

32ND USAEE/IAEE NORTH AMERICAN CONFERENCE • JULY 28-31, 2013 • ANCHORAGE, AK • HOTEL CAPTAIN COOK



[→ Program](#) → [Registration](#) → [Accommodations](#) → [General Information](#) → [Sponsors](#) → [Students](#) → [Tour/Special Events](#)

CONFERENCE PROGRAM

SUNDAY 7/28 & MONDAY 7/29 | TUESDAY 7/30 & WEDNESDAY 7/31 | [PRINTABLE PROGRAM](#)

SUNDAY, JULY 28

REGISTRATION
12:00n - 7:00pm • Outside Whitby Room - Lower Lobby

USAAE COUNCIL LUNCH (BY INVITATION)
12:00n - 1:00pm • Club Room II - Tower 1, 10th Floor
Sponsored By: **Northern Economics**

USAAE COUNCIL MEETING
1:00pm - 4:30pm • Quarter Deck - Tower 1, 10th Floor

OPENING RECEPTION
6:00pm - 7:30pm • Quarter Deck - Tower 1, 10th Floor

NETWORKING DINNERS
7:30pm - 9:30pm
Cost not included in conference registration; sign up during Opening Reception.

MONDAY, JULY 29

REGISTRATION
7:00am - 7:00pm • Outside Whitby Room - Lower Lobby

CONTINENTAL BREAKFAST
7:30am - 8:30am • Fore Deck Room

STUDENT BREAKFAST MEETING
7:30am - 8:30am • Quarter Deck - Tower 1, 10th Floor

PRESIDER'S HUDDLE
8:10am - 8:25am • Easter Island Room - Lower Lobby

WELCOME AND INTRODUCTION
8:30am - 9:00am • Mid Deck Room

OPENING PLENARY SESSION: ENERGY DEVELOPMENT IN THE ARCTIC
9:00am - 10:30am • Mid Deck Room

This session focuses on the geopolitical aspects of Arctic energy development. Important issues include potential energy resources of the Arctic Offshore, competing claims to the Outer Continental Shelf, the Law of the Sea Treaty and future U.S. participation, onshore transportation, the risks of oil spills and other pollution, and international cooperation in dealing with issues and events.

Benjamin Schlesinger *(Co-Presiding)*
President, Benjamin Schlesinger & Assoc LLC

Frances Ann 'Fran' Ulmer *(Co-Presiding & Speaker)*
Chair, U.S. Arctic Research Commission, University of Alaska Anchorage

Admiral Tom Barrett, USCG (ret.)
President, Alyeska Pipeline Service Company

Roland R. George
Board Member, National Energy Board

SUPPORTED BY:





FOR MORE INFORMATION :

Conference Secretariat
USAAE/IAEE Headquarters
28790 Chagrin Blvd.,
Suite 350
Cleveland, OH 44122 USA
Tel: 216-464-2785
Fax: 216-464-2768

COFFEE BREAK

10:30am - 11:00am • Discovery Ballroom
Foyer

CONCURRENT SESSIONS 1 - 7

11:00am - 12:30pm

AWARDS LUNCH

12:30pm - 2:30pm • Fore Deck Room

USAEE Adelman Frankel Award presented
to: Rice University's Baker Institute Center
for Energy Studies

John R. 'Jack' Roderick (*Keynote Speaker*)
Author, *Crude Dreams: A Personal History*
of Oil and Politics in Alaska
"A Short History of the Development of the
Oil Industry in Alaska"

**DUAL PLENARY SESSION: NATURAL
GAS MARKETS**

2:30pm - 4:00pm • Mid Deck Room

Natural gas production and trade is
fragmented into many regional markets
that often have completely independent
pricing. The largest markets are in North
America, Europe, and Asia Pacific regions
and each was widely different prices.

[View Full Description](#)

Nick Szymoniak (*Presiding*)
Project Economist, Alaska Energy
Authority

Larry Persily
Federal Coordinator, Alaska Natural Gas
Transportation Projects

Surya Rajan
Director, Upstream Research & Global
Gas, IHS CERA

Kenneth B. Medlock III
Senior Director, Center for Energy Studies,
Baker Institute, Rice University

**DUAL PLENARY SESSION: ISOLATED /
DEDICATED POWER GRIDS: MAKING
THEM WORK**

2:30pm - 4:00pm • Aft Deck Room

Alaska is home to hundreds of isolated
power grids, with unique electric supply
and demand profiles creating difficult
integration problems demanding new
innovations and solutions. Similar isolated
power grids exist throughout the world and
much benefit would come from increased
sharing of experiences.

[View Full Description](#)

Jason Meyer (*Presiding*)
Emerging Energy Technology Program
Manager, University of Alaska Fairbanks

Marc Mueller-Stoffels
Lead Researcher for Wind-Diesel
Applications Center and Hybrid
Applications Testbed, Alaska Center for
Energy and Power (ACEP)

Brian Hirsch

Senior Project Leader, NREL's Alaska Initiative

Steve Gilbert

Senior Project Manager, Alaska Village Electric Cooperative

COFFEE BREAK

4:00pm - 4:30pm • Discovery Ballroom Foyer

CONCURRENT SESSIONS 8 - 14

4:30pm - 6:00pm

USAEE CHAPTER LEADERSHIP MEETING

5:00pm - 6:00pm • Club Room I - Tower 1, 10th Floor

POSTER SESSION AND NETWORKING RECEPTION

6:15pm - 8:00pm • Fore Deck Room

Sponsored By: **Anchorage Association for Energy Economics**

1. Reforming Fossil Fuel Subsidies in Hydrocarbon-rich Countries

Yahya F Anouti

Colorado School of Mines

[View Abstract](#)

2. Comparing Consumer Preferences for Electrified Vehicles in China and the U.S.

John P Helveston

Jeremy J Michalek

Erica RH Fuchs

Carnegie Mellon University

Yimin Liu

Ford Motor Company

[View Abstract](#) | [View Poster](#)

3. Short-run Inventory-Price Dynamics in the Crude Oil Market

Xin Jin

Southern Methodist University, Dallas, TX

[View Extended Abstract](#) | [View Paper](#)

4. Fossil Fuel Taxation in the President's 2013 Budget

Andre J Barbe

Rice University

[View Extended Abstract](#) | [View Poster](#) |

[View Paper](#)

5. Estimating Price Elasticities of Supply for the U.S. Natural Gas Market

Micaela Ponce

Universität Potsdam, Germany

Anne Neumann

Universität Potsdam

[View Abstract](#) | [View Poster](#)

6. Cost Analysis of Uranium Mining in the Grants Mining District, New Mexico, 1955-1989

Benjamin A Jones

Janie M Chermak
University of New Mexico
[View Extended Abstract](#) | [View Poster](#)

7. The Effect of Weather-Related Uncertainty on the Adoption of Wind-Farm Technologies

Mutaka A Alolo
University of Hull, England
Alcino Azevedo
University of Hull
[View Extended Abstract](#) | [View Poster](#)

8. Going Green: Design Issues with Renewable Fuel Policies

Gabriel E Lade
C.-Y. Cynthia Lin
The University of California at Davis
[View Abstract](#) | [View Poster](#)

9. Integration Cost of Demand Response

Sheila Nolan
Electricity Research Centre, UCD, Ireland
[View Extended Abstract](#) | [View Poster](#) | [View Paper](#)

10. Spatial Analysis of China Provincial-Level CO2 Emission Intensity

Zhao Xueting
J. Wesley Burnett
Jerald J. Fletcher
West Virginia University
[View Extended Abstract](#) | [View Poster](#)

11. Analysis of Biofuel Production Potential, the Nigerian Case.

Ndukwe Agbai Dick
David R. Harvey
Lionel Hubbard
SAFRD, Newcastle University, England
[View Abstract](#) | [View Poster](#)

12. Effects of Government Incentives on Wind Innovation in the United States

Horner C Nathaniel
Carnegie Mellon University
[View Abstract](#) | [View Poster](#)

13. The Diverse Energy Power of Arctic States

Yijing Zhong
SAIS, Johns Hopkins University
[View Extended Abstract](#) | [View Poster](#)

STUDENT RECEPTION

8:00pm - 10:00pm • [Snow Goose](#)

Address:
717 West 3rd Avenue
Anchorage, AK

**Continue To Tuesday And
Wednesday's Program**

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CONFERENCE PROGRAM

SUNDAY 7/28 & MONDAY 7/29 | TUESDAY 7/30 & WEDNESDAY 7/31 | [PRINTABLE PROGRAM](#)

TUESDAY, JULY 30

REGISTRATION
7:00am - 6:30pm • Outside Whitby Room - Lower Lobby

ENERGY JOURNAL BOARD OF EDITORS MEETING (BY INVITATION)
7:30am - 8:30am • Club Room I - Tower 1, 10th Floor

CONTINENTAL BREAKFAST
7:30am - 8:30am • Fore Deck Room

PRESIDER'S HUDDLE
8:10am - 8:25am • Easter Island Room - Lower Lobby

CONCURRENT SESSIONS 15 - 20
8:30am - 10:00am

COFFEE BREAK
10:00am - 10:30am • Discovery Ballroom Foyer

DUAL PLENARY SESSION: UNCONVENTIONAL OIL AND GAS DEVELOPMENT
10:30am - 12:00n • Mid Deck Room

Kenneth B. Medlock III (*Co-Presiding*)
Senior Director, Center for Energy Studies, Baker Institute, Rice University

William Furlow (*Co-Presiding*)
Senior Manager Business Development and Planning, Society of Petroleum Engineers

Billy Harris
Sr. Petroleum Engineer, Wagner & Brown Ltd.

Gurcan Gulen
Senior Energy Economist, Center for Energy Economics, Bureau of Economic Geology, University of Texas

Benjamin Schlesinger
President, Benjamin Schlesinger & Assoc LLC

DUAL PLENARY SESSION: MANAGING RESOURCE WEALTH
10:30am - 12:00n • Aft Deck Room

WEDNESDAY, JULY 31

REGISTRATION
7:00am - 2:00pm • Outside Whitby Room - Lower Lobby

CONTINENTAL BREAKFAST
7:30am - 8:30am • Fore Deck Room

2014 NA CONFERENCE PLANNING MEETING
7:30am - 8:30am • Club Room I - Tower 1, 10th Floor

PRESIDER'S HUDDLE
8:10am - 8:25am • Easter Island Room - Lower Lobby

DUAL PLENARY SESSION: DEVELOPMENTS IN ELECTRICITY GENERATION AND DISTRIBUTION
8:30am - 10:00am • Mid Deck Room

Smart grids and appliances, technical and financial integration of alternative energy sources into existing power grids. Technology and regulation for isolated electricity systems.

David Newbery (*Presiding*)
President, IAEE and Director, EPRG, University of Cambridge

G. Scott Samuelsen
Professor, Advanced Power and Energy Program, University of California-Irvine

Meera Kohler
Executive Director, Alaska Village Electrical Cooperative

DUAL PLENARY SESSION: ARCTIC TRANSPORT: TECHNOLOGY AND OPPORTUNITIES
8:30am - 10:00am • Aft Deck Room

The melting sea ice in the Arctic Ocean increases the potential for marine transportation and resource development. Ice-breaking tankers, pipeline developments in the Arctic, and Arctic LNG.

SUPPORTED BY:






FOR MORE INFORMATION :

Conference Secretariat
USAEE/IAEE Headquarters
28790 Chagrin Blvd.,
Suite 350
Cleveland, OH 44122 USA
Tel: 216-464-2785
Fax: 216-464-2768

The ways that governments manage resource revenues and distribute them among citizens can affect the size and structure of regional economies and change the distribution of income and wealth.

[View Full Description](#)

Scott Goldsmith (*Presiding*)

Professor Emeritus, Economics, UAA Institute of Social and Economic Research, University of Alaska Anchorage

Rögnvaldur Hannesson

Professor, Norwegian School of Economics

Gregg Erickson

Co-Founder and Editor-at-Large, Alaska Budget Report

Melville McMillan

Professor Emeritus and Fellow of the Institute of Public Economics, University of Alberta

AWARDS LUNCH

12:00n - 2:00pm • Fore Deck Room

USAAE Senior Fellow Awards presented to Arnold B. Baker, Mark Finley and Gurcan Gulen

Mark J. Finley (*Keynote Speaker*)

General Manager, Global Energy Markets and U.S. Economics, BP
"2013 BP Statistical Review of World Energy"

CONCURRENT SESSIONS 21 - 26

2:00pm - 3:30pm

COFFEE BREAK

3:30pm - 4:00pm • Discovery Ballroom Foyer

DUAL PLENARY SESSION: PETROLEUM FISCAL REGIMES

4:00pm - 5:30pm • Mid Deck Room

There are widely different goals and strategies between sovereign jurisdictions for collecting rents from petroleum production. And there are vastly different ways government take materializes, with variations in form and timing of take, and risk-sharing for price, geology, and costs.

[View Full Description](#)

Roger Marks (*Presiding*)

Principal, Roger Marks & Associates

Marianne Kah

Chief Economist, ConocoPhillips

Irena Agalliu

Managing Director, IHS CERA

Matthew Foss

Associate Branch Head, Economics and Markets, Department of Energy, Government of Alberta

DUAL PLENARY SESSION: INDUSTRIAL ENERGY USE AND EFFICIENCY

4:00pm - 5:30pm • Aft Deck Room

Industry plays a critical role in a region's energy system and economy. Industrial production remains the main engine of

Douglas B. Reynolds (*Presiding*)

Professor of Economics, University of Alaska Fairbanks

Lawson Brigham

Distinguished Professor of Geography and Arctic Policy, University of Alaska Fairbanks

Alex Iyerusalimski

Marine Engineering Lead, ConocoPhillips

Steve Gilbert

Senior Project Manager, Alaska Village Electric Cooperative

COFFEE BREAK

10:00am - 10:30am • Discovery Ballroom Foyer

CONCURRENT SESSIONS 27 - 32

10:30am - 12:00n

CLOSING PLENARY SESSION: THE INTERCONNECTION BETWEEN INDUSTRY AND GOVERNMENT

12:00n - 1:30pm • Mid Deck Room

Incentives, subsidies, regulation, publicly utility price regulation with limited buyers and sellers. Who should be responsible for infrastructure development to support resource projects?

Shirley J. Neff (*Presiding*)

Senior Advisor to the Administration, Energy Information Administration

Branko Terzic

Executive Director, Deloitte Center for Energy Solutions

Ethan Schutt

Senior Vice-President for Land and Energy, Cook Inlet Regional, Inc.

Michael E. Canes

Distinguished Fellow, Logistics Management Institute

WORKSHOP: METHANE HYDRATES

1:30pm - 4:30pm • Fore Deck Room

Sponsored By: **Rice University's Baker Institute Center for Energy Studies**

The primary goal of the workshop is to inform engineers & energy economists, policy makers, legal practitioners, regulators and energy market analysts of some of the technical issues surrounding the development of gas resources in methane hydrates.

[Click here for more information](#)

Separate Registration Required - Register Online

Brian Anderson

NETL-RUA Faculty Fellow and GE Plastics Professor in Chemical Engineering, Statler

economic output in most regions. The industrial sector is also a large consumer of energy.

[View Full Description](#)

Leah Cuyno (*Presiding*)

Senior Economist, Northern Economics Inc

Skip A. Laitner

Principal and Independent Consultant,
Economic and Human Dimensions Research
Associates

Karen Matthias

Managing Consultant, Council of Alaska
Producers

Jeff Rickert

Deputy Director, AFL-CIO Working for America
Institute

College of Engineering and Mineral
Resources, West Virginia University

Ray Boswell

Technology Manager, Natural Gas
Technology, U.S. Department of Energy

USAAE GENERAL MEMBERSHIP MEETING

5:30pm - 6:00pm • Mid Deck Room

RECEPTION: ALASKA NATIVE HERITAGE CENTER

6:30pm - 9:30pm • ANHC

The Alaska Native Heritage Center, a
renowned cultural center and museum in
Anchorage, is an exciting place where all
people can come to expand their
understanding of Alaska's Indigenous people.

For more information, visit

<http://www.alaskanative.net/>

**Return To Sunday
And Monday's Program**

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CONCURRENT SESSIONS

Concurrent Sessions: [1-7](#) | [8-14](#) | [15-20](#) | [21-26](#) | [27-29](#)

CONCURRENT SESSIONS 1-7

Monday, July 29, 11:00 - 12:30pm

1. Shale Gas (Mid Deck Room)

Implications of Global Unconventional Gas Development – Climate Policy versus Market Effects
 Christian Panzer
 Dr., TU Vienna
[View Abstract](#)

A Retrospective Review of Shale Gas Development in the U.S.: What Led to the Boom?
 Zhongmin Wang
 Alan Krupnick
Resources for the Future
[View Extended Abstract](#) | [View Paper](#)

Shale Gas Trade and Environmental Policies: Global Economic and Environmental Analyses in a Hybrid Modeling Framework
 Farzad Taheripour
 Kemal Sarica
 Wallace E Tyner
Purdue University
[View Abstract](#)

The Shale Boom and State Level Occupational Outcomes
 Guettabi Mouhcine
Institute of Social and Economic Research
 Dan Rickman
 Abdul Munasib
Oklahoma State University
[View Abstract](#)

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FOR MORE INFORMATION :

Conference Secretariat
 USAEE/IAEE Headquarters
 28790 Chagrin Blvd.,
 Suite 350
 Cleveland, OH 44122 USA
 Tel: 216-464-2785
 Fax: 216-464-2768

2. Electricity Market Analysis and Modeling (Aft Deck Room)

British Columbia Electricity Supply Gap Strategy: A Redefinition of Self-Sufficiency
 Amy Sopinka
 Lawrence Pitt
Pacific Institute for Climate Solutions
[View Extended Abstract](#)

Directional Pricing Theory in Electricity
 Akira Maeda
University of Tokyo
 Makiko Nagaya
Showa Women's University
[View Extended Abstract](#) | [View Paper](#)

Electricity Co-operation in North America: Effect on Price

Kwanruetai Boonyasana

Miss, Rajamangala University of Technology Pranakorn

[View Extended Abstract](#)**Does Regulatory Independence Translate into a Higher Degree of Liberalization? - Evidence from EU Energy Regulators**

Henrik Lindemann

University of Hannover

[View Extended Abstract](#)**Contribution of Transmission Interconnector Expansion to Mitigate Surplus RES-Electricity Generation in Future Electricity Systems**

Karl A Zach

Hans Auer

Vienna University of Technology - Energy Economics Group (EEG)

[View Extended Abstract](#)[^ Back to top](#)**3. Renewables- Wind Energy** (Endeavor Room - Lower Lobby)**Harnessing Wind Resources to Achieve Energy Independence and Economic Development in Isolated Rural Communities: A Financial Simulation Model**

Tobias Schwörer

Institute of Social and Economic Research, UAA

Ginny Fay

[View Extended Abstract](#)**Assessment for Large-scale Integration of Wind Power Generation with High-time Resolution Optimal Power Generation Mix Model**

Ryoichi Komiyama

Yasumasa Fujii

University of Tokyo

[View Abstract](#) | [View Paper](#)**Economies of Scale, Learning Effects and Offshore Wind Development Costs**

David E Dismukes

LSU Center for Energy Studies

Gregory B Upton

LSU Department of Economics

[View Abstract](#)**Wind Turbine Upgrades in Denmark: Timing Decisions and the Impacts of Government Policies**

Jonathan A Cook

C.-Y. Cynthia Lin

University of California, Davis

[View Extended Abstract](#) | [View Paper](#)[^ Back to top](#)**4. Fuel Subsidies** (Adventure Room - Lower Lobby)**Fuel Subsidies and the Global Oil Market**

Mine Yucel

Michael Plante

Federal Reserve Bank of Dallas

Nathan Balke

Southern Methodist University

[View Abstract](#)**The Long-run Macroeconomic Impacts of Fuel Subsidies**

Michael Plante

Federal Reserve Bank of Dallas

[View Extended Abstract](#)

Regional Disparity and Chinese Fossil Energy Subsidies Reform

Li Hong

Wang Di

Peking University

Dong Liang

Nagoya University

[View Abstract](#)

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5. Energy Consumption and Economic Growth (Quadrant Room - Lower Lobby)

Population Dynamics, Economic Growth and Energy Consumption in Kenya

Nyakundi Michieka

Jerald J Fletcher

West Virginia University

[View Abstract](#)

Projecting Long-Term Primary Energy Consumption

Zsuzsanna Csereklyei

Stefan Humer

Vienna University of Economics and Business

[View Extended Abstract](#) | [View Paper](#)

Modeling & Forecasting U.S. Electricity Consumption

Mark D Hutson

Booz Allen Hamilton

Frederick Joutz

George Washington University

[View Abstract](#)

An Investigation of the Energy Consumption-Growth Nexus in the Arab Countries

Leila Dagher

Assistant Professor of Economics, American University of Beirut

[View Abstract](#)

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6. Dennis J. O'Brien USAEE/IAEE Best Student Paper Award Competition (Voyager Room - Lower Lobby)

Kenneth B. Medlock III, *Presiding*

Senior Director, CES, Baker Institute

Rice University

Migration and Fuel Mix in Rural Mexico

Dale T Manning

UC-Davis ARE

[View Abstract](#) | [View Paper](#)

Fossil Fuel Taxation in the President's 2013 Budget

Andre J Barbe

Rice University

[View Extended Abstract](#) | [View Paper](#) | [View Conference Presentation](#)

Short-run Inventory-Price Dynamics in the Crude Oil Market

Xin Jin

Southern Methodist University, Dallas, TX

[View Extended Abstract](#) | [View Conference Presentation](#)

Heterogeneous Beliefs, Regret, and Uncertainty: The Role of Speculation in Energy Price Dynamics

Marc Joets

Student, University of Paris Ouest

[View Abstract](#) | [View Paper](#)

[^ Back to top](#)

7. Transportation (Club Room 2 - Tower 1, 10th Floor)

Analysis of Alaska Transportation Sector to Assess Energy Use and Impacts of Price Shocks and Climate Change Legislation

Ginny Fay

Tobias Schwörer

Mouhcine Guettabi

Jeffrey Armagost

Institute of Social and Economic Research, University of Alaska Anchorage

[View Extended Abstract](#)

The Biofuel Decade and the Petroleum Refining Industry

Gal Hochman

Rutgers University

Ella Segev

Ben Gurion University

Geoffrey Barrow

David Zilberman

University of California Berkeley

[View Abstract](#)

Bi-Engines or Double Failures: A Study on Two Major Chinese Automobile Energy Policies

Lucy Y. Qiu

Arizona State University

Yang Shu

Huazhong University of Science and Technology

Yang Yu

Stanford University

[View Extended Abstract](#)

A Critical Evaluation of the Carbon Intensity Metric

Geoffrey M Morrison

University of California, Davis

Page G. Kyle

Pacific Northwest National Lab (PNNL)

Jacob Teter

Gouri Shankar Mishra

Jeff Kessler

Sonia Yeh

UC Davis

[View Abstract](#)

Emissions Due to Plug-in Electric Vehicle Charging in High Wind Systems

Allison Weis

Roger Lueken

Paulina Jaramillo

Jeremy Michalek

Carnegie Mellon University

[View Extended Abstract](#)

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CONCURRENT SESSIONS 8-14

Monday, July 29, 4:30 - 6:00pm

8. Evolution of Global Gas Markets (Mid Deck Room)

Strategic Capacity Investments in an Imperfectly Competitive World Natural Gas Market**Burcu Cigerli***Rice University*[View Abstract](#)

Economic and Environmental Impacts of Increased U.S. Exports of Natural Gas**Kemal Sarica****Wallace E. Tyner***Purdue University*[View Abstract](#)

The Geopolitics of Australian Natural Gas Development**Ronald D Ripple***Curtin University*[View Abstract](#)

From Shale Gas to LNG Exports: The Prospects for North American LNG Exports and the Impact on Global Gas Markets**Susan L Sakmar***University of Houston Law Center*[View Abstract](#)

Financing for Liquefied Natural Gas Export Projects**Jeannette J Lee****Larry Persily***Office of the Federal Coordinator for Alaska Natural Gas Transportation Projects*[View Extended Abstract](#) | [View Paper](#)[^ Back to top](#)**9. Power System Analysis and Modeling (Aft Deck Room)**

An Optimal Portfolio of New Power Generation Technologies: An Illustration for South Australia**Anthony D Owen****Ntasha Berry***UCL Australia*[View Abstract](#) | [View Paper](#)

Power Systems Life Cycle Analysis Tool**Thomas Drennen***Sandia National Laboratories***Joel Andruski****Ryan Williams***Hobart and William Smith Colleges***Timothy Skone****Justin Adder***National Energy Technology Lab*[View Abstract](#)

Did Geomagnetic Activity Challenge Electric Power Reliability during Solar Cycle 23? : Evidence from the Balancing Market in England and Wales**Kevin F Forbes***Catholic University of America***Chris St. Cyr***NASA*[View Extended Abstract](#)

Equilibrium Modeling of Combined Heat and Power Deployment**Anand Govindarajan****Seth Blumsack***Pennsylvania State University*[View Extended Abstract](#) | [View Paper](#)[^ Back to top](#)

10. Renewable Energy Technology (Endeavor Room - Lower Lobby)**Improved Availability of Clean Non Grid Energy in Nigeria Through the Use of Renewable Energy Sources and Energy Efficiency Principles**

Titilayo A Kuku

Professor, Obafemi Awolowo University

[View Extended Abstract](#) | [View Paper](#)**Local Employment Impacts of Competing Energy Sources: the Case of Shale Gas Production and Wind Generation**

Xinya Zhang

Peter Hartley

Kenneth B Medlock III

Ted Temzelides

Rice University

[View Extended Abstract](#) | [View Paper](#)**Warming Up to Green Missile Defense**

Arthur L Nash

UAF Cooperative Extension Service

Daisy Huang, PhD.

Alaska Center of Energy and Power

[View Extended Abstract](#)[^ Back to top](#)**11. Oil and Refined Products Markets** (Adventure Room - Lower Lobby)**Does Climate Change Mitigation Activity Affect Oil prices? Evidence From Dynamic Panel Model**

Jude C Dike

Economics Division - University of Stirling

[View Extended Abstract](#)**The Impact of the Refiners' Discount Program on the South Korean Gasoline Market**

Junjie Zhang

University of California, San Diego

Jong-Ho Kim

Pukyong National University

Dae-Wook Kim

Soongsil University

[View Extended Abstract](#)**Elasticity Indices for Economic Analysis: A Case Study for Hydrous Ethanol and Gasoline in Brazil**

Paulo Henrique M Santana

Federal University of ABC (UFABC)

[View Extended Abstract](#) | [View Paper](#)**Gasoline Prices, Vehicle Spending and National Employment**

Danilo J. Santini

Argonne National Laboratory

David A. Poyer

Morehouse College

[View Extended Abstract](#) | [View Paper](#)**Does Disagreement Among Oil Price Forecasters Reflect Future Volatility? Evidence from the ECB Surveys**

Fred L Joutz

George Washington University

Tarek Atallah

Axel Pierru

KAPSARC

[View Abstract](#)[^ Back to top](#)

12. Geopolitics and Energy Security (Quadrant Room - Lower Lobby)

World Oil Production Trend: How U.S. Shale Oil Production Changes the World Trend

Douglas B Reynolds

Candace Crews

University of Alaska Fairbanks

[View Abstract](#) | [View Paper](#)

Transition in World Oil Market and its Effect on Saudi Arabia.

Nourah A AlYousef

King Saud University

[View Extended Abstract](#)

The Value of Strategic Oil Stocks Under Reduced U.S. Oil Imports

Paul N. Leiby

Gbadebo Oladosu

Rocio Uria-Martinez

Oak Ridge National Laboratory

David C. Bowman

Econotech LLC

Kenneth R. Vincent

U.S. Department of Energy

[View Abstract](#)[^ Back to top](#)**13. USAEE Case Competition - Topic: Integrating Electric Vehicles into Distribution Grids**

(Voyager Room - Lower Lobby)

Eric Hittinger, *Presiding*

Assistant Professor

Rochester Institute of Technology

Team #1 - Case Competition

Jonathan Cook

Geoff Morrison

Gabriel Lade

Jeff Kessler

University of California, Davis

Team #2 - Case Competition

Michael Davidson

Michael Craig

Daniel Frederick Cross-Call

Ashwini Bharatkumar

Massachusetts Institute of Technology

Team #3 - Case Competition

Nathaniel Horner

Parth Vaishnav

Carnegie Mellon University

[^ Back to top](#)**14. Coal & Nuclear** (Club Room 2 - Tower 1, 10th Floor)

Forecasting Coal Production and Volatility in China's Coal Producing Regions

Nyakundi Michieka

Jerald J Fletcher

West Virginia University

[View Extended Abstract](#)

Measuring the Impacts of Nuclear Accidents on Energy Policy

Zsuzsanna Csereklyei

Vienna University of Economics and Business

[View Extended Abstract](#) | [View Paper](#)

Coal Plants' Response to Renewable Portfolio Standards

Suman Gautam

R J Briggs

Pennsylvania State University

[View Extended Abstract](#)

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CONCURRENT SESSIONS 15-20

Tuesday, July 30, 8:30 - 10:00am

15. Natural Gas Issues (Mid Deck Room)

Australian Natural Gas Developments in a Global Context

Peter R Hartley

Professor, Rice University

[View Abstract](#)

North American Natural Gas Demand Pathways

Peter H. Howard

Zoey Walden

Canadian Energy Research Institute

Kevin Petak

ICF International

[View Extended Abstract](#) | [View Paper](#)

Modeling the North American Market for Natural Gas Liquids

Robert E Brooks

President, RBAC, Inc.

[View Extended Abstract](#) | [View Paper](#)

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16. Economic Analysis of Renewable Energy (Aft Deck Room)

An Analysis of the Effects of Government Subsidies on the Fuel Ethanol Industry: A Structural Econometric Model

C.-Y. Cynthia Lin

Karen Thome

University of California at Davis

Fujin Yi

Nanjing Agricultural University

[View Abstract](#)

An Intertemporal Theory of Renewable Energy Development

Darko Jus

Center for Economic Studies, University of Munich

[View Abstract](#)

Optimization of Cost and Greenhouse Gas Emissions of a Dedicated Energy Crop Supply System to Biorefineries in Tennessee

Zidong Wang

T. Edward Yu

Burton C. English

James A. Larson

University of Tennessee

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Tanana River School Districts- Converting Wood into Educational Dollars and Economic Development

Daisy Huang

Alaska Center for Energy and Power
 Arthur Nash
 UAF Cooperative Extension Service
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17. Oil and Gas Fiscal Regimes (Endeavor Room - Lower Lobby)

Alaska Natural Gas Exports: Fiscal Stability Versus The State's Constitution

Douglas B Reynolds
 Candace Crews
 University of Alaska Fairbanks
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The Effects of Oil and Gas Fiscal Regimes on Exploration and Production Decisions

Timothy Fitzgerald
 Montana State University
 Andrew Stocking
 Congressional Budget Office
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Evolution of Alaska's State Petroleum Fiscal Regime: From Arctic Frontier to Maturity

Matthew Berman
 Institute of Social and Economic Research, University of Alaska Anchorage
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18. Energy Policy (Adventure Room - Lower Lobby)

Towards A Sustainable Environmental and Energy Policy in the GCC Region: Energy Efficiency or Fuel Mix? A Heterogeneous Panel Approach

Amany A El Anshasy
 United Arab Emirates University
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Modeling the Impacts of State Energy Policies

Barry M Rubin
 Sanya Carley
 David Warren
 Zachary Wendling
 Indiana University
 Kenneth Richards
 National University of Singapore
[View Extended Abstract](#)

Energy Poverty in Japan: How Does the Energy Price Escalation Affect Low Income and Vulnerable Households?

Shinichiro Okushima
 University of Tsukuba
 Azusa Okagawa
 National Institute for Environmental Studies
[View Extended Abstract](#) | [View Paper](#)

Prices vs. Quantities: Comparing State Policies for Reducing Energy Costs

Sue Libenson
 Libenson Consulting
[View Extended Abstract](#) | [View Paper](#)

Matching a State's Renewable Energy Incentives With the Risk/Return Profile of the Renewable Energy Investor

Martha J Goodell
 Nelson Institute
[View Extended Abstract](#)

[^ Back to top](#)**19. Energy Modeling and Analysis** (Quadrant Room - Lower Lobby)**The Alaska Village Energy Model: An Integrated Community Energy Planning Tool**

Steve Colt

Tobias Schwoerer

University of Alaska

[View Extended Abstract](#)**Voluntary Green Building Certification: Economic Decision or Following the Trend? A Spatial Approach**

Lucy Y. Qiu

Ashutosh Tiwari

Arizona State University

[View Extended Abstract](#)**An Introduction of the BET Model –An Integrated Assessment Model Including End-Use Technologies**

Hiromi Yamamoto

Masahiro Sugiyama

Junichi Tsutsui

Central Research Institute of Electric Power Industry

[View Extended Abstract](#)**Development of a Structured Decision Making Framework for Energy Infrastructure Siting**

Ganesh H. D. Doluweerawatta

Joule A Bergerson

University of Calgary

[View Abstract](#)**Implications of Wider Availability of Unconventional Gas on China Energy System Under Climate Constraint Scenarios**

Gabrial Anandarajah

Sr Research Associate, UCL Energy Institute

[View Abstract](#)[^ Back to top](#)**20. The ABCs of Energy Policy: An Interactive Tutorial** (Voyager Room - Lower Lobby)Lori Smith Schell, *Presenter*

President

Empowered Energy

Conference delegates who are relatively new to energy will benefit from this interactive tutorial providing an alphabetical introduction to many issues that impact or are impacted by energy policy. Questions will be answered as they arise to maximize delegate participation and the knowledge gained from the tutorial.

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CONCURRENT SESSIONS 21-26

Tuesday, July 30, 2:00 - 3:30pm

21. Carbon Capture and Storage (Mid Deck Room)**Modeling the Future Costs of Carbon Capture Using Experts' Elicited Probabilities Under Policy Scenarios**

Gregory F Nemet

University of Wisconsin, Madison

Karen Jenni

Insight Decisions

Erin Baker

University of Massachusetts, Amherst

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Parametric Analysis of Technology and Systems Tradeoffs for CO2 Storage in Saline Formations

Peter H. Kobos

Geoff T. Klise

Jesse D. Roach

Jason E. Heath

Sandia National Laboratories

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Contracting Risks and Design of Optimal Incentives in Large Energy Infrastructure Projects

Anna Agarwal

Massachusetts Institute of Technology

[View Extended Abstract](#)

Sequestration of Industrial Carbon in Shales

Seth Blumsack

Farid Tayari

R.J. Briggs

Penn State University

[View Extended Abstract](#)

Flexible CCS and the Transition to Low Carbon Power

David Luke L Oates

Paulina Jaramillo

Carnegie Mellon University

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22. Wind Energy and Storage (Aft Deck Room)

The Integration Costs of Large-scale Wind Power

Roger Lueken

Jared Moore

Jay Apt

Carnegie Mellon University

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The Paradox of "Renewable Energy Storage" for Wind Power: Economics and Emissions

Eric Hittinger

Rochester Institute of Technology

Inês L Azevedo

Carnegie Mellon University

[View Abstract](#)

Energy Storage Technology Options for Distribution Networks - More Than Just the Economic Cost

Craig W Froome

Liam Wagner

John Foster

The University of Queensland

[View Abstract](#)

Integrating Wind Resources: Siting Decisions in the Midwest

Julian Lamy

Carnegie Mellon University

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23. Renewable Energy Policy (Endeavor Room - Lower Lobby)

Renewable Energy Technology Policy: An Evaluation of Global Policy Drivers

Sanya Carley
 Jennifer N Brass
 Lauren M MacLean
 Elizabeth Baldwin
Indiana University
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The Effect of Renewable Portfolio Standards on Fossil Fuel Choices in Electricity Generation

Stratford M Douglas
 Eric Bowen
West Virginia University
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Changes in Renewable Energy Demand: A Look at the Renewable Energy Demand Portfolio

Melissa Lynes
Kansas State University
[View Extended Abstract](#) | [View Paper](#)

Renewable Portfolio Standard and State-Level Renewables Innovation in the United States

Yuxi Meng
 Yuxi Meng
The Pennsylvania State University
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24. Effects of Energy Taxes (Adventure Room - Lower Lobby)**How Will the Adoption of Electric Vehicles Affect Transportation Funding Deficits in the United States?**

Alan Jenn
Carnegie Mellon University
[View Extended Abstract](#)

Analysis of the Impacts of CO2 Capture and Shale Gas Supply under a CO2 Tax Scenario

Christopher J Nichols
 Peter Balash
US DOE NETL
 Nadja Victor
NETL BAH
[View Abstract](#)

Effectiveness of Gasoline Taxes in Europe

Julian Dieler
 Markus Zimmer
ifo Institut for Economic Research at the University of Munich
 Darko Jus
Center for Economic Studies at the University of Munich
[View Abstract](#)

The Effects of the CO2 Tax on Gasoline Demand in British Columbia

Jean-Thomas Bernard
University of Ottawa
 Grant Guenther
Transport Canada, Government of Canada
[View Abstract](#)

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25. Environmental Regulation (Quadrant Room - Lower Lobby)**Integrated Assessment of Energy Related SO2 Emissions Control in China's 12th Five-Year Plan**

Xuanming Su
 Kiyoshi Takahashi

National Institute for Environmental Studies
 Weisheng Zhou
 College of Policy Science, Ritsumeikan University
[View Extended Abstract](#)

Replacement of Natural Gas Residential Consumption by Electricity so as to Solve Argentine Natural Gas Crisis and Reduce Greenhouse Gases Emissions

Martin Gesualdi
 Tecnolatina S.A.
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Greenhouse Gas Emission Reductions Through National Ambient Air Quality Standards: The Role of Regional Low Carbon Fuel Standards

Jeff Kessler
 UC Davis
 Benjamin VanGessel
 University of Michigan
[View Extended Abstract](#) | [View Paper](#)

Welfare Decomposition of a Clean Technology Standard

Anthony Paul
 Karen Palmer
 Matt Woerman
 RFF
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26. Energy Efficiency and Green Building (Voyager Room - Lower Lobby)

The Effectiveness of Building Energy Codes in the Commercial Sector

Zach Wendling
 School of Public and Environmental Affairs, Indiana University
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The Impact of the Energy Star Label on Consumer Decision-Making

Anshuman Sahoo
 Nik Sawe
 Stanford University
[View Extended Abstract](#)

The Many Attributes of Residential Energy Efficiency Improvements: The Distribution of Which Matter Most Across Households

Paul Thorsnes
 Auren Clarke
 University of Otago
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Role of Residential and Commercial Sectors in Meeting California's 80 Percent GHG Emissions Reduction Goal by 2050

Mohammdsaleh Zakerinia
 Sonia Yeh
 Yang Christopher
 Institute of Transportation Studies, University of California at Davis
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CONCURRENT SESSIONS 27-29

Wednesday, July 31, 10:30 - 12:00n

27. Electricity Sector- Emerging Technologies and Investment (Mid Deck Room)

Impact of State Policy on Diffusion of Solar PV in the U.S.: An Empirical Analysis

Gireesh Shrimali

MIIS

Steffen Jenner

Federal Ministry of the Environment

[View Extended Abstract](#) | [View Paper](#)**GIS-Integrated Agent-Based Modeling of Residential Solar PV Diffusion**

Varun Rai

Scott A Robinson

Matthew Stringer

Abhishek Tondon

The University of Texas at Austin

[View Extended Abstract](#) | [View Paper](#)**From Smart Technology to Smart Consumers: For a Better System Reliability and Improved Markets' Efficiency.**

Claire Bergaentzle

PhD., Grenoble Alpes, CNRS, EDDEN-PACTE

[View Abstract](#) | [View Paper](#)**Cost Effectiveness and Market Effects of Carbon Abatement Policies in the Electricity Sector**

Jared Moore

Jay Apt

Carnegie Mellon University

[View Extended Abstract](#)[^ Back to top](#)**28. Energy Markets and the Economy** (Adventure Room - Lower Lobby)**How Does Energy Efficiency Affect the Growth in the Real Sector? Evidence From Ukrainian Regions**

Borys Dodonov

Bureau of Economic and Social Technologies

[View Extended Abstract](#)**Nonlinear Structure in Time Series of the Energy Markets**

Hajar Aghababa

The University of Kansas

[View Extended Abstract](#) | [View Paper](#)**The Switching Relationship Between Natural Gas and Oil Prices**

Matthew Brigida

Associate Professor of Finance, Clarion University of Pennsylvania

[View Abstract](#) | [View Paper](#)[^ Back to top](#)**29. Energy Intensity/Carbon Intensity** (Endeavor Room - Lower Lobby)**Club Convergence and Clustering of U.S. State-Level CO2 Emissions**

Wesley Burnett

West Virginia University

[View Extended Abstract](#)**Economic Implications of Moving Toward Global Convergence on Emission Intensities**

Govinda R Timilsina

Sr. Economist, The World Bank

[View Abstract](#)**Sailing Ship/ Last Gasp Effects, Low Carbon Technologies And High Carbon Incumbents**

Peter J G Pearson

Low Carbon Research Institute, Cardiff University

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Industry Meets Government: IMPACT ON ENERGY USE & DEVELOPMENT

CONFERENCE REGISTRATION FORM

REGISTRATION FEES

are payable in advance. Complete the form below and submit electronically or mail by post to USAEE Conference Headquarters along with your payment. Conference registration fees may be paid by check (payable to "USAEE" in U.S. dollars and drawn on a U.S. bank), credit card or wire transfer. For wire transfer information e-mail usaee@usaee.org. Hotel and related travel costs are not included in registration fees. Full registration fees include: registration materials, a copy of the online conference proceedings and all conference provided meal functions. Students: submit a letter stating that you are a full-time student and are not employed full-time. The letter should provide the name and contact information for your main faculty supervisor or your department chair and a copy of your student identification card. USAEE reserves the right to verify student status. See the conference website for tour information.

TYPE OF REGISTRATION (check which applies)

	Received on or Before May 31, 2013	Received on or Before June 9, 2013	Received June 10, 2013 to July 24, 2013	Received After July 24, 2013 (Onsite Fee)
☐ Speaker Member (Payment must be received by May 31, 2013)	\$550.00	\$650.00	\$750.00	\$850.00
☐ Speaker Non-member (Includes membership. Payment must be received by May 31, 2013)	\$750.00	\$850.00	\$950.00	\$1050.00
☐ USAEE/IAEE Members		\$700.00	\$800.00	\$900.00
☐ Non-Members (includes membership)		\$850.00	\$950.00	\$1050.00
☐ Full-time Students - member IAEE/USAEE		\$350.00	\$400.00	\$450.00
☐ Full-time Students - nonmember		\$400.00	\$450.00	\$500.00
☐ Guests (meal/social functions only; no meeting sessions)		\$350.00	\$400.00	\$450.00
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☐ General Conference Company Sponsorship		\$500.00	\$500.00	\$500.00
☐ General Conference Individual Sponsorship; >\$100 and <\$499 (write in amount)				
☐ Student Support Fund Contribution		\$100.00	\$100.00	\$100.00
☐ Tuesday Reception at Alaska Native Heritage Center		Complimentary		
☐ Kuparuk Oil Field Tour Number attending _____ DOB _____		\$800.00 each		
☐ Trans Alaska Pipeline (single occupancy) Number attending _____ DOB _____		\$425.00 each		
☐ Trans Alaska Pipeline (double occupancy) Number attending _____ DOB _____		\$350.00 each		
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- ☐ Check (Check payable to USAEE in U.S. dollars and drawn on a U.S. bank)
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Name _____
First/Given Name for Badge _____ Last Name/Surname _____

Business Title: _____

Company/Organization: _____

Address: _____

City/State/Country: _____ Zip/Postal Code: _____

Telephone: _____ Fax: _____

E-mail: _____

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PLEASE SEND PAYMENT TO:

USAEE Conference Headquarters
28790 Chagrin Blvd., Ste. 350
Cleveland, OH 44122 USA
Phone: 216-464-2785 | Fax: 216-464-2768
E-mail: usaee@usaee.org

CANCELLATIONS/SUBSTITUTIONS

All requests for cancellations or substitutions in regard to conference registration must be received in writing at USAEE Headquarters. Cancellations are allowed if requests are received on or before June 23, 2013 (five weeks before conferences sessions begin), but each is subject to a non-refundable \$200.00 administrative fee. Requests for cancellations received after June 23, 2013 will not be honored; and in such cases no refund can be made from the original registration fee, nor is any refund allowed for no-shows. There are no exceptions to this policy. Should you be unable to attend, however, a substitution may be made to transfer your fully paid registration to another member of your organization at any time up to July 28, 2013.

At what hotel will you be staying? (check one)

- ☐ Captain Cook Hotel
- ☐ Other: _____
- ☐ Check here if you have a disability or special need and may require accommodation to fully participate.

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IMPACT ON ENERGY USE & DEVELOPMENT

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Sponsorship is key to the success of the 32nd USAEE/IAEE North American Conference. Below are sponsorship options to choose from, as well as a listing of benefits and recognition. Organizations may co-sponsor events; equal credit is given to the involved organizations. **Please mark your chosen option(s)** and indicate a prepayment, billing or co-sponsorship option. Thank you for your support in assuring the success of this important meeting.

PREMIUM SPONSORSHIP OFFERINGS	☐ Platinum	☐ Gold	☐ Silver
	\$10,000	\$7,500	\$5,000
Complimentary registrations to be used at your discretion	3	2	1
Placement of your promotional materials in all conference delegate packets	✓	✓	✓
Company logo with link to your website placed on the conference website	✓	✓	✓
Several verbal announcements by conference representatives at the meeting	✓	✓	✓
Placement of company logo on printed program handed out at conference	✓	✓	✓
One reserved exhibit table top space to display your products/services	✓	✓	
Placement of your promotional materials at all coffee breaks	✓		

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☐ Luncheon / Dinner Sponsorship – \$10,000 (3 events at conference)

- Three (3) complimentary registrations to be used at your discretion
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- A sign listing your company as a lunch/dinner sponsor
- Several verbal announcements by conference representatives at the meeting
- Placement of company logo on printed program handed out at conference

☐ Reception Sponsorship – \$7,500 (2 events at the conference)

- Two (2) complimentary registrations to be used at your discretion
- Placement of your promotional materials in all conference delegate packets
- Company logo with link to your website placed on the conference website
- A sign listing your company as a reception sponsor
- Opportunity to invite up to 4 guests not attending the conference to attend/network at the reception
- Several verbal announcements by conference representatives at the meeting
- Placement of company logo on printed program handed out at conference

☐ Breakfast Sponsorship – \$6,000 (3 events at conference)

- Two (2) complimentary registrations to be used at your discretion
- Placement of your promotional materials in all conference delegate packets
- Company logo with link to your website placed on the conference website
- A sign listing your company as a breakfast sponsor
- Several verbal announcements by conference representatives at the meeting
- Placement of company logo on printed program handed out at conference

☐ Coffee Break Sponsorship – \$3,500 (5 events at conference)

- Placement of your promotional materials in all conference delegate packets
- Company logo with link to your website placed on the conference website
- A sign listing your company as the coffee break sponsor
- Several verbal announcements by conference representatives at the meeting
- Placement of company logo on printed program handed out at conference

☐ Student Breakfast Sponsorship – \$3,500 (1 event at conference)

- Participation of up to three Company representatives in the Student Breakfast
- Company logo with link to your website placed on the conference website
- A sign listing your company as the student breakfast sponsor
- Several verbal announcements by conference representatives at the meeting
- Placement of company logo on printed program handed out at conference

☐ Council Lunch Sponsorship – \$1,500 (1 event at conference)

- Company logo with link to your website placed on the conference website
- A sign listing your company as the Council lunch sponsor
- Several verbal announcements by conference representatives at the meeting
- Placement of company logo on printed program handed out at conference

☐ Placement of Promotional Materials in Delegate Packets – \$1,000

- Placement of your promotional materials in all conference delegate packets
- Participants will be notified approximately one month prior to meeting as to when/where to send your materials

☐ General Company Conference Sponsorship – \$500 or greater (unlimited)

- Company logo with link to your website placed on the conference website
- Several verbal announcements by conference representatives at the meeting
- Placement of company logo on printed program handed out at conference

☐ General Individual Conference Sponsorship – >\$100 and <\$499

- Individual name to appear in final printed program
- Stand-up recognition given at conference