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On behalf of the hosts and sponsors of the Forty-first National Industrial Energy Technology Conference (IETC), welcome! Our program brings together nationally prominent experts from many areas of industrial energy management. This year’s two-day conference consists of fourteen technical sessions and panel discussions and over forty individual presentations. In addition, each day will be highlighted by outstanding corporate, industrial and government speakers.

The IETC staff and your hosts, Texas A&M University System’s Energy Systems Laboratory and the Louisiana Department of Natural Resources, along with our many co-sponsors are committed to providing all attendees with a wealth of information that will help them improve the performance of their companies--something to take home and use immediately!

This year’s 2019 Energy Managers’ Workshop builds on its past successes and will again provide a great opportunity for you to expand your energy management proficiency through an event associated with the conference. Seven top energy managers and industry leaders present an impressive and extensive workshop agenda entitled: “Energy Management: Strategies and Successful Applications.”

We are confident that you will profit from the experience and technical expertise of our presenters and panelists, and best of all, the interaction with so many energy professionals in one place.

James A. Eggebrecht, PE, Executive Director
Industrial Energy Technology Conference
Workshop
The Pre-Conference Energy Managers Workshop continues for its twenty-seventh year, exploring the topic of “Energy Management: Strategies and Successful Applications.”

Opening Plenary
The IETC opens with a Plenary Session on Wednesday morning, featuring the American Chemistry Council Energy Award Winners, and remarks by Tom Harris, Secretary of the Louisiana Department of Natural Resources.

Breakfasts
Wednesday morning includes a breakfast for the presenters and session chairs in the Louisiana Ballroom. Breakfast for attendees is in the Parish Hall Exhibit area on Wednesday and Thursday morning.

Sponsored Coffee Breaks
Wednesday’s & Thursday’s Breaks are sponsored by KBC Advanced Technologies.

Technical Sessions
The traditional technical sessions consist of 25-minute presentations followed by a 5-minute question and answer period after each presentation. There will be a 5-minute break between papers to permit movement of conferees between sessions.

Panel Discussions
Panel discussions provide an overview by a select group of authorities on the subject. The moderator will lead the discussion on the topic following the panelists presentations. This format allows more in-depth coverage and discussions, and provides more interaction with the audience.

Reception
The IETC reception is at 5:30 p.m. on Wednesday evening June 19.

Wednesday Keynote Speaker
Features Maria T. Vargas, U. S. Department of Energy.

Thursday IETC Energy Award Luncheon
The IETC Awards Luncheon features IETC Energy Awards presentations to Ryan Spies of Saint Gobain, and Owens Corning.
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/

Proceedings
The IETC Proceedings are available at the IETC website:
http://ietc.tamu.edu/program

Call for Papers
Abstracts are now being accepted for the Forty-Second Industrial Energy Technology Conference. Interested authors should submit one electronic abstract of not more than 400 words by October 1, 2019 to:

James A. Eggebrecht
IETC Executive Director
Energy Systems Laboratory

Phone: (979) 845-1508
Email: jegge@tamu.edu

Continuing Education & Professional Development Credits
The Industrial Energy Technology Conference and the workshops meet the criteria for continuing education and professional development hours required by many state professional engineering boards. Check with Kimberly or Jim at the registration desk for information and a CEU form.
Mr. Thomas Harris
Secretary of Louisiana Department of Natural Resources

Tom Harris is the Secretary of the Louisiana Department of Natural Resources and a member of the State Mineral and Energy Board, the Oilfield Site Restoration Commission and the Water Resources Commission. He earned his Bachelor of Science in Biochemistry from Louisiana State University and a Master of Science in Environmental Toxicology from the Tulane University School of Public Health. Tom was previously the Director of the Technology Assessment Division at DNR since 2014 and also worked at the Louisiana Department of Environmental Quality, for 19 years. At LDEQ he served as Administrator overseeing the remediation of contaminated sites from 2005 until early 2014.

Ms. Maria T. Vargas
Senior Program Adviser, U.S. Department of Energy

Maria T. Vargas serves as a Senior Program Advisor at the U.S. Department of Energy. Ms. Vargas is also the Director of DOE’s Better Buildings Initiative. Through Better Buildings, DOE works with leaders in the public and private sectors to make American buildings at least 20 percent more efficient in the next decade. Hundreds of chief executive officers, University presidents and state and local leaders are partners and are upgrading buildings across their portfolio and sharing innovative solutions and strategies as models for others to follow.

Prior to her work at DOE, Ms. Vargas was the Brand Manager for the ENERGY STAR program for almost 20 years while at the US Environmental Protection Agency. Vargas also served as the Director of the Green Lights Partnership. She has been involved in policy work on the issues of ozone depletion, global climate change, and related environmental and energy issues since 1985.

Ms. Vargas received a Bachelor’s degree from Swarthmore College (Swarthmore, PA) in Political Science and Economics and a Master’s degree from the University of Oregon.
Owens Corning
2019 IETC Energy Award Winner

Owens Corning has been a paragon of excellence in industrial energy efficiency. The company joined the DOE Better Plants program in 2010 and met the program goal with a 31% cumulative improvement in energy intensity in 7 years. This represented an increase over the program goal of 6% and was accomplished 3 years early than the 10-year program timeframe. The company is continuing to improve energy intensity by at least 2.5% per year before re-pledging in a 2020 using that year as a baseline with a new, 10-year energy goal that will be cover all 58 plants in the U.S.

Owens Corning implemented a large-scale renewable energy technology campaign, which installed multiple renewable energy technologies at Owens Corning plants across the U.S. These locations and the technologies installed include:

- Toledo, Ohio, a solar array providing approximately 20% of the power needed for their world headquarters.
- Delmar, New York, a 2.7-megawatt solar panel system at their Delmar insulation plant providing approximately 7% of the required electricity for that plant.
- Kearny, New Jersey, a Roofing plant began sourcing approximately 14% of the required electricity from rooftop solar panels.
- Fairburn, Georgia, started operating a 1-megawatt solar project at this insulation plant that is expected to result in an estimated 1,054 metric tons of CO2 reduction in its first year of operation.
- Additionally, Owens Corning entered into PPAs for 250 megawatts of renewable electricity – 125 megawatts of wind energy in Texas, and another 125 megawatts in Oklahoma.

In addition, the company established an ambitious science-based target (SBT) for greenhouse gas emissions (GHG) reductions. The target is a 50% reduction in GHG emissions by 2020 based on a 2010 baseline. The company expects to achieve this goal using a combination of renewable energy and energy efficiency technologies in its plants. The decision to remain in the Better Plants program was in part motivated by this goal. The company expects to leverage Better Plants technical resources, networking platforms and access to DOE’s R&D capabilities in terms of energy technologies.

Ryan Spies, Saint Gobain
2019 IETC Energy Award Winner

Ryan Spies is currently the Sustainability and Energy Manager at Saint Gobain where he manages the Energy, Water, Waste & CO2 Emissions reduction strategy for 130+ manufacturing sites in North America. During Ryan’s 14+ year career, he has worked in a variety of roles (engineering, sustainability and business strategy) and has consistently worked to advance and promote resource productivity, sustainability, and corporate social responsibility strategies at 3 different Fortune 500 companies.

In his role at Saint Gobain, Ryan directs resources and strategies for use in manufacturing production facilities to reduce environmental impacts. His scope of responsibility includes overseeing and guiding the company’s operations which consume 6 million MWh of energy ($200M spend), 9 million m3 of water and emits 2 million tons of CO2.

To help his company move towards meeting its global sustainability/renewable goals, Ryan manages the strategy to meet global corporate goals through work with Saint Gobain’s 13 different business units where he directs business unit energy managers on the application of various reduction strategies. On renewable energy implementation, Ryan has developed and implemented the deployment of a renewable energy strategy for all sites in North America as alternative means of achieving carbon reduction targets and energy supply/price risk mitigation. Ryan directed the renewable energy team (comprised of legal, EHS, purchasing, treasury, finance, accounting, and BU leadership) to evaluate, bid, negotiate and contract a 156 MW solar power purchase agreement for the company which has resulted in a 30% reduction in emissions from electricity for US Operations. To make this happen, Ryan was instrumental in educating, engaging and influencing senior leadership (CEO, CFO and Paris affiliates) on project direction, including overall strategy and RFP deployment.
27th Energy Managers Workshop Schedule
Energy Management: Strategies and Successful Applications

Tuesday, June 18

7:00 am - 8:00 am  Registration

7:30 am - 8:00 am  Continental Breakfast, Parish Hall, 10th Floor

Workshop held in Feliciana Room, 10th Floor

8:05 am - 8:15 am  Opening Remarks – James Eggebrecht, Texas A&M University

8:15 am - 9:00 am  Energy Management, Where to Begin
Thomas Theising, Sustainable Energy Solutions

9:00 am - 9:45 am  DOE’s MEASUR Tools
Kiran Thirumaran, Oakridge National Laboratory

- 30 minute break -

10:15 am - 11:00 am  Tools to Evaluate Steam Load Changes on Operating Plants
James E. Robinson, DES Global LLC

11:00 am - 11:45 am  Strategic Planning Considerations for Energy Efficiency Upgrades of Fan Systems: Do You Go with Retrofit or New?
Vern Martin, FlowCare Engineering Inc.

12:00 pm - 1:00 pm  Lunch in Terrebonne Room, 9th Floor

1:00 pm - 1:45 pm  What You Can Learn from Review of Your Electrical Energy Bills
James A. Eggebrecht, Texas A&M University Industrial Assessment Center

1:45 pm - 2:15 pm  Energy Projects; Barriers to Implementation
Mike Stowe, Advanced Energy

- 30 minute break -

2:45 pm - 3:30 pm  Role of Industry in Climate Emissions and the Opportunities for Reductions Through Energy Efficiency
R. Neal Elliott, American Council for an Energy Efficient Economy

3:30 pm - 4:00 pm  Wrap-up, critiques & dismissal
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<tr>
<td>7:00 am – 5:00 pm</td>
<td>Registration and Information</td>
<td>Parish Hall, 10th Floor</td>
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<tr>
<td>7:30 am – 8:00 am</td>
<td>Continental Breakfast</td>
<td>Feliciana Room, 10th Floor</td>
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<tr>
<td>8:00 am – 5:00 pm</td>
<td>Energy Managers Workshop Morning Session</td>
<td>Feliciana Room, 10th Floor</td>
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<td>9:45 am – 10:15 am</td>
<td>Coffee and Snack Break</td>
<td>Parish Hall, 10th Floor</td>
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<tr>
<td>12:00 pm – 1:00 pm</td>
<td>Energy Managers Workshop Lunch</td>
<td>Terrebonne Room, 9th Floor</td>
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<td>1:00 pm – 5:00 pm</td>
<td>Energy Managers Workshop Afternoon Session</td>
<td>Feliciana Room, 10th Floor</td>
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<td>2:15 pm – 2:45 pm</td>
<td>Coffee and Snack Break</td>
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<td>Registration and Information</td>
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<td>7:15 am – 7:50 am</td>
<td>Conference Authors/Presenters Breakfast</td>
<td>Louisiana Ballroom 2, 10th Floor</td>
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<td>8:00 am – 8:15 am</td>
<td>Opening Welcome</td>
<td>Louisiana Ballroom 1, 10th Floor</td>
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<td>8:30 am – 9:00 am</td>
<td>American Chemistry Council Recognition of Energy Awards</td>
<td>Louisiana Ballroom 1, 10th Floor</td>
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<td>9:10 am – 11:45 am</td>
<td>1 – American Chemistry Council Award Winners 1</td>
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<td>2 – Steam Plants &amp; Equipment</td>
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<td>3 – The Energy Management Journey: From Nothing to ISO 50001 and Everything In Between (Panel Discussion)</td>
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<td>4 – Equipment Energy Issues</td>
<td>Terrebonne Room, 9th Floor</td>
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<td>10:15 am – 10:40 am</td>
<td>Break Time Sponsored by KBC Advanced Technologies</td>
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<tr>
<td>12:00 pm – 1:30 pm</td>
<td>IETC Luncheon &amp; Keynote Address</td>
<td>Louisiana Ballroom 2, 10th Floor</td>
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<td>1:45 pm – 5:00 pm</td>
<td>5 – Compressed Air</td>
<td>Feliciana East Room, 10th Floor</td>
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<td>6 – Data Analysis Methods 1</td>
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<td>7 – Evolution Of Renewables Energy Purchasing (Panel Discussion)</td>
<td>Louisiana Ballroom 1, 10th Floor</td>
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<td>8 – Combined Heat &amp; Power - Strategic Energy Resources</td>
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<td>2:50 pm – 3:20 pm</td>
<td>Break Time Sponsored by KBC Advanced Technologies</td>
<td>Parish Hall, 10th Floor</td>
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<td>5:30 pm – 7:30 pm</td>
<td>Reception for all attendees and guests</td>
<td>Parish Hall, 10th Floor</td>
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<td>7:30 am – 8:00 am</td>
<td>Continental Breakfast</td>
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<td>7:45 am – 8:40 am</td>
<td>Plenary Session - Climate Change and Industrial De-carbonization Panel Discussion</td>
<td>Louisiana Ballroom, 10th Floor</td>
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<td>8:50 am – 12:00 pm</td>
<td>9 – American Chemistry Council Award Winners 2</td>
<td>Feliciana East Room, 10th Floor</td>
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<td>10 – Data Analysis Methods 2</td>
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<td>11 – ISO 50001 - The Value of Energy Management</td>
<td>Terrebonne Room, 9th Floor</td>
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<td>12 – Water and Energy: The Deep Connection</td>
<td>St. Tammany Room, 9th Floor</td>
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<td>Break Time Sponsored by KBC Advanced Technologies</td>
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<td>12:00 pm – 1:30 pm</td>
<td>IETC Energy Awards Luncheon</td>
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<td>1:45 pm – 3:25 pm</td>
<td>13 – Better Plants Steam Working Group (Panel Discussion)</td>
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**Wednesday Morning, June 19**

7:00 am - 5:00 pm  Registration, Parish Hall, 10th Floor
7:15 am - 7:50 am  Breakfast for Wednesday’s and Thursday’s Authors and Session Chairs
                   Feliciana Room, 10th Floor, sponsored by ICF
                   For all other attendees in Parish Hall, 10th Floor Registration Area

8:00 am - 8:15 am  Welcoming Remarks: James Eggebrecht, Executive Director, IETC and Edward O’Brien Director
                   Energy, Louisiana Department of Natural Resources
8:15 am - 8:30 am  American Chemistry Council Recognition of Energy Awards Recognition of Responsible Care
                   Energy Awards, Lloyd Webb, Olin Corporation
8:30 am - 9:00 am  Plenary Address by Thomas Harris, Louisiana Department of Natural Resources

9:10 am - 11:50 am  Sessions 1 - 4

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

Session Chair: Lloyd Webb, Olin Corporation
Feliciana East Room, 10th Floor

10:15 am - 10:40 am  Coffee Break and Exhibits – Parish Hall, 10th Floor
10:40 am - 11:10 am  “30# Steam Elimination,” Kate Zabonik, Olin Corporation.
11:15 am - 11:45 am  “Distillation Heat Recovery System Upgrade,” Izabela Biedo, SABIC.

**Session 2 - Steam Plants & Equipment**

Session Chair: Neil Davies, Spirax Sarco, Inc.
Feliciana West Room, 10th Floor

9:45 am - 10:15 am  “Steam System Redundancy: Are You Really Operating at N + 1?” Ben Janvier and Marc Guerin,
                   Enero Solutions.
10:15 am - 10:40 am  Coffee Break and Exhibits – Parish Hall, 10th Floor
10:40 am - 11:10 am  “Steam Assisted Flares,” Mike Mabry, Spirax Sarco Inc.
11:15 am - 11:45 am  “Steam De-Superheater Optimization, Performance, and Troubleshooting,” Jay D’Amico and
                   Brian D. Kimbrough, Louisiana Steam Equipment Company.
Session 3 - The Energy Management Journey: From Nothing to ISO 50001 and Everything In Between (Panel Discussion)

Session Chair: R. Neal Elliott, American Council for an Energy Efficient Economy
Louisiana Ballroom 1, 10th Floor

Panelists:

Session 4 - Equipment Energy Issues

Session Chair: Vern Martin, FlowCare Engineering
Terrebonne Room, 9th Floor


10:15 am - 10:40 am  Coffee Break and Exhibits – Parish Hall, 10th Floor

10:40 am - 11:10 am  “Air Preheater System Upgrade on Coker Heaters,” Harsh Ghuge and Ashutosh Garg, Furnace Improvements Inc.


12:00 pm - 1:30 pm - IETC Luncheon & Keynote Address
Louisiana Ballroom 2, 10th Floor

Speaker: Ms. Maria T. Vargas, Senior Program Adviser, U. S. Department of Energy
Wednesday Afternoon, June 19

1:45 pm - 5:00 pm Sessions 5 – 8

Session 5 - Compressed Air

Session Chair: Thomas Theising, Sustainable Energy Solutions, LLC
Feliciana East Room, 10th Floor

1:45 pm - 2:15pm  “Introduction to Compressed Air Management,” Thomas Theising, Sustainable Solutions, LLC.

2:20 pm - 2:50 pm  “Using intelligent controls to reduce energy and create redundancy by allowing pressure dew-point to vary, a different approach to compressed air system design,” Mark Ames, John Henry Foster Company.

2:50 pm - 3:20 pm  Coffee Break and Exhibits – Parish Hall, 10th Floor


Session 6 - Data Analysis Methods 1

Session Chair: Edward O’Brien, Louisiana Department of Natural Resources
Feliciana West Room, 10th Floor

1:45 pm - 2:15 pm  “Consumer-Driven Shaving of Grid Demand using a Strategically Limited Incentive,” Austin Rogers, Texas A&M University Mechanical Engineering.

2:20 pm - 2:50 pm  “Reducing Demand at a Chemical Plant,” Mike Stowe, Advanced Energy.

2:50 pm - 3:20 pm  Coffee Break and Exhibits – Parish Hall, 10th Floor


Session 7 - Evolution of Renewables Energy Purchasing (Panel Discussion)

Session Chair: Jay Zoellner, Edison Energy
Louisiana Ballroom 1, 10th Floor

“Why Corporations are Buying Renewable Energy and How to Structure a PPA,” Christen Blum and Emily Williams, Edison Energy.

Panel: Trends in Corporate Procurement of Renewable Energy
• Moderator – Emily Williams, Senior Director of Energy Markets and Sustainability

Panelists:
• Ryan Spies, Sustainability and Energy Manager, Saint Gobain North America.
• Tommy Greer, Director of Energy Sales and Origination, EDP Renewables.
• Tim Juliani, World Wildlife Fund


Session 8 - Combined Heat & Power - Strategic Energy Resources

Session Chair: Tarla T. Toomer, Ph.D., U. S. Department of Energy
Terrebonne Room, 9th Floor

1:45 pm - 2:15 pm  “DOE Combined Heat and Power Program Updates,” Dr. Tarla T. Toomer, U.S. DOE.

2:20 pm - 2:50 pm  “New DOE CHP Tools and Resources,” Patti Garland, U.S. DOE.

2:50 pm - 3:20 pm  Coffee Break and Exhibits – Parish Hall, 10th Floor


3:55 pm - 4:25 pm  “CHP Success Story at a Specialty Chemicals Company,” Zac Fox and Kevin Davis, Evonik Industries.

4:30 pm - 5:00 pm  “DOE Technical Assistance through CHP TAPs,” Isaac Panzarella, Southeast CHP TAP.

5:30 pm - 7:30 pm - Reception
Parish Hall, 10th Floor
Thursday Morning, June 20

7:00 am - 12:00 pm  Registration for New Arrivals
7:15 am - 7:45 am  Breakfast, Parish Hall, 10th Floor

7:45 am - 8:40 am  Plenary Session Louisiana Ballroom

The domestic and international communities are considering how to respond to the threat of climate change. Manufacturing is a major source of CO2 emissions, but represents perhaps the most challenging sector because of its energy intensity and complexity, and its essential role in domestic and international economic growth and stability. A panel of experts will discuss technology and policy paths that are available to acceleration reductions in the emissions from the sector, focusing on roles of energy efficiency, renewable energy, research and development, and carbon capture, utilization and storage. This panel will draw upon results from a recent international workshop on industrial decarbonization convened by the Aspen Global Change Institute.

Panel lineup is:
Rebecca Dell, Hewlett Foundation (moderator)
Dr. William Morrow, Lawrence Berkeley National Laboratory
Dr. Neal Elliott, American Council for an Energy Efficient Economy
William A. Collins, Occidental Oil & Gas

8:50 am - 12:00 pm  Sessions 9 - 12

Session 9 - American Chemistry Council Award Winners 2

Session Chair: Marina N. Barta, ExxonMobil Chemical Company
Feliciana East Room, 10th Floor


9:55 am - 10:20 am  Coffee Break and Exhibits - Parish Hall, 10th Floor

10:20 am - 10:50 am  “Baytown Olefins Plant Furnace Decoke Improvements,” Marina N. Barta, ExxonMobil Chemical Company.


11:30 am - 12:00 pm  “Employee Engagement in Energy Reduction – Celanese Energy Community,” David Reid, Sr., Celanese Corporation.
Session 10 - Data Analysis Methods 2

Session Chair: James Robinson, DES Global, LLC
Feliciana West Room, 10th Floor


9:55 am - 10:20 am  Coffee Break and Exhibits - Parish Hall, 10th Floor


11:30 am - 12:00 pm  “Better Economics and Simplicity in Pinch Analysis,” Robert C. Smith.

Session 11 - ISO 50001 – The Value of Energy Management

Session Chair: Bruce Lung, U. S. Department of Energy
Terrebonne Room, 9th Floor


9:55 am - 10:20 am  Coffee Break and Exhibits - Parish Hall, 10th Floor


11:30 am - 12:00 pm  “How to Spark & Recharge ISO 50001 in Organizations,” David Arkell, 360 Energy
Session 12 - Water and Energy: The Deep Connection

Session Chair: Mike Stowe, Advanced Energy
St. Tammany Room, 9th Floor


9:55 am - 10:20 am  Coffee Break and Exhibits - Parish Hall, 10th Floor

10:20 am - 10:50 am  “CHP & Wastewater,” Gavin Dillingham, Southcentral DOE Technical Assistance Partnership (TAP).


11:30 am - 12:00 pm  Question & Answer Period for all Presenters

12:00 pm - 1:30 pm - IETC Energy Awards Luncheon
Louisiana Ballroom, 10th Floor

Thursday Afternoon, June 20

1:45 pm - 3:25 pm  Session 13

Session 13 - Better Plants Steam Working Group (Panel Discussion)

St. Tammany Room, 9th Floor

The DOE’s Better Plants program will host a session for the Steam System Working Group, a peer-based working group in which partners can learn about innovation related to specific industrial technologies, exchange information/best practices and programmatic updates. This session will provide an in-depth demonstration of the new Steam System Modeling Tool that is part of DOE’s MEASUR tools suite.

Moderators: Bruce Lung, U. S. Department of Energy
Kiran Thirumaran, Oakridge National Laboratory
IETC Staff
James A. Eggebrecht, Executive Director
Kimberly Greer, Conference Manager

Advisory Board
Joe Almaguer
Walter Brockway, Brockway Consulting
Neil Davies, Spirax Sarco, Inc.
Andre deFontaine, US Department of Energy
R. Neal Elliott, American Council for an Energy Efficient Economy
Peter Garforth, Garforth International llc
Scott Harrison, Vistra Energy
Dave Lauterbach, DuPont
Bruce Lung, U. S. Department of Energy
Michaela Martin, ICF International
Vern Martin, FLOWCARE Engineering Inc.
Cynthia Mascone, Chemical Engineering Progress
Sharon Nolen, Eastman Chemical Company
Edward O’Brien, Louisiana Department of Natural Resources
Bryan Rasmussen, Texas A&M University
James E. Robinson, DES Global, LLC
Scott Rouse, Energy @ Work
Steve Schultz, 3M Company
Eric Soucy, Natural Resources Canada
Mike Stowe, Advanced Energy
Thomas Theising, Sustainable Energy Solutions, LLC
Vince Torres, Texas Industries of the Future
Eddy Trevino, Texas State Energy Conservation Office
Kirtan Trivedi, ExxonMobil Research and Engineering
Vestal Tutterow, Lawrence Berkeley National Laboratory
Thomas Wenning, Oak Ridge National Laboratory
Jay Zoellner, Edison Energy

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Spirax Sarco, Inc.
Texas A&M Engineering Experiment Station Energy Systems Laboratory
Texas State Energy Conservation Office
TLV Corporation
US Department of Energy, Advanced Manufacturing Office

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Chemical Engineering Progress
Compressed Air Best Practices Magazine
Natural Resources Canada

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KBC Advanced Technologies
Louisiana Department of Natural Resources
MP2 Energy
Spirax Sarco, Inc.
TLV Corporation
US Department of Energy Advanced Manufacturing Office