



IETC 2015

June 2-4
New Orleans



The Thirty-Seventh Industrial Energy Technology Conference

Program

Hosted By:



ENERGY SYSTEMS LABORATORY
TEXAS A&M ENGINEERING EXPERIMENT STATION



IETC.TAMU.EDU

TABLE OF CONTENTS

Welcome	2
Major Events	3
Keynote Speakers	4
Award Recipients	6
Additional Information	7
Energy Managers Workshop	8
Program at-a-Glance	9
Conference Sessions	10
Conference Staff	17
IETC Advisory Board	17
2015 IETC Sponsors	17
Supporting Organizations	18
Exhibitors	18

WELCOME

On behalf of the hosts and sponsors of the Thirty- Seventh 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 twelve 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 2015 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. Eight 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

MAJOR EVENTS

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.

Workshops

The Pre-Conference Energy Managers Workshop continues for its twenty-third year, exploring the topic of “Energy Management: Strategies and Successful Applications.”

Sponsored Reception

The IETC reception at 5:30 p.m. on Wednesday evening June 3 is sponsored by Champion Energy Services.

Sponsored Coffee Breaks

Wednesday’s & Thursday’s Breaks are sponsored by Soteica Visual MESA LLC.

Wednesday Keynote Speaker

Features Kenneth A. Colburn of The Regulatory Assistance Project in the morning plenary.

Wednesday IETC Energy Award Luncheon

The IETC Awards Luncheon features IETC Energy Awards presentations to Volvo Group Trucks and Kathey Ferland of the Texas Industries of the Future.

Thursday Keynote Speaker

Features Dr. Mark Johnson of the U.S. Department of Energy, Advanced Manufacturing Office.

**KEYNOTE SPEAKERS
WEDNESDAY MORNING
PLENARY SPEAKER**



Mr. Kenneth A. Colburn, Senior Associate, The Regulatory Assistance Project
“EPA’s Clean Power Plan (CPP): Issues and Opportunities”

Kenneth A. (Ken) Colburn is a Senior Associate at RAP. He came to RAP, a non-profit group of veteran utility and environmental regulators providing technical and policy assistance to public utility commissions and regulatory agencies throughout the U.S., China, the EU, and India, in early 2011. Colburn has led several state climate action planning processes and provided strategic assistance to foundations, progressive companies, and non-governmental organizations in their efforts to address climate and energy issues.

Previously Colburn was Executive Director of the Northeast States for Coordinated Air Use Management (NESCAUM) and led the Air Resources Division of the New Hampshire Department of Environmental Services (NHDES), helping to make that state a leader in reducing air pollution with the nation’s first “4-pollutant” legislation for power plants and the first greenhouse gas emissions reduction registry law.

THURSDAY LUNCHEON SPEAKER



Dr. Mark Johnson, Director, U. S. Department of Energy, Advanced Manufacturing Office

Dr. Mark Johnson is Director of the Advanced Manufacturing Office (AMO), in DOE's Office of Energy Efficiency and Renewable Energy (EERE).

Previously, Dr. Johnson was a Program Director in the Advanced Research Projects Agency – Energy (ARPA-E), where he started initiatives in energy storage and critical materials, as well as projects in small business, advanced semiconductors, novel wind architectures, superconductors, and electric machines.

Prior to joining DOE, Dr. Johnson served as the director of the Industry and Innovation Programs for the Future Renewable Electric Energy Delivery and Management (FREEDM) Systems Center, a National Science Foundation Gen-III Engineering Research Center targeting the convergence of power electronics, energy storage, renewable resource integration, and information technology for electric power systems. At North Carolina State University, Dr. Johnson is an Associate Professor of Materials Science and Engineering with research interests including crystal growth and device fabrication of compound semiconductor materials with electronic and photonic application.

WEDNESDAY AWARDS LUNCHEON

Kathey Ferland, Texas Industries of the Future

2015 IETC Energy Award Winner

Kathey is a Project Manager with the Center for Energy and Environmental Resources. She currently manages the Texas Industries of the Future project focused on finding efficient energy management practices and technologies that offer a solution to economic and environmental challenges faced by the state's industries.

During her time with Texas Industries of the Future, Kathey has delivered a variety of programs that benefitted both the largest energy intensive manufacturers and small and medium sized industrial business operations. Her work included organizing and facilitating over a hundred workshops, forums, and seminars for energy engineers. These events had with combined attendance of over 5,000 people. She excels in identifying the priority energy, water, and technology areas of need and facilitates peer exchange that results in real and measurable savings.

Among Kathey's many successful projects is the energy-efficiency site-based certification program, Superior Energy Performance (SEP). SEP was developed from a Texas Industries of the Future advisory committee's idea to create a certification program for the chemical and refining sector that is backed by demonstrated energy savings. Kathey began the program as a pilot study in 2007 and was actively involved in growing SEP to what it is today, a nationally recognized DOE certification with more than 25 plants throughout the country.

Volvo Group Trucks

2015 IETC Energy Award Winner

The Volvo Group is one of the world's leading manufacturers of trucks, buses, construction equipment and marine and industrial engines. The Group also provides complete solutions for financing and service. The Volvo Group, which employs about 115,000 people, has production facilities in 19 countries and sells its products in more than 190 markets. The company takes a holistic approach to sustainability through a combination of energy efficiency, renewable fuels, continual environmental improvement, technology development and efficient utilization of resources.

The Volvo Trucks New River Valley manufacturing facility in Dublin, Va. first partnered with the Department of Energy in October of 2009, pledging to reduce its energy intensity by 25% or more within 10 years. New River Valley achieved this goal within one year of joining the program. The Volvo Group in North America furthered its commitment to energy efficiency in March 2013 by expanding Volvo's participation to all U.S. manufacturing sites (New River Valley, Mack Trucks plant in Macungie, Pa., Powertrain facility in Hagerstown, Md., Remanufacturing sites in Middletown, Pa. and Charlotte, N.C., Volvo Penta in Lexington, Tenn., Volvo Bus and Nova Bus in Plattsburgh, N.Y., and Volvo Construction Equipment in Shippensburg, Pa.). The North American plants are on track to achieve at least a 25% reduction in energy intensity by 2020.

In regards to recent achievements, Volvo Group Trucks marked the end of 2014 with an impressive achievement: its Hagerstown, Maryland facility became the third facility within the Volvo Group to be certified to the Superior Energy Performance® (SEP™) program and to ISO 50001.

The Hagerstown facility improved its energy performance by 20.9% over three years to achieve Platinum level SEP certification. It joins two other Volvo Group Truck facilities at that certification level. The company's Dublin, Virginia, facility improved its energy performance by 25.8% over three years to earn SEP certification in 2012. The following year, Mack Trucks, also part of the Volvo Group, achieved a 41.9% improvement over ten years at its facility in Macungie, Pennsylvania. To date, these three facilities have posted the highest energy performance improvements of all SEP certified plants.

To qualify for SEP, these facilities set up a robust energy management system, tracked improvements in energy performance, and had the results independently verified by an accredited SEP Verification Body. Certification to the ISO 50001 standard for energy management systems is an integral part of the SEP certification process.



ADDITIONAL INFORMATION

Proceedings

The IETC Proceedings are available at the IETC website:
<http://ietc.tamu.edu/programs>

Call for Papers

Abstracts are now being accepted for the Thirty-Eighth Industrial Energy Technology Conference. Interested authors should submit one electronic abstract of not more than 400 words by September 25, 2015 to:

James A. Eggebrecht
IETC Executive Director
Energy Systems Laboratory

Phone: (979) 845-1508
Email: jim@esl.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.

23rd Energy Managers Workshop Schedule

Energy Management: Strategies and Successful Applications

Tuesday, June 2

7:30 am - 8:00 am Registration

Workshop held in Feliciano Room, 10th Floor

8:00 am - 8:15 am Opening Remarks – James Eggebrecht, Texas A&M University

8:15 am - 9:15 am Organizing for Success, Creating a Sustainable Energy Management Program
Thomas Theising, Sustainable Energy Solutions

9:15 am - 10:00 am Managing Energy at a Large Industrial Company
Walter F. Brockway, Alcoa, Inc.

- 15 minute break -

10:15 am - 11:15 am What it Takes to Sustain an Energy Program
Fred C. Schoeneborn, FCS Consulting Services Inc.

11:15 am - 12:00 pm Leveraging Energy Management to Address Water Conservation
Sharon Nolen, Eastman Chemical Company

12:00 pm - 1:00 pm Lunch in St. Landry Room, 9th Floor

1:00 pm - 2:00 pm Integrated Site Planning – Creating a Roadmap to Breakthrough Energy Productivity
Peter Garforth, Garforth International llc and Gerd Fleischhammer, Ingenieurburo Gerd Fleischhammer

2:00 pm - 2:45 pm Effective Strategies for Using Simple Payback: A Checklist for Energy Managers
Christopher Russell, Energy Pathfinder Management Consulting LLC

- 30 minute break -

3:15 pm - 3:45 pm DOE Better Plants Program: New Ways of Finding Energy Savings and Delivering Value to Industry
Robert Bruce Lung, U. S. Department of Energy

3:45 pm - 4:45 pm Cost Components of a Retail Electricity Price
Eric Bratcher, 5

4:45 pm - 5:00 pm Wrap-up, critiques & dismissal



Program At A Glance

Tuesday, June 2 – Workshop Day					
7:00 am – 5:00 pm	Registration and Information– Parish Hall – 10th Floor				
7:15 am – 8:00 am	Continental Breakfast – Felician Room – 10th Floor				
8:00 am – 5:00 pm	Energy Managers Workshop – Felician Room - 10th Floor				
10:00 am – 10:15 am	Coffee and Snack Break – Parish Hall – 10th Floor				
12:00 pm – 1:00 pm	Energy Managers Workshop Lunch – St. Landry - 9th Floor				
2:45 pm – 3:15 pm	Coffee and Snack Break – Parish Hall – 10th Floor				
Wednesday, June 3 – Day 1 of Conference					
7: 00 am – 5:00 pm	Registration and Information – Parish Hall – 10th Floor				
7:15 am – 7:50 am	Continental Breakfast – Parish Hall – 10th Floor				
7:15 am – 7:50 am	Breakfast for All Authors and Session Chairs – Felician Room – 10th Floor				
7:15 am – 7:50 pm	Exhibits Open – Parish Hall – 10th Floor				
8:00 am 8:25 am	Opening Welcome – Louisiana Ballroom – 10th Floor				
8:25 am – 8:40 am	American Chemistry Council Recognition of Responsible Care Energy Awards Louisiana Ballroom – 10th Floor				
8:40 am – 9:05 am	Plenary Address by Kenneth Colburn, The Regulatory Assistance Project – Louisiana Ballroom – 10th Floor				
Technical Sessions 1 - 4	Felician East – 10th Floor	Felician West – 10th Floor	St. Landry – 9th Floor	St. Tammany – 9th Floor	
9:15 am – 11:50 am	1 – American Chemistry Council Award Winners 1	2 – Combined Heat & Power	3 – ISO 50001 and SEP	4 – Demand Response Programs	
10:20 am – 10:45 am	Coffee Break and Exhibits – Parish Hall – 10th Floor				
12:00 pm – 1:30 pm	IETC Awards Luncheon – Speakers from IETC Energy Award Winners – Louisiana Ballroom – 10th Floor				
Technical Sessions 5 - 7	Felician East – 10th Floor	Felician West – 10th Floor	St. Landry – 9th Floor		
1:45 pm – 5:00 pm	5 – American Chemistry Council Award Winners 2	6 – Equipment Analysis One	7 – Process Energy Efficiency		
2:50 pm – 3:15 pm	Coffee Break and Exhibits – Parish Hall – 10th Floor				
5:30 pm – 7:30 pm	Reception Sponsored by Champion Energy Services – Parish Hall – 10th Floor				
Thursday, June 4 – Day 2 of Conference					
7:30 am – 2:00 pm	Registration and Information – Parish Hall – 10th Floor				
7:45 am – 8:30 am	Continental Breakfast – Parish Hall – 10th Floor				
8:00 am – 2:00 pm	Exhibits Open – Parish Hall – 10th Floor				
Technical Sessions 8 - 12	Felician East – 10th Floor	Felician West – 10th Floor	St. Landry – 9th Floor	St. Tammany – 9th Floor	Pionte Coupee – 9th Floor
8:30 am – 12:00 pm	8 – American Chemistry Council Award Winners 3	9 – Energy Analysis	10 – Water and Energy Issues	11 – Program Evaluation	12 – Equipment Analysis Two
9:35 am – 10:15 am	Coffee Break and Exhibits – Parish Hall – 10th Floor				
12:00 pm – 1:30 pm	IETC Luncheon – Keynote Speaker – Louisiana Ballroom – 10th Floor Dr. Mark Johnson, Director, U. S. Department of Energy Advanced Manufacturing Office				

IETC CONFERENCE SESSIONS

Wednesday Morning, June 3

- 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 International
- For all other attendees breakfast is in **Parish Hall**, Registration Area
- 7:15 am - 7:50 pm** Exhibits open, **Parish Hall, 10th Floor**
- 8:00 am - 8:25 am** **Welcoming Remarks:** James Eggebrecht, Executive Director, IETC and Paul Miller. Assistant Director Energy, Louisiana Department of Natural Resources
Louisiana Ballroom, 10th Floor
- 8:25 am - 8:40 am** American Chemistry Council Recognition of Responsible Care Energy Awards
- 8:40 am - 9:05 am** Keynote Speaker: Kenneth Colburn, Senior Associate, The Regulatory Assistance Project
- 9:15 am - 11:50 am** Sessions 1 - 4

Session 1 - American Chemistry Council Award Winners 1

Session Chair: Dave Lauterbach, DuPont

Feliciana East Room, 10th Floor

- 9:15 am - 9:45 am** "LyondellBasell Completes a Major Plant Workover to Dramatically Improve Energy Intensity in LaPorte Texas,"
Nani R. Deole and Hans Stam, LyondellBasell.
- 9:50 am - 10:20 am** "Occidental Chemical Corporation Alters the Geismar EDC Unit and Reduces Energy Usage by 50%,"
Alan Truver and Lynn Fink, Occidental Chemical Corporation.
- 10:20 am - 10:45 am** Coffee Break and Exhibits – **Parish Hall, 10th Floor**
- 10:45 am - 11:15 am** "DuPont Parlin Energy Conservation Team,"
Rich Derer, Mike Pollock, Bryan Mumink, Vee Guidry and Jimmy Kersch, E. I. DuPont.

Session 2 - Combined Heat and Power

Session Chair: Scott Harrison, TXU Energy

Feliciano West Room, 10th Floor

- 9:15 am - 9:45 am** "Stabilized Cogeneration,"
K. A. "Bud" Leavell, Piller USA Inc.
- 9:50 am - 10:20 am** "Helping to Relieve Grid Stress,"
Scott Clark, Burns & McDonnell.
- 10:20 am - 10:45 am** Coffee Break and Exhibits – **Parish Hall, 10th Floor**
- 10:45 am - 11:15 am** "Combined Heat and Power in EPA's Clean Power Plan,"
Meegan Kelly, American Council for an Energy Efficient Economy.
- 11:20 am - 11:50 am** "Energy Savings Opportunities through Combined Heat and Power Systems Optimization Model Case Studies,"
Mana M. Owaidh, Saudi Aramco Company.

Session 3 - ISO 50001 and SEP

Session Chair: Vern Martin, FLOWCARE Engineering Inc.

St. Landry Room, 9th Floor

- 9:15 am - 9:45 am** "Global Collaboration on Energy Management,"
Graziella Siciliano, U.S. Department of Energy.
- 9:50 am - 10:20 am** "Implementing ISO 50001 and SEP – How ICT Facilitates Implementation,"
Mike Brogan, Enerit Ltd.
- 10:20 am - 10:45 am** Coffee Break and Exhibits – **Parish Hall, 10th Floor**
- 10:45 am - 11:15 am** "ISO 50001 Energy Management Standard as a Vehicle to Sustainable Energy Management at 3M Company,"
Andrew Hejnar, 3M Canada.
- 11:20 am - 11:50 am** "Wisconsin's SEM Leaders Program: Meeting Industry's Needs for Strategic Energy Management,"
Timothy Dantoin, and John Nicol, Leidos Engineering.

Session 4 - Demand Response Programs

Session Chair: James E. Robinson, DES Global, LLC

St. Tammany Room, 9th Floor

- 9:15 am - 9:45 am** "Utility Assessments for Real Time Pricing and Demand Response Environments,"
James E. Robinson, DES Global, LLC.
- 9:50 am -10:20 am** "Facility Scale Energy Storage for Peak Demand Management and Demand Response,"
Jesse Remillard and Jeffrey N. Perkins, Energy & Resource Solutions.
- 10:20 am - 10:45 am** Coffee Break and Exhibits – **Parish Hall, 10th Floor**
- 10:45 am - 11:15 am** "Demand Response and Peak Load Management; Programs, Products and Technology,"
Andrew Barth, Links Energy Partners.
- 11:20 am - 11:50 am** "Smart Grid – You Are Not Alone,"
David Heitzer, EDF Trading North America LLC.

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

Wednesday Afternoon, June 3

1:45 pm - 5:00 pm Sessions 5 – 7

Session 5 - American Chemistry Council Award Winners 2

Session Chair: Ray Ratheal, Eastman Chemical

Feliciano East Room, 10th Floor

- 1:45 pm - 2:15 pm** "MeadWestvaco Specialty Chemicals 'Sons of Energy' Team's Projects Garner Plant Energy Intensity Reductions,"
Scott Crowell and John Pocta, MeadWestvaco.
- 2:20 pm - 2:50pm** "Ashland Inc. Installation of Heat Recovery Steam Generators Energy Savings Projects,"
Frank Stevens and Tim Whitaker, Ashland Inc.
- 2:50 pm - 3:15 pm** Coffee Break and Exhibits – **Parish Hall, 10th Floor**

Session 6 - Equipment Analysis One

Session Chair: Thomas Theising, Sustainable Energy Solutions, LLC

Feliciano West Room, 10th Floor

- 1:45 pm - 2:15 pm** "Increase Energy Efficiency by Analyzing Cooling Water Systems,"
Peter Phelps, Phelps Engineering, and Todd Willman, EPI Engineering.
- 2:20 pm - 2:50 pm** "Major Energy Efficiency Retrofit Opportunities in Process Evaporation,"
Bryan Hackett, kW Engineering.
- 2:50 pm - 3:15 pm** Coffee Break and Exhibits – **Parish Hall, 10th Floor**
- 3:15 pm - 3:45 pm** "Simulating Energy Efficient Control of Multiple-Compressor Compressed Air Systems,"
Sean Murphy, EnerNOC, and Kelly Kissock, University of Dayton Industrial Assessment Center.
- 3:50 pm - 4:20 pm** "Trending and Tracking Energy Surveys,"
James Nipper, Petro Chemical Energy.

Session 7 - Process Energy Efficiency

Session Chair: Sérgé Bedard, Natural Resources Canada

St. Landry Room, 9th Floor

- 1:45 pm - 2:15 pm** "Comprehensive Energy Efficiency in the Process Industries,"
Alan Rossiter, Rossiter and Associates, and Beth Jones, LyondellBasell (retired).
- 2:20 pm - 2:50 pm** "Caught Between a Rock and Hard Place – How Lehigh Hanson Achieves Energy Success at Aggregate Plants,"
Stephen B. Austin, TenX Energy Corporation and Leroy Goree, Lehigh Hanson Incorporated.
- 2:50 pm - 3:15 pm** Coffee Break and Exhibits – **Parish Hall, 10th Floor**
- 3:15 pm - 3:45 pm** "Steinway & Sons Upgrades Its Turn-of-the-Century Brick Kilns to a Quick-Dry Partial Vacuum System,"
Ryan Bossis, Energy and Resource Solutions, and Bill Rigos, Steinway & Sons.
- 3:50 pm - 4:20 pm** "Use of a Comprehensive Utility Software for Optimal Energy Management and Electric Grid Failure Assessment in an Oil Refinery,"
Serge, Bédard, Abdelaziz Hammache, Bruno Poulin, and Etienne Ayotte-Sauvé, Natural Resources Canada, CanmetENERGY, Industrial Systems Optimization.

5:30 - 7:30 p.m. Reception Sponsored by Champion Energy Services in the Parish Hall Registration Area

Thursday Morning June 4

- 7:30 am - 2:00 pm** Registration for New Arrivals, **Parish Hall, 10th Floor**
- 7:45 am - 8:30 am** Continental Breakfast, **Parish Hall, 10th Floor**
- 8:00 am - 2:00 pm** Exhibits Open, **Parish Hall, 10th Floor**
- 8:30 am - 12:00 pm** Sessions 8 - 12

Session 8 - American Chemistry Council Award Winners 3

Session Chair: Jim Eggebrecht, TAMU Energy Systems Laboratory

Feliciano East Room, 10th Floor

- 8:30 am - 9:00 am** "BASF Corporate Energy Management Process,"
Ty Geiger, BASF Corporation.
- 9:05 am - 9:35 am** "BASF Geismar Site Steam System Optimization,"
Jason Gathright, BASF Corporation.
- 9:35 am - 10:15 am** Coffee Break and Exhibits – **Parish Hall, 10th Floor**

Session 9 - Energy Analysis

Session Chair: Walt Brockway, Alcoa, Inc.

Feliciano West Room, 10th Floor

- 8:30 am - 9:00 am** "Lean Analysis of Industrial Energy Assessments,"
Raul J. Viera, Jim Lee, and Sally McInerney, University of Louisiana – Lafayette, Department of Mechanical Engineering.
- 9:05 am - 9:35 am** "Modern Visualization of Industrial Energy Use and Loss,"
Sabine Brueske, Energetics Incorporated.
- 9:35 am - 10:15 am** Coffee Break and Exhibits – **Parish Hall, 10th Floor**
- 10:15 am - 10:45 am** "Energy Savings Opportunity in Manufacturing Lightweight Structural Materials,"
Sabine Brueske, Energetics Incorporated.
- 10:50 am - 11:20 am** "Preparing for a Successful Energy Audit,"
Thomas Theising, Sustainable Energy Solutions, LLC.

Session 10 - Water and Energy Issues

Session Chair: Vestal Tutterow, Project Performance Company

St. Landry Room, 9th Floor

- 8:30 am - 9:00 am** “Developing a Corporate Water Management Strategy,”
Vestal Tutterow and Jackson Stubbs, Project Performance Company.
- 9:05 am - 9:35 am** “Identifying Water Savings in Industrial Operations,”
Thomas Theising, Sustainable Energy Solutions, LLC.
- 9:35 am - 10:15 am** Coffee Break and Exhibits – **Parish Hall, 10th Floor**
- 10:15 am - 10:45 am** “Evaluation of Impacts on Energy and Plant Profitability of Responses to Water Curtailment,”
Kathy Ferland, University of Texas, and Peter Phelps, Phelps Engineering.
- 10:50 am - 11:20 am** “Water Savings in Food Processing Plants – Potentials and Case Studies,”
Alexander Trueblood, Mark Ritchie, and Sandra Chow, BASE Energy, and Ahmad R. Ganji, San Francisco State University.

Session 11 - Program Evaluation

Session Chair: Bruce Lung, U.S. Department of Energy

St. Tammany Room, 9th Floor

- 8:30 am - 9:00 am** “The Value Proposition of Industrial Energy Efficiency Programs,”
Ethan A. Rogers, American Council for an Energy Efficient Economy.
- 9:05 am - 9:35 am** “Costs and Benefits of Capital Finance Through Energy Service Outsourcing,”
Christopher Russell, Energy Pathfinder Management Consulting, LLC.
- 9:35 am - 10:15 am** Coffee Break and Exhibits – **Parish Hall, 10th Floor**
- 10:15 am - 10:45 am** “Overcoming Conservative Payback Rules for Energy Efficiency Projects,”
Andre de Fontaine, Advanced Manufacturing Office, U.S. Department of Energy.
- 10:50 am - 11:20 am** “Employee Based Energy Management Plan,”
Oluseum Osho, Jim Lee, and Sally Anne McInerney, The University of Louisiana at Lafayette, Department of Mechanical Engineering.
- 11:20 am - 11:50 am** “The Impact of Quality Control Scrap and Rework Reduction on Energy Use,”
Paul T. Otis, U. S. Department of Energy Energy Information Administration, and Konstantinos P. Triantis, Virginia Tech-Northern Virginia Center.

Session 12 - Equipment Analysis Two

Session Chair: Bryan Rasmussen, Texas A&M University

Pointe Coupee Room, 9th Floor

- 8:30 am - 9:00 am** "How to Avoid Danger, Damage, and Dollars Lost in Steam Systems,"
James R. Risko, TLV Corporation.
- 9:05 am - 9:35 am** "A Case Study of In-situ Rejuvenation of Degraded Insulation on Industrial Piping in Hot Service,"
John Williams, Aspen Aerogels, Inc.
- 9:35 am - 10:15 am** Coffee Break and Exhibits – **Parish Hall, 10th Floor**
- 10:15 am - 10:45 am** "Development of an Automated Fault Detection System Tool for Unitary Air Conditioners at Industrial Energy Audits,"
Priyam Parikh, ClearResult, and Bryan P. Rasmussen, Texas A&M University Industrial Assessment Center.
- 10:50 am - 11:20 am** "What Problems can be Encountered when Efficiency Upgrades are Made to Fans and what Should the Approach be to Address Those Problems,"
Vern Martin, FLOWCARE Engineering Inc.
- 11:20 am - 11:50 am** "Progressive Vacuum Degradation Within Pipestills and Vacuum Towers,"
Brian Kimbrough, Louisiana Steam Equipment Company.

12:00 - 1:30 p.m. Keynote Luncheon
Louisiana Ballroom, 10th Floor

IETC STAFF AND ADVISORY BOARD

IETC Staff

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

Advisory Board

Joe Almaguer, The DOW Company
Walter Brockway, Alcoa, Inc.
Neil Davies, Spirax Sarco, Inc.
R. Neal Elliott, American Council for an Energy Efficient Economy
Kathey Ferland, Texas Industries of the Future
Peter Garforth, Garforth International llc
Scott Harrison, TXU Energy
Dave Lauterbach, DuPont
Bruce Lung, U. S. Department of Energy
Rick Marsh, Industrial Energy Efficiency Network
Michaela Martin, ICF International
Vern Martin, FLOWCARE Engineering Inc.
Cynthia Mascone, Chemical Engineering Progress
Patricia Nussbaum, Louisiana Department of Natural Resources
Bryan Rasmussen, Texas A&M University Mechanical Engineering
Frank Roberto, ExxonMobil Chemical Company
James E. Robinson, DES Global LLC
Scott Rouse, Energy @ Work
Christopher Russell, Energy Pathfinder Management Consulting, LLC
Fred Schoeneborn, FCS Consulting Services Inc.
Steve Schultz, 3M Company
Eric Soucy, Natural Resources Canada
Thomas Theising, Sustainable Energy Solutions, LLC
Eddy Trevino, Texas State Energy Conservation Office
Vestal Tutterow, Project Performance Company
Thomas Wenning, Oak Ridge National Laboratory
Jay Wrobel, US Department of Energy

Sponsors

American Chemistry Council
Champion Energy Services
ICF International
Louisiana Department of Natural Resources
Soteica Visual MESA LLC.
Spirax Sarco, Inc.
TLV Corporation
US Department of Energy, Advanced Manufacturing Office
Texas A&M Engineering Experiment Station Energy Systems Laboratory

Supporting Organizations

Association of Energy Engineers
Business Energy
Chemical Engineering Progress
Compressed Air Best Practices Magazine
Natural Resources Canada
Navigant Research

Exhibitors

Champion Energy Services
EPI Engineering
Louisiana Steam Equipment Company
Soteica Visual MESA LLC.
Spirax Sarco, Inc.
TLV Corporation
US Department of Energy Advanced Manufacturing Office