



IETC 2020

VIRTUAL

December 8 -11

The Forty Second Industrial Energy Technology Conference



The Forty Second Industrial Energy Technology Conference

Prelim Program

Hosted By:



ENERGY SYSTEMS LABORATORY
TEXAS A&M ENGINEERING EXPERIMENT STATION



SECO
State Energy Conservation Office

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Welcome

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

Information/Registration

How to contact us:

General conference information, presentations, speakers

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Executive Director

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Other information, including registration

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Get updated IETC information at

<http://ietc.tamu.edu/>

Conference Registration

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

Conference Schedule

Tuesday, December 8th

Technical Session # 1
Technical Session # 2

9:10 am - 11:45 am
1:45 pm - 5:00 pm

Wednesday, December 9th

Technical Session # 3
Technical Sessions # 4 & 5

9:10 am - 11:45 am
1:45 pm - 5:00 pm

Thursday, December 10th

Technical Sessions # 6 & 7
Technical Session # 8

9:10 am - 11:45 am
1:45 pm - 5:00 pm

Friday, December 11th

Technical Session # 9
Technical Session # 10

8:50 am - 12:00 pm
1:45 pm - 3:25 pm

Conference Sessions

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.**

“Long Term Evaluation of Electricity Savings of the On-demand Industrial Ventilation Installations,” **Ales Litomisky, Ecogate, Inc.**

“Energy Savings of Motor Speed Control in an Airplane Painting Hanger: A Case Study,” **Peng Solomon Yin and Terrence Chambers, University of Louisiana - Lafayette.**

“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

“Energy Storage in Automotive Industry Applications,” **John Andrepont, The Cool Solutions Company.**

“Energy Efficient Design of Industrial Process Through Life Cycle Cost Optimization,” **Sami Al Mutairi and Zeeshan Farooq, Saudi Aramco.**

“Power Generation Capacity Enhancement of an Industrial Facility’s Cogeneration System,” **Abdulrahman Hazazi and Zeeshan Farooq, Saudi Aramco.**

“Two Birds With One Stone – How Industry Becomes More Resilient and Reduces Costs with CHP,” **Gavin Dillingham, HARC SouthCentral CHP Technical Assistance Partnership and Bob Gemmer, CHP Technology Manager, U.S. Department of Energy.**

“Evaluating the Technical and Economic Opportunity for Solar Industrial Process Heat,” **Carrie Schoeneberger and Jingyi Zhang, Northwestern University, Eric Masenet, University of California - Santa Barbara, and Colin McMillan, Parthiv Kurup, and Robert Margolis, National Renewable Energy Laboratory.**

Wednesday Morning, December 9

9:10 am - 11:45 am Session 3

Session 3 – Compressed Air System Engineering Best Practices

“Best Practices for System Engineering, Supply Side,” **Tim Dugan, Compression Engineering Corporation.**

“Best Practices for Automation, Supply Side,” **Robert McCowan, Case Engineering Inc.**

“Best Practices for System Engineering, Demand Side,” **Josh Wamser, Industrial Compressor Solutions.**

“Best Practices for System Measurement, Demand Side,” **Menno Verbeek, VP Instruments.**

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.**

“Loading the More Efficient Column.” **Kelsey Bailey, Eastman Chemical Company.**

“Olin Freeport Bisphenol-A Energy Efficiency,” **Michael Mantas, Olin Corporation.**

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.**

“Preserving Cash Post-COVID-19 by Pursuing Efficiency,” **Ed Rightor, American Council for an Energy Efficient Economy.**

Thursday Morning, December 10

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

Session 6 – American Chemistry Council Award Winners 2

“Boiler 23 & 24 Efficiency Improvement,” **Marcus Johnson, Eastman Chemical Company.**

“Utilize Low Btu Off-Gas in Utility Boilers,” **Charlie Hunt, Eastman Chemical Company.**

“Washington Works Steam & Electricity Conservation,” **Michael Chisholm, DuPont Company.**

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

Session 7 - Tools for Efficiency Improvements

“Reducing Energy Cost through the Use of Digital Twin Technology,” **Benoit Janvier, Enero Solutions.**

“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

“Strategic Energy Management,” **Mike Stowe, Advanced Energy.**

“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
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Hosts

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

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