

SPRING 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.

Organizing Committee

Bruce Miller

Associate Director, EMS Energy Institute

Shea Winton

Communications Specialist, EMS Energy Institute

David Johnson

Research Assistant, EMS Energy Institute

Ali Demirci

Professor, Agricultural and Biological Engineering

Tom Richard

Director, The Penn State Institutes of Energy & the Environment

Robert Santoro

Emeritus Professor, College of Engineering

This seminar series is co-sponsored by:

Wednesdays 10 - 11 am • Refreshments 9:30 - 10:00 am
C213 Coal Utilization Laboratory • EMS Energy Institute

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|--------------------|---|
| January 22 | Turgay Ertekin
<i>Professor, Petroleum and Natural Gas Engineering</i>
Redesigning Coalbed Methane Reservoir Engineering: A Reflective Analysis |
| February 5 | Joe Hirschi
<i>Project Manager, Illinois Clean Coal Institute</i>
The Role of Research in the Coal Mining Industry: Reflecting Back and Looking Ahead |
| February 19 | David Yoxtheimer
<i>Penn State Marcellus Center for Outreach & Research</i>
Water Resource Management for Shale Energy Development |
| March 5 | Michael T. Palko
<i>Biomass Energy Specialist, PA Bureau of Forestry</i>
Advancing Sustainable Wood Energy in Pennsylvania |
| March 19 | Tom Litzinger
<i>Professor, Mechanical Engineering</i>
Effects of Alternative Fuel on Emissions from Gas Turbine Engines |
| April 2 | Shannon Angielski
<i>Associate Director, Coal Utilization Research Council</i>
Impact of Proposed Federal Policies on Coal Use and Coal Technology Development in the U.S. |
| April 16 | Rick Kerr
<i>Chief Engineer, Solid Oxide Fuel Cells, Delphi Automotive</i>
Solid Oxide Fuel Cell Development and Application |
| April 30 | L.-S. Fan
<i>Distinguished Professor, The Ohio State University</i>
Chemical Looping Technology – Perspective and Prospect in Carbon Management |

