

FALL 2014 CLEAN ENERGY

Energy Exchange is a seminar series hosted by the EMS Energy Institute as part of its outreach mission. The seminars focus on highly relevant energy topics especially in the area of fossil fuels. Energy topics discussed include new innovations in carbon dioxide utilization, clean coal, petroleum and natural gas, fuel cells, and more. Speakers include Penn State faculty as well as government and industry professionals.

The seminars are held every other Wednesday in C213 Coal Utilization Laboratory from 10 am to 11 am. Please join us a half hour before the lecture for refreshments. Seminars are open to everyone.

For more information about individual presentations and speakers, visit our website, www.energy.psu.edu/energyoutreach/energyXchange.

Follow us on Twitter @PennStateEnergy

Organizing Committee

Bruce Miller

Associate Director, EMS Energy Institute

Shea Winton

Communications Specialist, EMS Energy Institute

David Johnson

Research Assistant, EMS Energy Institute

Tom Richard

Director, The Penn State Institutes of Energy & the Environment

Daniel Haworth

Director, Center for Combustion, Power, & Propulsion

Wednesdays 10 - 11 am • Refreshments 9:30 - 10:00 am

C213 Coal Utilization Laboratory • EMS Energy Institute

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| September 10 | Terry Engelder
<i>Geosciences, Penn State</i>
Natural fractures in gas shale: What causes them? |
| September 24 | George Guthrie
<i>Department of Energy, NETL</i>
Predicting the Behavior of CO ₂ Storage Reservoirs: Informing Early Decisions That Rely on Uncertain Natural Systems |
| October 22 | Harold Schobert
<i>Penn State Professor Emeritus/Schobert International</i>
Coal To Liquids: Can It Be Clean Energy? |
| Friday
November 7 | Deborah Adams
<i>International Energy Association Clean Coal Centre</i>
Energy Policy in the European Union (Focus on Coal and Biomass) |
| November 12 | Monty Alger
<i>Institute for Natural Gas Research at Penn State</i>
Overview of the Institute for Natural Gas Research at Penn State/Interacting with Industry |
| November 19 | Brittany Thomas
<i>Cabot Oil & Gas Corporation</i>
Utilization and Benefits of CNG and Field Gas in Operations |
| December 3 | Timothy Johnson
<i>Corning, Inc</i>
Emerging Trends on Vehicle Emissions and Efficiency |



This seminar series is co-sponsored by: