



# GOVERNOR'S SUMMIT

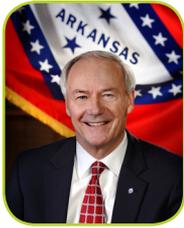
## on Energy Security & Infrastructure

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**Willard Intercontinental Hotel  
Washington, DC  
February 23 - 24, 2017**

Coordinated by





# WELCOME

*from Governor Asa Hutchinson*

To all participants:

Thank you for attending the Governor's Summit on Energy Security and Infrastructure. This year, as I serve as chairman of both the Interstate Oil and Gas Compact Commission and the Southern States Energy Board, I will focus on critical energy infrastructure planning and development as they are essential to fuel our nation's economy in the 21st century. Without reliable and diverse energy supplies and modern technological solutions, all of society is affected and our standing as a world leader is diminished.

Our future energy security and international competitiveness depend on the modernization of America's energy infrastructure including the cyber security innovations that can protect our networks of production, transmission, storage and distribution systems. Threats to energy security in the United States emanate from the political instability of energy producing countries, the manipulation of energy supplies, competition among emerging economies, attacks on power plants and supply infrastructure, natural disasters, accidents, terrorism, and reliance on foreign countries for oil resources. Energy security strengthens the performance of all sectors of the American economy.

At the advent of a new presidential administration, we have a unique opportunity to impact the key decisions that will shape the energy sector of our economy for decades to come. Unconventional oil and gas drilling have given us an international lead in the quest for energy independence, but we must ensure that the regulatory role of the states is clear and strong.

I hope you enjoy your time while at this Summit. I am confident that you will take away important information concerning critical energy infrastructure planning and development in the United States.

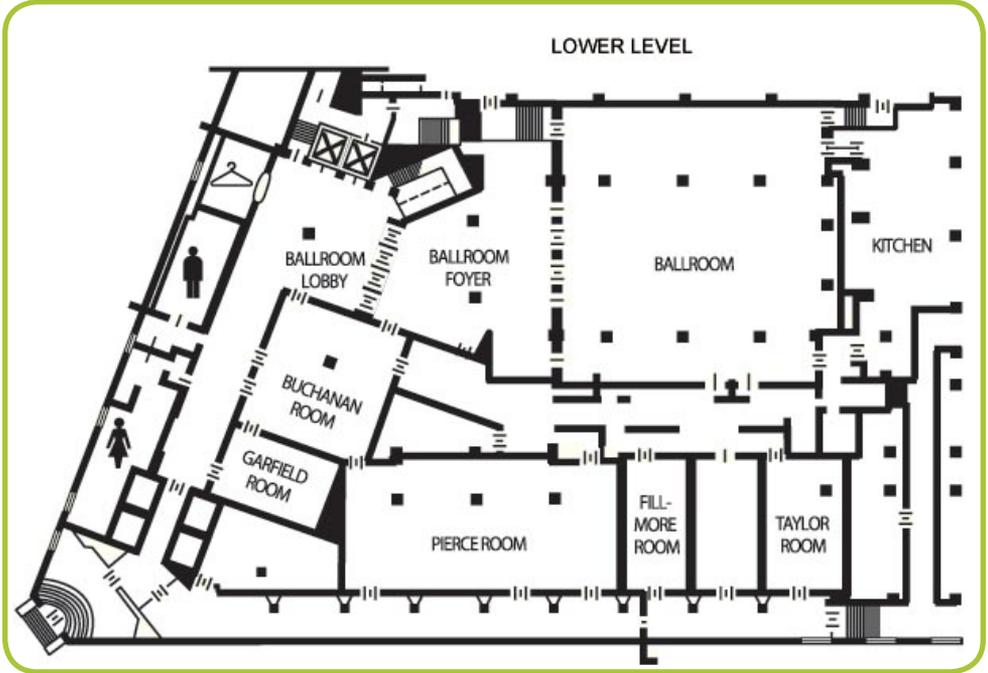
Sincerely,

A handwritten signature in black ink that reads 'Asa Hutchinson'. The signature is fluid and cursive, with the first name 'Asa' being particularly prominent.

Asa Hutchinson  
Governor of Arkansas  
IOGCC, Chairman  
SSEB, Chairman

# HOTEL INFORMATION

The Governor's Summit on Energy Security and Infrastructure will be held at the Willard Intercontinental Hotel in the Ballroom conference room. Breakfast will be served on Friday morning, February 24th, in the Ballroom Foyer.



# REGISTRATION

Thursday, February 23

11:00 am - 5:00 pm

Friday, February 24

7:00 am - 10:00 am

\* Photo identification may be required at registration. Name badge is required to enter the Governor's Summit event.

Feb 23<sup>rd</sup>

1:00 pm

### **Welcome and Opening Remarks**

The Honorable Asa Hutchinson

Governor of Arkansas

Chairman, Interstate Oil and Gas Compact Commission

Chairman, Southern States Energy Board

1:15 pm

### **Session I: Energy Infrastructure & Modernization**

Facilitator: Lawrence Bengal

Director, Arkansas Oil and Gas Commission

- Nick Akins, Chairman, President and Chief Executive Officer, American Electric Power
- Duane Highley, President and Chief Executive Officer, Arkansas Electric Cooperative Corp. and Arkansas Electric Cooperatives, Inc.
- Terry Turpin, Director, Office of Energy Projects, FERC
- Alan Armstrong, President and Chief Executive Officer, Williams

2:30 pm

### **Networking Break**

*Sponsored by Electric Cooperatives of Arkansas*

3:00 pm

### **Session II: Cybersecurity for Energy Systems**

Facilitator: Dr. H. Alan Mantooh,

University of Arkansas

- Dr. Marija Ilic, Visiting Professor, Massachusetts Institute of Technology, Institute for Data, Systems and Society
- Patricia Hoffman, Acting Under Secretary, Office of Science and Energy & Acting Assistant Secretary, Office of Electricity Delivery and Energy Reliability, U.S. Department of Energy
- Dr. Douglas Osborn, Principal Member, Sandia National Laboratories

4:00 pm

**Panel Discussion, including Governors**

- The Honorable Gary R. Herbert, Governor of Utah
- The Honorable Asa Hutchinson, Governor of Arkansas
- C. Michael Smith, Executive Director, Interstate Oil and Gas Compact Commission
- Kenneth Nemeth, Secretary & Executive Director, Southern States Energy Board

4:50 pm

**Summary : Wrap Up Day 1**

Dr. H. Alan Mantooh, University of Arkansas

5:00 pm

**Adjourn**

Feb 24<sup>th</sup>

7:00 am

**Networking Breakfast**

*Ballroom Lobby & Buchanan Room*

8:00 am

**Welcome and Second Day Objectives**

The Honorable Asa Hutchinson  
Governor of Arkansas

8:15 am

**Session III: Workforce Development**

Facilitator: C. Michael Smith, Executive Director,  
Interstate Oil and Gas Compact Commission

- Elizabeth Eide, Director, Board on Earth Sciences and Resources, National Academy of Sciences
- Rhonda Reda, Executive Director, Ohio Oil and Gas Energy Education Program
- Dr. Diana Burley, Executive Director and Chair, Institute for Information Infrastructure Protection, George Washington University

# AGENDA

**8:15 am**

## **Session III: Workforce Development (cont.)**

- Patrick Sullivan, President, Mississippi Energy Institute
- The Honorable Matt Bevin  
Governor of Kentucky

**10:00 am**

## **Session IV: Energy and Environment**

Facilitator: Kenneth Nemeth, Secretary & Executive Director, Southern States Energy Board

- The Honorable Matt Mead  
Governor of Wyoming
- Karen Harbert, President and Chief Executive Officer  
Institute for 21st Century Energy

**10:45 am**

## **Summary: Wrap Up Day 2**

Dr. H. Alan Mantooth, University of Arkansas

## **Lessons Learned and Path Forward**

The Honorable Asa Hutchinson , Governor of Arkansas

**11:00 am**

## **Adjourn**

# SPEAKER BIOS

## **Governor Asa Hutchinson**

Asa Hutchinson was sworn in as the 46th Governor of Arkansas in January 2015, and immediately set in motion his plan to bring more jobs and economic growth to his native state.

Governor Hutchinson kept a major campaign promise by working to pass the biggest income tax rate cut in state history. His initiative to require computer-coding classes in every public high school makes Arkansas a national leader and signals to businesses everywhere that our students will be prepared for the 21st century economy.

In addition, the Governor's emphasis on government efficiencies—including a hiring freeze instituted on his first day—have resulted in taxpayer savings and better focused state services.

As part of his strategy to market Arkansas and attract more jobs and businesses to the state, Governor Hutchinson already has met with CEOs of major industries across the globe from Silicon Valley to Germany, China and Cuba.

On the national stage, Governor Hutchinson has been a key leader on energy, security and education. The Governor is chairman of the Interstate Oil and Gas Compact Commission (IOGCC), chairman of the Southern States Energy Board (SSEB), and chairman of the National Governors Association Homeland Security and Public Safety Committee. He is the former chairman of the Southern Regional Education Board.

Before being elected governor, Asa Hutchinson served as Director of the Drug Enforcement Administration and as the first Undersecretary of the Department of Homeland Security. Voters in Arkansas's Third District also elected him to Congress three times.

A graduate of the University of Arkansas law school, Asa Hutchinson, at age 31, was appointed by President Reagan as the nation's youngest U.S. attorney.

He and his wife Susan have been married 43 years. They have four children and five grandchildren.



## **Governor Matt Bevin**

Matt Bevin was elected Governor of the Commonwealth of Kentucky in 2015. He is a husband, a father of nine children, a veteran and a small business owner.



Gov. Bevin grew up in an old farmhouse where his family raised both crops and animals. His family of eight shared three bedrooms and one bathroom. It was a financially humble home but he was raised with a strong work ethic and solid Christian values.

He attended Washington and Lee University, in Virginia, on an ROTC scholarship and upon graduation served Active Duty as a US Army officer.

After his military service, Gov. Bevin worked for many years in the financial industry. A job opportunity brought Gov. Bevin and his wife, Glenna, a registered nurse, to Kentucky 17 years ago, when they decided to put down roots and raise their family.

Gov. Bevin has founded several companies in Kentucky and invested in a number of others in the Commonwealth and around the United States. He has managed and expanded multiple businesses, creating many good paying jobs for hard working Americans. These companies range from manufacturing to investment management to medical devices.

In 2011, Gov. Bevin also became the sixth generation President of Bevin Bros., a small bell manufacturing company that began in 1832. He makes all the bells used by the Salvation Army volunteers each year. The company was bankrupt when Matt took over and he saved more than 25 jobs.

Gov. Bevin has served on many non-profit boards, including Chairman of the Board for the American Red Cross, Louisville Area Chapter. He has permanently endowed several scholarship funds, grants, and centers that provide educational opportunities for young people with limited financial resources.

## **Governor Gary R. Herbert**

Governor Gary Richard Herbert has led Utah's recovery from the Great Recession to a position of national economic prominence. His unwavering focus on economic development includes attracting businesses and investment to the state while helping homegrown businesses flourish.



The governor is focused on four cornerstones to strengthen Utah's economy: education, jobs, energy, and self-determination. As a

result, Utah has become a premier destination for business, jobs, and an unsurpassed quality of life.

As Utah's 17th governor, he took the oath of office on August 11, 2009. Prior to becoming the state's chief executive, Governor Herbert served as lieutenant governor for five years. He is the past chair of the Western Governors Association and National Governors Association.

Governor Herbert and his wife, Jeanette, are the proud parents of six children and 16 grandchildren.

### **Governor Henry McMaster**

Henry Dargan McMaster of Columbia ascended to become the 117th Governor of South Carolina on January 24, 2017.

The son of the late attorney and former State Representative John Gregg McMaster and the late Ida Dargan McMaster, Governor McMaster is married to Peggy McMaster, and they have two children, Henry D. McMaster, Jr. and Mary Rogers McMaster.



Prior to becoming governor, McMaster served two years as Lieutenant Governor of South Carolina, eight years as Attorney General of South Carolina and four years as U.S. Attorney for South Carolina.

McMaster was the last independently elected Lieutenant Governor of South Carolina, and served as President of the Senate for the duration of his term.

The first U.S. Attorney appointed by President Ronald Reagan, McMaster was unanimously confirmed by the U.S. Senate. His "Operation Jackpot" investigation into international drug smuggling produced over 100 convictions.

In 2012 and upon Governor Nikki Haley's appointment, McMaster and former Attorney General Travis Medlock led a bi-partisan commission to reform ethics laws and restore the public's trust in state government.

Mr. McMaster was elected chairman of the S.C. Republican Party in 1993 and was re-elected three times, also serving on the Republican National Committee until 2002. As chairman, he ushered in Republican majorities in the state's House, Senate and constitutional offices.

McMaster received his AB degree in history in 1969 from the University of South Carolina and his Juris Doctor degree in 1973 from the University of South Carolina School of Law, where he served on the Law Review. He entered private practice in Columbia in 1974 with Tompkins and McMaster, established in 1898.

## **Governor Matt Mead**

Matt Mead, Wyoming's 32nd Governor, took office in January 2011 and is serving his second term. He was born and raised in Jackson. After earning a law degree from the University of Wyoming, he served as a prosecutor, practiced in a private firm and served as U.S. Attorney. He maintains a farm and ranch business with his wife Carol in southeast Wyoming.



Governor Mead initiated a comprehensive state energy strategy released in 2013 and an innovative state water strategy released in 2015. He moved the entire state to a 100 gigabit broadband network. His rules initiative has resulted in fewer regulations and improved public access to rules. His focus on increasing state competitiveness, for example, through technology, innovation and expansion of business opportunities in numerous economic sectors, has brought national recognition.

Wyoming's accolades include: most business friendly tax climate, third best for new business startup activity, best state to start a business, first in Mountain Region workforce development, best state to make a living, second highest rate of confidence in state government, best state to retire and many more.

Serving in national and regional leadership roles, Governor Mead is Vice Chair of the Natural Resources Committee of the National Governors Association and Co-chair of the State and Federal Sage Grouse Task Force. He is the immediate past Chairman of the Western Governors' Association.

Matt and Carol have been married 25 years and have two teenage children.

## **Nick Akins**

Nick Akins is chairman, president and chief executive officer of American Electric Power. He is AEP's 11th chairman, 10th president and sixth CEO in the company's more than 100-year history. He is a member of AEP's board of directors and is the only management representative on the board.



Akins rose through the ranks at both AEP and the former Central and South West Corp. (CSW), which merged with AEP in 2000. Akins began his career in 1982 as an electrical engineer before moving up to positions of increasing responsibility. Prior to being elected president of AEP in December 2010, he served as executive vice president - Generation from 2006 through 2010 with responsibility for all generation activities of AEP's approximately 38,000 MW of generation resources.

Previously, he served as president and chief operating officer for Southwestern Electric Power Company, and held other leadership roles in Energy Marketing Services, Transmission, External Affairs and Industry Restructuring.

A native of Louisiana, Akins received his bachelor's degree in 1982 in electric engineering from Louisiana Tech University in Ruston and a master's degree in electrical engineering in 1986 from Louisiana Tech. Additional training includes executive management programs at Louisiana State University, the University of Idaho and the Reactor Technology Course for Utility Executives at the Massachusetts Institute of Technology. He is a registered professional engineer in Texas.

Akins is a former chairman of the Board of Directors of both the Edison Electric Institute (EEI) and the Electric Power Research Institute (EPRI), and currently serves on both boards. He is a member of the Executive Committee of the Business Roundtable (BRT) and was appointed chair of the BRT's Energy and Environment Committee. Additionally, he is a member of the boards of the Nuclear Energy Institute (NEI), Global Sustainable Electricity Partnership (GSEP), The Columbus Partnership, Columbus Downtown Development Corporation, Nuclear Electric Insurance Limited (NEIL), Fifth Third Bancorp, OhioHealth and the Rock and Roll Hall of Fame and Museum.

Akins and his wife, Donna, live in Dublin, Ohio. They have two adult sons.

## **Alan Armstrong**

Alan Armstrong became president and chief executive officer of Williams in January 2011. Previously, he served as president of Williams' midstream and olefins businesses in North America. Additionally, Armstrong serves as chairman of the board and chief executive officer for Williams Partners L.P. (NYSE:WPZ), the master limited partnership that owns most of Williams' gas pipeline and domestic midstream assets.



Previously, Armstrong served as vice president of gathering and processing from 1999 to 2002; vice president of commercial development from 1998 to 1999; vice president of retail energy services from 1997 to 1998 and director of commercial operations for the company's midstream business in the Gulf Coast region from 1995 to 1997. He joined Williams in 1986 as an engineer.

Armstrong graduated from the University of Oklahoma in 1985 with a bachelor's degree in civil engineering.

Armstrong serves on the board of directors of the American Petroleum Institute and is a member of the National Petroleum Council and the Business Roundtable. He previously served as president of the Gas Processors Association and as a director on the Natural Gas Supply Association's board.

## **Diane Burley**

Diana L. Burley, Ph.D. is executive director and chair of the Institute for Information Infrastructure Protection (I3P) and full professor of human & organizational learning at The George Washington University. She is a globally recognized cybersecurity expert who currently co-chairs the ACM Joint Task Force on Cybersecurity Education.



In 2014, Dr. Burley was named the cybersecurity educator of the year and as one of the top ten influencers in information security careers. In 2013, she served as co-Chair of the US National Research Council Committee on Professionalizing the Nation's Cybersecurity Workforce. Dr. Burley has written more than 75 publications on cybersecurity, information sharing, and IT-enabled change.

Prior to joining GW, she managed a multi-million dollar computer science education and research portfolio and led the CyberCorps program for the National Science Foundation. She is the sole recipient of both educator of the year and government leader of the year awards from the Colloquium for Information Systems Security Education and has been honored by the Federal CIO Council for her work on developing the federal cyber security workforce. She served two appointments on the Cyber Security Advisory Committee of the Virginia General Assembly Joint Commission on Technology & Science (2012, 2013) and has secured nearly \$10 million in sponsored research support. Dr. Burley is a widely sought after speaker on cybersecurity workforce development, critical information infrastructure protection and the evolving cybersecurity landscape.

She holds a BA in Economics from the Catholic University of America; M.S. in Public Management and Policy, M.S. in Organization Science, and Ph.D. in Organization Science and Information Technology from Carnegie Mellon University where she studied as a Woodrow Wilson Foundation Fellow.

## **Elizabeth A. Eide**

Elizabeth A. Eide is director of the Board on Earth Sciences and Resources and the Water Science and Technology Board at the National Academies of Sciences, Engineering, and Medicine. The Boards oversee a range of activities at the Academies including geospatial, geographical, and mapping science, energy and mineral resources, natural hazards, deep- through surface-earth processes, geological and geotechnical engineering, and all things related to water.

A geologist by training, she has overseen 11 NRC studies on topics including critical minerals, disaster resilience, induced seismicity, coalbed methane,

and floodplain mapping. Prior to joining the Academies in 2005, she served as a research geologist, team leader, and geochronology laboratory manager for 12 years at the Geological Survey of Norway in Trondheim. Among her publications are ~50 peer-reviewed journal articles and book chapters.

She received a Fulbright Scholarship to Norway and was elected to membership in the Royal Norwegian Society of Sciences and Letters. She enjoys mentoring middle school students in D.C. with the Higher Achievement Program. She completed a Ph.D. in geology at Stanford University and received a B.A. in geology from Franklin and Marshall College.

### **Karen Harbert**

Karen Alderman Harbert is president and chief executive officer of the U.S. Chamber of Commerce’s Institute for 21st Century Energy (Institute). Harbert leads the Institute’s efforts to build support for meaningful energy action nationally and internationally through policy development, education, and advocacy.



Under Harbert’s leadership, the Energy Institute has evolved into a premier national and international organization dedicated to advancing a constructive energy agenda with the business community, policymakers, and consumers. Harbert frequently testifies in front of Congress and provides analysis to the media, policymakers, and industry leaders.

Harbert led the Energy Institute’s development of its comprehensive Energy Works for US platform, which provides policy recommendations to secure our nation’s energy future and create millions of jobs, billions of dollars in revenue, and trillions of dollars of private investment. The Institute has attracted grassroots advocates across the nation supporting its efforts to capitalize on America’s tremendous energy promise. Under Harbert’s leadership, it established the groundbreaking Index of Energy Security Risk and the International Index of Energy Security Risk, the first tools to quantify America’s energy security on an annual basis.

Harbert is an appointed member of the National Petroleum Council, an industry advisory organization that advises the Secretary of Energy on issues related to the oil and gas industries. Harbert is the former assistant secretary for policy and international affairs at the U.S. Department of Energy (DOE). She was the primary policy adviser to the secretary of energy and to the department on domestic and international energy issues. She negotiated and managed bilateral and multilateral agreements with other countries and also served as vice chairman of the International Energy Agency, which

advises its 28 member nations on energy policy issues and orchestrates international responses to energy supply disruptions.

Harbert gained experience on issues associated with economic reform and privatization through earlier positions at the USAID, the Organization of American States, and the International Republican Institute. She received a degree in international policy studies and political science from Rice University in Houston, Texas. Harbert resides in Washington, D.C., with her husband and two children.

### **Duane Highley**

Duane Highley is President and CEO for Arkansas Electric Cooperative Corp. and Arkansas Electric Cooperatives, Inc. He is a registered professional engineer with degrees from the Missouri University of Science and Technology and has completed the Harvard Business School Advanced Management Program.



Duane serves on the Board of the Electric Power Research Institute (EPRI), on the Southwest Power Pool Members Committee, and is co-chair of the Electric Subsector Coordinating Council (ESCC), working with cabinet-level administration officials on electric system reliability, security and resiliency. Duane has appeared in testimony before committees of the U.S. Senate and the U.S. House of Representatives. He is passionate about advancing the cooperative business model to provide essential services in developing countries around the world.

### **Patricia Hoffman**

Serving as the Principal Deputy Assistant Secretary for the Office of Electricity Delivery and Energy Reliability (OE) at the U.S. Department of Energy (DOE), Ms. Patricia A. Hoffman assumes the role of Acting Assistant Secretary for OE until a new Assistant Secretary is confirmed by the Senate. Ms. Hoffman is also serving as Acting Under Secretary for Science and Energy and will serve in that role until a new Under Secretary is confirmed by the Senate.



Ms. Hoffman was named Assistant Secretary for OE from June 2010 to January 2017, after serving as Principal Deputy Assistant Secretary since November 2007. The focus of her responsibility is to provide leadership on a national level to modernize the electric grid, enhance the security and reliability of the energy infrastructure and facilitate recovery from disruptions to the energy supply both domestically and internationally.

Prior to her current position, Ms. Hoffman served in a dual capacity as Deputy Assistant Secretary (DAS) for Research and Development (R&D) and Chief Operating Officer (COO) within OE. During her tenure as the DAS for R&D, she developed the long-term research strategy and improved the management portfolio of research programs for modernizing and improving the resiliency of the electric grid. She also initiated a new research effort focused on integrating and distributing renewable energy through the electric grid, such as promoting plug-in hybrid electric vehicles and implementing smart grid technologies to maintain system reliability. As COO, she managed the OE business operations, including human resources, budget development, financial execution, and performance management.

Ms. Hoffman holds a Bachelor of Science and a Master of Science in Ceramic Science and Engineering from Pennsylvania State University.

### **Marija Ilic**

Marija Ilic is a Visiting Professor at the new MIT Institute for Data, Systems and Society. Prof. Ilic is a Professor at Carnegie Mellon University, Pittsburgh, PA, with a joint appointment in the Electrical and Computer Engineering and Engineering and Public Policy Departments. She is also the Honorary Chaired Professor for Control of Future Electricity Network Operations at Delft University of Technology in Delft, The Netherlands.



She was an Assistant Professor at Cornell University, Ithaca, NY, and tenured Associate Professor at the University of Illinois at Urbana-Champaign. She was then a Senior Research Scientist in Department of Electrical Engineering and Computer Science, Massachusetts Institute of Technology, Cambridge, from 1987 to 2002. She has 30 years of experience in teaching and research in the area of electrical power system modeling and control. Her main interest is in the systems aspects of operations, planning, and economics of the electric power industry.

She is Director of the Electric Energy Systems Group at Carnegie Mellon University whose main objective is mathematical modeling, analysis and decision making for the future energy systems. She is leading the quest for transforming today's electric power grid into an enabler of efficient, reliable, secure and sustainable integration of many novel energy resources. She has co-authored several books in her field of interest. Prof. Ilic is an IEEE Fellow and Distinguished Lecturer.

## **Douglas Osborn**

Dr. Douglas Osborn is a principal member of the technical staff at Sandia National Laboratories. Doug conducts severe accident research for nuclear power plants and spent nuclear fuel. He assisted in the United States' response to the reactor meltdowns in Fukushima, Japan, and is currently working on nuclear power safety assessments for the U.S Nuclear Regulatory Commission, the U.S Department of Energy, and international customers. Additionally, Doug is working on integrated safety and security analysis frameworks for Sandia. Prior to working at Sandia National Laboratories, he served in the United States Navy on board the aircraft carrier USS Dwight D. Eisenhower. Doug holds a PhD in nuclear engineering from the Ohio State University.



## **Rhonda L. Reda**

Rhonda L. Reda serves as Executive Director of the Ohio Oil and Gas Energy Education Program (OOGEEP) and the Ohio Oil and Gas Energy Education Foundation (Foundation). Ms. Reda helped form the organization in 1997. Prior to OOGEEP, Ms. Reda served as Vice President, Internal Affairs and Public Information for the Ohio Oil and Gas Association for more than a decade. Ms. Reda has also worked for several oil and gas companies including CGAS Exploration, Inc., Phillip Brown Oil Well Services, Inc., and Halwell/ Energy Omega, Inc. Collectively, she has more than twenty eight years of experience in the crude oil and natural gas industry.



Ms. Reda currently serves on the Public Outreach Committee of the Interstate Oil and Gas Compact Commission (IOGCC) and is a Board Member of the Petroleum History Institute. She is an active member of the Ohio Oil and Gas Association (OOGA), Independent Petroleum Association of America (IPAA), Society of Petroleum Engineers (SPE) and the Ohio Geological Society (OGS). Ms. Reda served on the White House Task Force on Energy Education, and has received numerous state and national awards for OOGEEP's efforts including: Ohio Oil and Gas Association's Oilfield Patriot Award, Southeastern Ohio Oil and Gas Association's Work Horse Award, AAPG Eastern Section's Presidential Award for Public Outreach, Friend of Science Award from the Science Council of Ohio, EPA's Ohio Environmental Education Award for Outstanding Program, World Oil Runner Up for Best Public Outreach Program, Ohio Department of Natural Resources' Minerals Education Award, and the Interstate Oil and Gas Compact Commission's Public Outreach Stewardship Award. Ms. Reda is a graduate of both Ohio University and Edison State College. She lives with her husband of 30 years and has a daughter and son.

## **Patrick Sullivan**

Patrick Sullivan is President of the Mississippi Energy Institute, a private, non-profit business created to support research and energy policy to foster economic growth in Mississippi. Prior to his work at the Mississippi Energy Institute, Patrick served both as Policy Advisor and as Executive Director of Recovery and Renewal for Mississippi Governor Haley Barbour. Serving as Policy Advisor to Governor Barbour from 2006-2011, he had oversight of issues pertaining to energy, transportation, environment, agriculture, natural resources, and economic development. In July 2010, he was named Executive Director of the Governor's Office of Recovery and Renewal, which is the primary entity responsible for coordinating disaster assistance, overseeing state-level response and assistance for the Deepwater Horizon oil spill, the April 2011 tornado disasters, and the 2011 Mississippi River flood.



Patrick is a graduate of Mississippi State University with a Master of Agribusiness Management and resides in Madison, MS, with wife, Elizabeth, and two sons, Garrett and Jake.

## **Terry Turpin**

Terry Turpin is the Director of the Office of Energy Projects. The Office is responsible for siting infrastructure projects including licensing, administration, and safety of non-federal hydropower projects; authorization of interstate natural gas pipelines and storage facilities; and authorization and operation of liquefied natural gas (LNG) terminals. Terry started his career at the Commission in 1998 as a staff engineer where he was responsible for the review of natural gas pipeline applications. He then took on positions of increasing responsibility within the LNG program area and served as LNG Engineering Branch Chief and then LNG Engineering & Compliance Branch Chief. More recently, Terry served as Director of the Division of Gas – Environment and Engineering within the Office of Energy Projects. In this role, Terry oversaw a multi-disciplinary staff in the preparation of environmental documents for proposed natural gas pipelines and LNG facilities.



Terry holds a Bachelor of Science Degree in Civil Engineering and is a Registered Professional Engineer.



The Interstate Oil and Gas Compact Commission, comprised of 38 oil and gas producing states, is a multi-state government entity that promotes the conservation and efficient recovery of domestic oil and natural gas resources while protecting health, safety and the environment.

The Commission, acting through member-state governors, assists states to maximize oil and natural gas resources through sound regulatory practices. As the collective voice of member governors on oil and gas issues, the IOGCC advocates for states' rights to govern petroleum resources within their borders.



*“Through innovations in energy and environmental policies, programs and technologies, the Southern States Energy Board enhances economic development and the quality of life in the South.”*

- SSEB Mission Statement

The Southern States Energy Board (SSEB) is a non-profit interstate compact organization created in 1960 and established under Public Laws 87-563 and 92-440. Sixteen southern states and two territories comprise the membership of SSEB: Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Maryland, Mississippi, Missouri, North Carolina, Oklahoma, Puerto Rico, South Carolina, Tennessee, Texas, U.S. Virgin Islands, Virginia and West Virginia.

# SUMMIT SPONSORS



# SESSION BREAK SPONSOR



**Electric Cooperatives  
of Arkansas**



**UNIVERSITY OF  
ARKANSAS**

A special thank you to Dr. H. Alan Mantooth and the University of Arkansas for help with coordination and planning of this Summit.



We would also like to send our appreciation to Lawrence Bengal and Shane Khoury from the Arkansas Oil and Gas Commission for helping provide guidance and organization for this event.



*Transcending Boundaries*



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ARKANSAS