

2011 AIChE Northeast Regional Conference at the CHEM SHOW

AIChE's Conference on Energy, Safety and Consulting, organized by the Northeast Sections of AIChE – as of October 14, 2011

We are pleased to present a Topical Conference assembled by a number of the local sections of AIChE in the northeast, covering the subjects of Energy Consumption and Conservation, Consultants, and Process Plant Safety. The conference will consist of five 3-hour sessions, offered from Tuesday morning through Thursday morning. A modest fee for admission for the entire conference will allow you to attend as many of the five sessions that are of interest to you. A one-day admission is also available. A break between morning and afternoon sessions will allow everyone to visit the Exhibit hall and see equipment, products and services that will help you implement what you've learned.

tuesday NOVEMBER 1

8:30am – 11:30am session

ENERGY SUPPLY/DEMAND TODAY AND TOMORROW; IMPACT OF ALTERNATIVE ENERGY SOURCES

This session is intended to present the most recent supply/demand figures for energy forms in the US, followed by projections by one or more companies and/or the EIA on future supply and demand and the impact of the various alternative and renewable energy resources. The history of petroleum, natural gas and other energy prices will be discussed and guidance as to likely future energy prices will be provided to aid producers on planning for energy conservation in their plants.

Speakers:

Dr. John C. Chen, Lehigh University, "Energy for the World: Today and Tomorrow"

Peter B. Smith, Solar Dad and Sons, "Solar Energy, a potentially disruptive technology"

Robert Misback, AltairNano, "Energy Storage"

Yujia Liu, Stevens Tech., "Synthesis gas production by autothermal reforming of glycerol via monolith catalysts."

Dr Moimuddin Sarker, Natural State Research, Inc., "Liquid Hydrogen Fuel Energy Generation from Municipal Solid Waste Plastic by using Thermal Cracking Process"

1:00pm – 4:00pm session

ENERGY SAVINGS TECHNOLOGIES AND CONCEPTS FOR TODAY'S PLANTS

This session will present case studies on energy saving technologies and concepts that have been implemented in operating plants, particularly in the northeast. Novel energy conservation concepts that are nearing or ready for implementation will also be discussed. Also included will be updates on full scale projects that are transitioning us along a path toward a sustainable economy. These may include recycling critical materials, renewable energy, and transitional fuels such as clean coal technologies, synfuels, and compressed natural gas fueling of vehicle fleets.

Speakers: Richard Dovey, Atlantic County, Utilities Authority, "CNG in Fleet Vehicles"

Tom Kavookjian, Prodex Products, "Boosting Biogas Output with Biological Activity Enhancer"

Wolf Koch, Swapsol Corporation, "The SWAP: A breakthrough in hydrogen sulfide processing"

Jason Gold, KGRA Energy Corporation, "Energy Savings and Clean Power Generation from Industrial Waste Heat Recovery: Successful Case Studies"

wednesday NOVEMBER 2

8:30am – 11:30am sessions

BECOMING A CONSULTANT

This session is directed to the mid- or late-career engineer or chemist who is considering the possibility of becoming a consultant. Three broad topics will be addressed, including: Ways to help develop a realistic assessment of what you specifically have to offer and whether or not a consultant's life is likely to match your psychological, family and financial needs. This will be followed by an in-depth discussion of potential markets and ways to approach them. Finally, the mechanics of a consulting practice will be covered including various types of agreements with clients and with potential partners, ownership of intellectual property, insurance and professional licenses, as well as the pros and cons of various fee arrangements.

Speakers:

Terry Suffredini Atkinson, P.E., "So You Want to become a Consultant – What it Takes"

Barry Schindler, Esq., "Becoming a Consultant – Input from an Attorney"

Mark Halpern, Ph.D., "Seven Highly Effective marketing Techniques for Chemical/Chemical Engineering Consultants"

1:00pm – 4:00pm sessions

USING A CONSULTANT

This session is directed to those who foresee using a Consultant but have never or rarely done so. Topics covered will include defining the need to be met and preparing an appropriate Scope-of-Work. This will be followed by a discussion of how to locate, interview and select the individual or company that is most likely to meet the needs. Finally matters related to conflict-of-interest, non-disclosure agreements, errors and omissions, and intellectual property will be presented.

Speakers:

David R. Eckhardt, P.E., FAIChE, "Selecting and Retaining the Right Consultant"

Richard R. Beauregard, CHMM, "Effectively Using the Right Consultant"

Barry Schindler, Esq., "Using a Consultant – Input from an Attorney"

thursday NOVEMBER 3

8:30am – 11:30am sessions

PROCESS SAFETY MANAGEMENT (PSM) COMPLIANCE

This session will include presentations by a number of plant safety organizations, perhaps including the Chemical Safety Board (CSB). Case histories of accidents, their causes, their loss of property and life will be presented, including actions that should be taken to prevent similar future occurrences. An important focus of this session will be on those operating plants in the northeast US that are too small or too resource-restricted to be able to afford appropriate in-house safety and accident prevention expertise.

Speakers:

Uday Nadgir, Firmenich, "Part I – Basic Requirements of the PSM Standard"

Timothy J. Myers, Exponent, Inc., "How a Small Company Responded to Incidents and Made a Reactive Chemical System Inherently Safer"

George B. Stanton, Jr., American Hazard Control Consultants Inc., "Part II – Implementation of PSM"

Nancy C. Easterbrook, Paul J. Yanisko, Daniel M. Ray, and William Carlson, Air Products and Chemicals, Inc., "Best Practices in Nitrogen Blanketing for Safety and Quality"