5:30 pm – 7:30 pm | Reception

**Thursday, June 22 – Day 2 of Conference**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:30 am – 2:00 pm</td>
<td>Registration and Information</td>
</tr>
</tbody>
</table>

**Technical Sessions 8 - 11**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:30 am – 12:00 pm</td>
<td>8 – American Chemistry Council Award Winners 2</td>
</tr>
<tr>
<td></td>
<td>9 – Steam Plants &amp; Equipment</td>
</tr>
<tr>
<td></td>
<td>10 – Energy Impact Analysis</td>
</tr>
<tr>
<td></td>
<td>11 – Modeling and Software</td>
</tr>
</tbody>
</table>

9:35 am – 10:10 am | Break Time Sponsored by Soteica Visual Mesa L.L.C.
12:00 pm – 1:30 pm | IETC Awards Luncheon
25th Energy Managers Workshop Schedule
Energy Management: Strategies and Successful Applications

Tuesday, June 20
8:00 am - 5:00 pm, lunch included

Learn the strategies that all energy managers must know about NOW, and learn how successful managers have applied what they have learned. Managers, who are doing just that, will be the instructors.

Confirmed topics and speakers are:

- Energy Reliability in Industry, Thomas R. Theising, Sustainable Energy Solutions, LLC.
- Resource Productivity – It’s Only Natural, Sharon Nolen, Eastman Chemical Company.
- Presenting the Value of Energy Management to Operations and the Facility Financial Analyst, James Robinson, DES Global LLC.
- TBA

More up-to-date information on the remaining speakers is found at http://ietc.tamu.edu
**Wednesday Morning, June 21**

7:00 am - 5:00 pm  Registration
7:15 am - 7:50 am  Conference Authors/Presenters Breakfast
8:00 am - 8:25 am  Opening Welcome by Conference Hosts
8:25 am - 8:40 am  American Chemistry Council Recognition of Energy Awards
8:40 am - 9:05 am  Plenary Address by TBA

10:20 am - 10:50 am  Break Time Sponsored by Soteica Visual Mesa L.L.C.

9:15 am - 11:50 am  Sessions 1 - 4

**Session 1 - American Chemistry Council Award Winners 1**

Four invited speakers from the American Chemistry Council Responsible Care Energy Award Winners for 2016.

**Session 2 - Tools for Energy Conservation**


**Session 3 - Energy Storage Options**


“ONCOR Battery Storage Project in Central Texas,” David Chiesa, S & C Electric

Session 4 - Water and Energy Issues

“Plant Water Profiler Tool for Industry,” Sachin Nimbalkar, Oak Ridge National Laboratory.

“Mitigation of Scaling and Fouling in Membrane Distillation Process for Industrial Water Treatment and Reuse,” Markus Lesemann, Young Chul Choi, Zachary Hendren, RTI International, and Hervé Buisson, Veolia Water Technologies North America.


12:00 pm - 1:30 pm Luncheon and Keynote Address

Wednesday Afternoon, June 21

1:45 pm - 5:00 pm Sessions 5 – 7
2:30 pm - 3:20 pm Break Time Sponsored by Soteica Visual Mesa L.L.C.

Session 5 - Compressed Air

“Ten Most Productive Compressed Air System Questions” Thomas Theising, Sustainable Energy Solutions LLC.


“Reducing Site Cost Through Ultrasonic Air Leak Surveys and Repairs,” James Nipper, Petro Chemical Energy.

“Understanding and Identifying the Value in Energy Reductions: Utilizing a Dewpoint Demand Controller with Dual-Tower Desiccant Dryers,” Henry Van Ormer, Air Power USA.


Session 6 - Combined Heat & Power


“Optimal Integration of Steam Turbines for Industrial CHP Applications,” Jimmy D. Kumana, Kumana and Associates.


Session 7 - Improvements in Plant Utility Systems


5:30 pm - 7:30 pm Reception

Thursday Morning, June 22

8:30 am - 12:00 pm    Sessions 8 - 11
9:35 am - 10:10 am    Break Time Sponsored by Soteica Visual Mesa L.L.C.

Session 8 - American Chemistry Council Award Winners 2

Five invited speakers from the American Chemistry Council Responsible Care Energy Award Winners for 2016.

Session 9 - Steam Plants & Equipment

“Steam Trap Management: Do Something, Anything, ...Please,” James R. Risko, TLV Corporation.


Session 10 - Energy Impact Analysis


“Demand Controlled Ventilation: Opportunities for Energy Reduction and the Pros and Cons of this Approach,” Vern Martin, FLOWCARE Engineering, Inc.

Session 11 - Modeling and Software


“DOE 50001 Navigator,” Thomas Wenning, Oak Ridge National Laboratory.

“TBA,” Soteica Visual Mesa L.L.C.


12:00 pm - 1:30 pm IETC Awards Luncheon
IETC Staff

James A. Eggebrecht, Executive Director
Kimberly Greer, Conference Manager

Advisory Board

Joe Almaguer,
Walter Brockway, Brockway Consulting
Neil Davies, Spirax Sarco, Inc.
R. Neal Elliott, American Council for an Energy Efficient Economy
Peter Garforth, Garforth International llc
Scott Harrison, TXU Energy
Dave Lauterbach, DuPont
R. Bruce Lung, U. S. Department of Energy
Michaela Martin, ICF International
Vern Martin, Flowcare Engineering Inc.
Cynthia Mascone, Chemical Engineering Progress
Paul Miller, Louisiana Department of Natural Resources
Sharon Nolen, Eastman Chemical Company
Bryan Rasmussen, Texas A&M University
James Robinson, DES Global, LLC
Scott Rouse, Energy @ Work
Steve Schultz, 3M Company
Eric Soucy, Natural Resources Canada
Thomas R. Theising, Sustainable Energy Solutions, LLC
Vince Torres, Texas Industries of the Future
Eddy Trevino, Texas State Energy Conservation Office
Kirtan K. Trivedi, ExxonMobil Chemical Company
Vestal Tutterow, Project Performance Corporation
Thomas Wenning, Oak Ridge National Laboratory
Jay Wrobel, US Department of Energy
Jay Zoellner, EnerNOC

Hosts

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

Sponsors

American Chemistry Council
Louisiana Department of Natural Resources
Soteica Visual Mesa LLC
Spirax Sarco, Inc.
Texas State Energy Conservation Office/Texas Industries of the Future
TLV Corporation
US Department of Energy, Advanced Manufacturing Office

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

IETC 2017 will be at the beautiful Loews New Orleans Hotel located three blocks from the historic French Quarter in New Orleans, Louisiana. The reduced IETC conference rate is $179/night single or double occupancy. The hotel deadline for this rate is May 24, 2017. The Loews New Orleans Hotel is located at 300 Poydras Street.

Make your hotel reservations through the IETC website: http://ietc.tamu.edu/


You may also contact the hotel by:
(504) 595-3300 voice
(866) 211-6411 reservations
300 Poydras Street
New Orleans, Louisiana 70130

Visit the New Orleans Convention and Visitors Bureau site http://www.neworleanscvb.com/ to learn more about New Orleans’ history, culture, tales of the city, and the various festivities taking place at the time of the conference.

**Traveling to the Hotel**

See the hotel website http://www.loewshotels.com/en/New-Orleans-Hotel/index/map for directions to the hotel at 300 Poydras Street, New Orleans.

**Airport Shuttle Information**

Website found at http://www.airportshuttleneworleans.com/

If purchasing your ticket(s) at the airport, proceed to the baggage claim area on the ground level. After you have retrieved your luggage, proceed to the Airport Shuttle Ticket Desk, located across from all baggage claim carousels. Tickets from the airport and back are $44 round trip, per person.

**Conference Registration**

You can register on-line at http://ietc.tamu.edu/