Energy, Economic Prosperity
& the Environment -
Mutually Compatible Priorities
for our Nation

THURSDAY, MARCH 26, 2015
NATIONAL WEATHER CENTER
THE UNIVERSITY OF OKLAHOMA
120 David L. Boren Blvd.
Norman, Okla.
The Energy Institute helps to advance innovative and sustainable solutions to the critical energy challenges facing the global community through RESEARCH, EDUCATION AND OUTREACH

EMBA IN ENERGY

ENERGY EXECUTIVE MANAGEMENT PROGRAM

MBA PROGRAM ENERGY SPECIALIZATION

ROBERT M. ZINKE ENERGY MANAGEMENT PROGRAM

PRICE.OU.EDU/ENERGY
Dear Participants,

As the program co-chair, I personally welcome each of you to the third annual University of Oklahoma Energy Symposium, organized by the Energy Institute at the Price College of Business. The Institute was established to fulfill the growing need to bring together the technical, business, economic and geopolitical aspects of energy. It is dedicated to fostering industry and policy-relevant research and dialogue on cutting-edge challenges at the interface of business and energy, and seeks to create a community of academics and practitioners. For more information about the institute, please visit price.ou.edu/energyinstitute.

This year’s symposium will focus on the ways good science, technology and balanced, pragmatic policy can help our country derive the best long-term benefits for our emerging energy abundance while achieving real, sustainable progress in areas of environmental concern. Too often in the past decade, as the reality of America’s hydrocarbon energy renaissance has begun to define our potential for long-term energy security and resulting economic growth and prosperity, as well as our positive geopolitical positioning, we have seen an increasing polarization of thought and political discussion relating to the benefits of domestic hydrocarbon energy development versus the best stewardship of our environment. The Energy Institute of the University of Oklahoma’s Price College of Business believes that the two are not mutually exclusive. The symposium planning committee has worked hard to make this conference an enjoyable and informative experience. With your participation, we can make this symposium one of the best the energy community has to offer.

Thank you for participating in this year’s symposium. I hope you enjoy the program as we continue our efforts in providing the most relevant and insightful thought-leaders to future energy events.

Best wishes,

Dr. Dipankar Ghosh
David C. Steed Professor of Accounting
Executive Director, Energy Institute
Price College of Business, The University of Oklahoma
OU Academic Experts Panel Discussion

Randy Brogdon, Moderator
Partner, Troutman Sanders LLP

- Ron Bolen – Price College of Business, University of Oklahoma
  Assistant Professor, Entrepreneurship / Executive Director, Sooner Launch Pad
- Harold Brooks – National Severe Storms Laboratory
  Senior Scientist, Forecast Research and Development Division
- Hank Jenkins-Smith – Department of Political Science, University of Oklahoma
  Professor, Political Science / Associate Director, Center for Applied Social Research
- Susan Postawko – School of Meteorology, University of Oklahoma
  Associate Professor of Meteorology
- Jim Sluss – College of Engineering, University of Oklahoma
  Senior Associate Dean, Pitman Professor

Industry Experts Panel Discussion

Randy Brogdon, Moderator
Partner, Troutman Sanders LLP

- Mark Boling – Southwestern Energy
  President of V+ Development Solutions, General Counsel & Secretary
- Kristi Desjarlais – Saxum
  Senior Vice President and General Manager
- Rayola Dougher – American Petroleum Institute
  Senior Economic Advisor
- Andy Weissman – EBW Analytics Group
  Founder

Luncheon/Keynote Speaker

Bill Colton, ExxonMobil
Vice President of Corporate Strategic Planning
**Panelists**

**Ron Bolen** serves as Assistant Professor of Entrepreneurship at the OU Price College of Business and Managing Director of da3co. Bolen has over 20 years of experience in launching, financing and advising new ventures. He has over 10 years direct experience in private equity investing in the same space. His work in energy private equity includes both the power and oil and gas segments.

He has served the sector as both an investment banker and lawyer. Bolen holds a BBA in finance as well as a J.D. from The University of Oklahoma. He also received a MBA with majors in both finance and taxation from New York University. He currently serves on numerous boards including the Board of Advisors of the OU Price College of Business and the Rice Alliance Energy & Clean Technology Venture Forum.

**Harold Brooks** is a Senior Research Scientist at the National Severe Storms Laboratory (NSSL) in Norman, Okla. His undergraduate degree is from William Jewell College, with a year at the University of Cambridge. He has a M.A. and M. Phil. from Columbia University and a Ph.D. from the University of Illinois in atmospheric sciences.

During his career, his work has focused on why, when, and where severe thunderstorms occur and what their effects are, and on how to evaluate weather forecasts. Brooks has been the recipient of numerous awards including the honor of being named a Fellow of the American Meteorological Society in 2011.
Hank Jenkins-Smith earned his Ph.D. in political science and public policy from the University of Rochester (1985). He has been employed as a policy analyst in the DOE Office of Policy Analysis (1982-83), and previously served on the faculty of Southern Methodist University, the University of New Mexico, and Texas A&M University. He is currently a George Lynn Cross Research Professor in the Political Science Department at OU, and the Director of the Center for Energy and Society.

Jenkins-Smith has published books, articles and reports on public policy processes, risk perception, national security, weather, and energy and environmental policy. He is currently a member on the National Council on Radiation Protection and Measurement and the American Political Science Association.

His current research focuses on theories of the public policy process, with particular emphasis on the management (and mismanagement) of controversial technical issues involving high risk perceptions on the part of the public.

Susan Postawko received her Bachelor of Science degree in physics and astronomy, then went on to the University of Michigan for her Ph.D. in atmospheric science. After spending eight years in the Planetary Geosciences Division of the University of Hawaii Institute of Geology and Planetary Sciences, she came to OU’s School of Meteorology in 1991. Postawko’s interests and fields of study include climate change on Earth and other planets (including past and future climate change) as well as the relationships between climate change and renewable energy. She works closely with various Pacific Island Meteorological Services and schools.
Jim Sluss is the Senior Associate Dean and Morris R. Pitman Professor in the College of Engineering (CoE) at the University of Oklahoma. He leads research administration for the CoE and has over 25 years of combined academic and industry experience. He has worked in research areas leading to new technology development across a variety of industry sectors, including energy. He has been awarded 15 U.S. patents, has authored/co-authored over 100 journal and conference publications, and has been principal/co-principal investigator on over $16 million in sponsored research grants and contracts.

Sluss received a B.S in physics in 1984 from Marshall University, and his M.S. and Ph.D. in electrical engineering in 1986 and 1989, respectively, from the University of Virginia. He has held many positions with the Institute of Electrical and Electronics Engineers (IEEE), and is currently President of their Education Society.

Industry Experts Panelists

Mark Boling is Executive Vice President of Southwestern Energy Company and President of Southwestern’s V+ Development Solutions division. The mission of V+ Development Solutions is to identify, develop and implement solutions to the challenges of unconventional resource development that strike an appropriate balance among the environmental, social and economic impacts of the company’s activities.

He holds a Juris Doctorate degree from Southern Methodist University and a Bachelor of Science degree in geology from DePauw University. Boling is a member of the American (Environment, Energy and Resources and Business Law Sections), Arkansas (Natural Resources Law Section) and Texas (Oil, Gas & Mineral Law and Corporate Counsel Sections) Bar Associations. In 2012, the London Financial Times named Boling the U.S. Innovative Lawyer of the Year.
Kristi DesJarlais serves as senior vice president and general manager of Saxum’s Houston office. In this role, she oversees client service and leads communication strategy for many of Saxum’s energy clients. DesJarlais has more than 25 years of corporate communications and public affairs management experience from her previous career at Phillips 66, ConocoPhillips and Phillips Petroleum Company. She has led communications teams through mergers, acquisitions, spin-offs and rebrandings. She is a trusted source for media and a savvy spokesperson; you have seen her quoted in the *Wall Street Journal*, *Financial Times* and *Bloomberg*. She has led a nationwide grassroots advocacy program and restructured a multi-million dollar global philanthropy program. DesJarlais earned a Bachelor of Arts degree in journalism from the University of Oklahoma.

Rayola Dougher is a senior economic advisor at the American Petroleum Institute and a member of API’s Media Relations Department. She is one of API’s principal spokespersons and covers a wide range of issues affecting the oil and natural gas industry. Considered an expert in her field, Dougher has been a credible news source and testified before federal and state legislators.

Prior to joining API, Dougher was at the Institute for Energy Analysis where her research focused on carbon dioxide related issues and international energy demand and supply forecasts. She holds a masters in economic development and East Asian studies from the American University and a bachelors degree in history and political science from the State University of New York.
Andrew Weissman founded EBW Analytics Group, a market advisory service that provides cutting-edge analysis of the U.S. and global oil and natural gas markets, in 2003. He has provided strategic advice to leading firms in the energy sector for more than 30 years, playing a key role in developing innovative business structures for major energy transactions, and transforming state and federal energy and environmental policy.

As an energy analyst and attorney, he has helped expand access to the transmission grid, increased competition in wholesale and retail electricity markets, and ensured rate recovery for major capital expenditures for environmental compliance.

Weissman currently serves as Senior Energy Advisor to Haynes and Boone and is an honors graduate of Harvard Law School.

Randy E. Brogdon is the group leader for the Environmental and Natural Resources practice at Troutman Sanders, an international law firm with over 600 attorneys. He has broad-based regulatory and litigation experience in the areas of air quality permitting and compliance, environmental issues associated with mergers and acquisitions, and overall environmental compliance strategies. Randy is a nationally-recognized speaker and author on environmental law and has been named by Chambers USA and The Best Lawyers in America as one of America’s Leading Lawyers in the field of Environmental Law. Randy is a graduate of the University of Oklahoma College of Law and a Recipient of the University of Oklahoma’s Regents’ Alumni Award.
William (Bill) M. Colton is Vice President, Corporate Strategic Planning for ExxonMobil Corporation as of February 1, 2009. In this role, he oversees all of the corporation’s strategic planning activities and the development of its Energy Outlook, ExxonMobil’s assessment of global energy trends.

Colton received his B.S. in chemical engineering from Michigan Technological University in 1975. He joined Exxon Corporation in 1975 and his career has been spent in both upstream and downstream businesses throughout ExxonMobil, including project development, refining, lubes, synthetic fuels and natural gas marketing.

Colton also worked in finance and planning positions, including ExxonMobil corporate headquarters and eight years overseas in Tokyo and Bangkok. Colton’s previous assignment was as the Corporation’s Assistant Treasurer.
Presenting the online Executive MBA in Energy

Price College currently is enrolling.
Join us and obtain a world-class MBA on your schedule.

- Accelerated 15-month program
- Strong business fundamentals inherent with an AACSB-accredited MBA program
- Tailored curriculum built for experienced professionals in the energy industry
- Hybrid program provides tremendous flexibility with 14 of the 22 courses delivered online
- Increase your network across the industry
- Gain international exposure through a one-week trip to London

“The energy-focused curriculum combined with the convenience of an online format makes the University of Oklahoma’s Online Executive MBA in Energy program an ideal choice for me!”

~Virginia Albert; Vice President, Land, New Dominion
January 2014 Cohort

1-855-683-3622 » price.ou.edu/embainenergy
email: emba@ou.edu
The energy-focused curriculum combined with the convenience of an online format makes the University of Oklahoma's Online Executive MBA in Energy program an ideal choice for me!

~Virginia Albert; Vice President, Land, New Dominion
January 2014 Cohort

Presenting the online Executive MBA in Energy

1-855-683-3622
price.ou.edu/embainenergy
e-mail: emba@ou.edu

Price College currently is enrolling. Join us and obtain a world-class MBA on your schedule.

Accelerated 15-month program
Strong business fundamentals inherent with an AACSB-accredited MBA program
Tailored curriculum built for experienced professionals in the energy industry
Hybrid program provides tremendous flexibility with 14 of the 22 courses delivered online
Increase your network across the industry
Gain international exposure through a one-week trip to London

Real education for the real world
www.ou.edu/mcee
OU ENGINEERS
engineering solutions for tomorrow’s energy needs TODAY

COE.OU.EDU | FACEBOOK.COM/ENGINEERINGATOU
The Purpose of Price

The Michael F. Price College of Business ensures the enduring global competitiveness of Oklahoma and the nation.
The Energy Institute at the Price College of Business aims to create a community of practitioners and academics with a results-oriented interdisciplinary perspective seeking to advance innovative and sustainable solutions to the critical energy challenges facing our country and, more broadly, the global community. The institute also seeks to leverage OU’s broad footprint in the energy industry and the nexus of energy-related firms, financial institutions, and federal and state agencies with a vision of integrating the energy-focused initiatives at OU in a global context. This will be achieved by:

**Education**
Provides education opportunities for energy professionals related to managing the multiple facets of the business-energy interface.

**Research**
Fosters and promotes industry and policy relevant research and dialogue on contemporary issues which are at the interface of business and energy.

**Outreach**
Provides a forum for energy professionals and academics to address current topics in business and energy.