



Indianapolis • July 21-22

WIndiana 2010 Conference Agenda

Track One (Room 125)
sponsored by

Track Two (Room 126)
sponsored by

Track Three (Room 127)
sponsored by

Invenergy

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Wednesday, July 21

7:00–8:00 a.m. Registration/breakfast/exhibition floor opens

8:00–8:15 a.m. Welcome/Conference logistics

8:15–10:15 a.m. Opening Session — Perspectives from the Industry

Moderator and Introduction: **Don Villwock**, Indiana Farm Bureau

Dan Thompson, Invenergy

Jim Buddelmeyer, Gamesa Wind USA

10:15–10:30 a.m. *Break*

10:30–Noon

Track 1: Big Wind

*Integrating Wind into Daily
Grid Operations*

Moderator: Travis Murphy,

Indiana Office of Energy Development

Kris Ruud, Midwest ISO

Bob Zavadil, EnerNex Corporation

Track 2: Smaller/Community Wind

Integrating Property Owners

Moderator: Justin Schneider,

Indiana Farm Bureau

Bruce Buchanan, Landowner

Robert Thompson, Director of
Porter County Plan Commission

Regan Newton, New Holland Rochester

Phil Seybold, Cope Environmental

Timothy Ochs, Ice Miller, LLP

Track 3: Wind Power Supply Chain

Wind Power Supply Chain Overview

Moderator: Doug Ahlfeld,

Ershigs, Inc.

Jeff Anthony, American Wind
Energy Association

Matt Conrad, Krieg DeVault

Noon–1:30 p.m. *Lunch* — Keynote address: **Indiana Lt. Governor Becky Skillman; B. Keith Trent, Duke Energy Generation**
(Sponsored by Brevini Wind USA, Inc.)

1:45–3:15 p.m. *1–Transmission Expansion and
Planning for Integrating Wind*

Moderator: Marc Lewis,

Indiana Michigan Power

Paul McGlynn, PJM

Beth Soholt, Wind on the Wires

Manzar Rahman, American Electric
Power

2–Integrating Wind into Indiana Communities

Moderator: Chade Charles,

IN Wind, LLC

Bill Basa, Northern Power Systems

Tony Kuykendall, Performance Services

Jon Kreucher, Howard & Howard

Ralph Diehl, PowerWind

3–How the Wind Supply Chain Works

Moderator: Jeff Anthony,

American Wind Energy Association

Patrick Fullenkamp, Global Wind
Network

Mike Graska, Global Wind Network

Dale Reckman, Global Wind Network

3:15–3:30 p.m. *Break*

3:30–5:00 p.m. *1–Wind Energy's Future is Now*

Moderator: Marline Breece,

Indiana Wind Working Group

Tom Weaver, American Electric Power

Paul Seppanen, Energy Maintenance
Service

Mike O'Brien, Bluewater Wind

David James, Windy City Green Power

*2–Integrating Wind into the Small Business
or Home*

Moderator: Eric Cotton,

Indiana Renewable Energy Association

Dan Bates, WindStream Technologies

Sequoyah Bible, Tippecanoe School
Corporation

Chad Martin, Purdue University

Craig Porter, ECI Wind and Solar

*3–Wind Turbine and Component
Manufacturing in Indiana*

Moderator: Catherine Hoffman,

Wind Energy Manufacturers Association

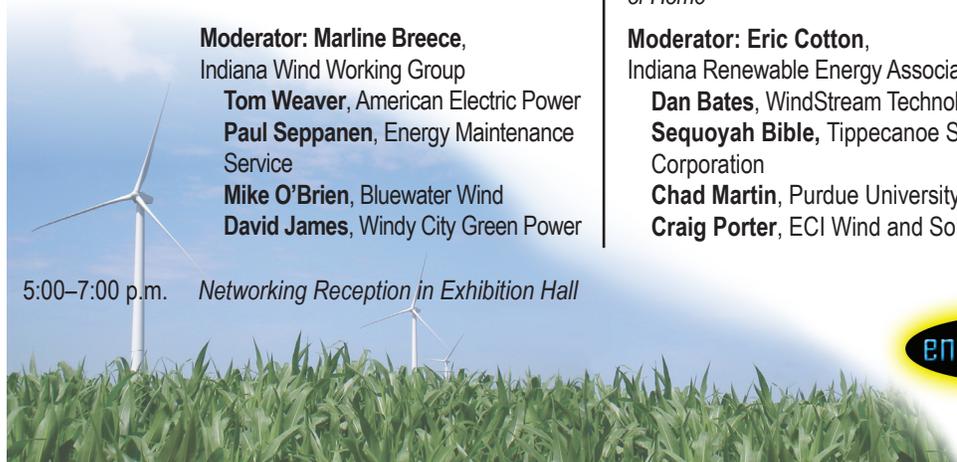
David Neil, ATI Casting Service

Noel Davis, Vela Gear Systems

Colm Gallagher, Carlisle Brake

Greg Winkler, Brevini Wind USA

5:00–7:00 p.m. *Networking Reception in Exhibition Hall*



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PURDUE UNIVERSITY
Discovery Park
Energy Center

Thursday, July 22

7:30-8:30 a.m. Registration/Coffee

8:30-10:15 a.m.

Track 1: Big Wind

Integrating Research into Today's Wind Industry

Moderator: Travis Murphy,
Indiana Office of Energy Development
Doug Adams, Purdue University
Sara Pryor, Indiana University
Rebecca Barthelmie, Indiana University

Track 2: Smaller/Community Wind

Integrating the Indiana Workforce into the Wind Industry

Moderator: Kyle Cline,
Lugar Center for Renewable Energy
Jie Chen, IUPUI
Isaac Slaven, Ivy Tech
Tom Conway, BlueGreen Alliance
Kent Powell, Amatrol, Inc.

Track 3: Wind Power Supply Chain

Wind Power Services and Support in Indiana

Moderator: David James,
Murray and Trettel
Steve Aker, White Construction
Pam Butler, Advantage Title
Will Ditzler, JFNew
Jeff McPherson, Irving Material Inc.

10:15-10:30 a.m. Break

10:30 a.m.-noon

1&2-Combined Session: Bumps in the Wind Power Road – Challenges and Opportunities in Wind Power in Indiana (Exhibit Hall B)

Moderator: Jim Atterholt,
Indiana Utility Regulatory Commission
Barry Wood, Indiana Department of Local Government Finance
Tom Cervone, Bernardin Lochmueller & Associates
James Howell, Indiana State Department of Health
Frank Hoffman, Krieg DeVault

3-Making the Wind Supply Chain Happen in Indiana

Moderator: Connie Neinger,
White County EDO
Pam Fisher, Indiana Economic Development Corporation
Michael Hicks, Ball State University
Dave Snow, TAP, Purdue University
Lisa Laughner, Conexus

Noon-12:15 p.m. Box lunches available in Exhibit Hall B (Sponsored by Tradewind Energy)
Wind tour bus ride assembly
Leave for Small Wind tour
(Tour information is available at the registration desks)

12:15-3:30 p.m. Round Table Discussions —
Facilitated discussions on various wind topics (Exhibit Hall B)

4:00 p.m. *WIndiana 2010 ends*

TEXT MESSAGE YOUR QUESTION TO A PANELIST OR SPEAKER

Text your question to 317-412-9133 or 317-758-3423.

Exhibits will be open throughout each conference day.



July 21, 2010

On behalf of Lt. Governor Becky Skillman, and Purdue University, I would like to welcome you to WIndiana 2010.

When we put on the first WIndiana in 2008, the wind industry in Indiana was very young. Our thoughts in putting together that conference were focused on the “Who? What? Where? Why?” of wind in our state, and bringing people together to discuss those questions.

Since that time, the wind industry in Indiana has continued to grow. For the last two years, Indiana has been recognized by the American Wind Energy Association for the overall growth in this industry. We no longer have to spend as much time explaining what wind power is, or why it is growing so quickly here.

There is however, another question. Now what?

Now that Indiana’s wind resource is being tapped, how do we integrate that resource into our larger energy future? How do we make the best use of this resource? How do we sustain this growth? These are the next generation questions before us.

The overall theme of this year’s WIndiana conference is, “Integrating Wind in Indiana”. The discussions that you will take part in may not fully answer that question, but they will certainly help better define the issue. Your presence here will help shape exactly how we integrate wind power into our lives.

This conference does not just happen. Work on WIndiana 2010 started shortly after WIndiana 2009 closed its doors. Members and staff of The Indiana Wind Working Group, the Office of Energy Development, Purdue Discovery Park Energy Center and Purdue University Conferences would like to thank the moderators, panelists, sponsors and exhibitors who have helped make WIndiana 2010 a success.

Sincerely,

Brandon Seitz
Director
Indiana Office of Energy Development

Indiana 2010 Speaker Biographies

Adams is the Kenninger Professor in the School of Mechanical Engineering at Purdue University and director of the Purdue Center for Systems Integrity, which develops new methods for structural health monitoring and prognosis of wind turbines and other engineered systems. He has published more than 170 papers and a textbook on health monitoring of structural materials. The recipient of a Presidential Early Career Award for Scientists and Engineers, Adams also is listed in the Purdue Book of Great Teachers. Several of his discoveries for increasing reliability and reducing operational costs have been commercialized by industry.

Doug Adams
Kenninger Professor of Renewable
Energy and Power Systems
Purdue University

Ahlfeld oversees Southeastern region sales for Ershigs, Inc., Belco, and Fabricated Plastics, all owned by Denali Inc., which provides fiberglass scrubbers, ducts, and stacks used in flue desulphurization and carbon sequestration in coal-fired power plants throughout the United States, Canada, Israel, and China. Credited with bringing Denali into the green energy market, he helped to facilitate Ershigs's second Ohio Frontier grant to build an all-composite 100-meter wind tower next to the Dayton Power & Light Stuart Station. Ahlfeld is one of the original members of the Indiana Wind Working Group.

Doug Ahlfeld
Southeastern Regional Manager
Ershigs, Inc./Belco/Fabricated
Plastics

A graduate of DePauw University, Aker resides on a farm in southern Putnam County, Indiana. For nearly 20 years, he has worked with White Construction, Inc., a Vermillion County-based company that is now the third largest wind turbine installer in the country. Founded in 1947, the company constructs wind farms, solar farms, biomass, and geothermal power plants, among other heavy industrial and heavy highway construction projects, and is planning to construct and equip a \$10 million LEED-certified headquarters in Clinton, Indiana. To date, the company has installed more than 4,000 megawatts of wind power.

Steve Aker
White Construction, Inc.

Anthony joined the American Wind Energy Association (AWEA) in 2007 as manager of utility programs. In 2009, he was promoted to director of business development, with responsibility for attracting new business members to AWEA as well as overseeing the wind energy supply chain initiative to increase manufacturing of wind turbines and components in the United States. Before joining AWEA, Anthony worked at We Energies (Wisconsin Electric) for 19 years, most recently as manager of renewable energy strategy. He has a BS from Purdue University in nuclear engineering and an MBA from Northwestern University.

Jeff Anthony
Director of Business Development
American Wind Energy Association

Atterholt has dedicated much of his life to public service. He served two terms on the Indiana General Assembly, has worked as chief of staff in Washington, D.C. for a member of the United States Congress, and served on the Governor's Cabinet for four years as state insurance commissioner. In 2009, Governor Mitch Daniels appointed him to the Indiana Utility Regulatory Commission. Atterholt has a bachelor's degree from the University of Wisconsin. He is a member of the National Association of Regulatory Utility Commissioners (NARUC), where he serves on the Committee on Gas.

James D. Atterholt
Commissioner
Indiana Utility Regulatory Commission

Barthelmie's research encompasses many aspects of wind energy with a special focus on wind turbine wakes. She has authored more than 90 journal papers and 250 conference papers and reports, is editor of the journal *Wind Energy*, and serves on the European Union Technical Platform on Wind Energy as well as several conference committees. Barthelmie holds a PhD and a BSc from the University of East Anglia in Norwich, England. In 2009, she received the annual scientific award from the European Wind Energy Academy for achievements in wind energy research.

Rebecca Barthelmie
Professor of Atmospheric Science
and Sustainability
Indiana University

Basa consults with Northern Power Systems on public policy initiatives that affect the onsite generation market for wind in the United States, Canada, and Europe. In addition, he acts as a liaison on clean energy issues to state legislators and state policymaking bodies across the country. Basa also is president of Global Market Research, a financial markets research firm that provides quantitative forecasting analysis to institutional portfolio managers. He edits daily and weekly research briefs on U.S. fixed income markets, G-20 currency markets, and select U.S. equity sectors and indices. He has a BA in economics from Yale University.

William Basa
Northern Power Systems

Dan Bates

**President and CEO
WindStream Technologies**

Dan Bates is president and CEO of WindStream Technologies, Inc., an alternative energy company that has created new technologies and products to serve municipal, light industry, and residential customers. The firm is planning a production facility at the Purdue Research Park in New Albany, Indiana, and has secured several letters of intent for pilot programs with municipalities throughout California. Before joining WindStream, Bates was president of Avant Interactive, which created, patented, and licensed interactive video technology to major television and cable networks, national and international advertisers and marketers, educational video providers, and the United States military.

Sequoyah Bible

**Administrative Assistant Energy
Management
Tippecanoe School Corporation**

Bible has more than 40 years of experience with Tippecanoe School Corporation (TSC) in positions such as athletic director, teacher, and administrator. Currently he is administrative assistant for energy management for TSC. A graduate of Vincennes University and Purdue University, Bible holds a master's degree in education. For two decades, he has served Purdue in positions such as director of Indiana State Fair Youth Leadership School, consultant for the Purdue Cooperative Extension Service, assistant director of the Purdue Aerospace Program for youth, dean of students for the 4-H Roundup program, and observer for Big Ten Men's Basketball.

Marline Breece

**Attorney at Law
Indiana Wind Working Group**

Breece began her career with the Illinois Environmental Protection agency, then moved on to Indianapolis Power & Light Company, where she stayed until she became the Indiana Municipal Power Agency's first legal counsel. She continued in wholesale power and transmission as an attorney with Baker & Daniels, becoming a solo practitioner in 2006. Breece represents public utilities and wind energy developers on matters related to the Midwest ISO, energy supply procurement, and the interconnection of electric-generating facilities to the transmission grid. She has a BS in atmospheric science from Purdue and a JD from Indiana University.

Bruce Buchanan

Landowner, Benton County

Born and raised in the Benton County area, Buchanan graduated from Oxford High School and has an accounting degree from the University of Kentucky. Along with his son, Allen, he farms several thousand acres of his fourth-generation family farm in Benton County. Buchanan has been chairman of the Benton County Republican party, has served on the County Council, and was a member of the original nonpartisan group of citizens that investigated the possibility of wind energy in Benton County, where the Fowler Ridge Wind Farm now stands. He currently directs the Warren County Rural Electric Board.

James Buddelmeyer

**Vice President of Purchasing NA
Gamesa Wind U.S.**

As vice president of purchasing for North America Gamesa Wind, Buddelmeyer oversees purchasing for operations, construction and services, and wind farm development. Previously he was vice president of purchasing and supply chain management for General Fasteners Company, a distributor of engineered fasteners and related hardware for the automotive, heavy truck, and industrial markets. Before that, Buddelmeyer spent nearly three decades in leadership roles with ArvinMeritor, a Tier 1 global automotive supplier to original equipment manufacturers for light vehicle and heavy truck products. He is a graduate of The Ohio State University.

Pam Butler

**Sales Representative
Advantage Title, Inc.**

Having started at the ground level in the title industry in 1996, Butler is now responsible for sales and marketing for Advantage Title, Inc., a Lafayette-based company that has expanded to serve the northwest Indiana wind industry. In addition to residential and commercial purchase and refinance transactions, Butler plays an active role in coordinating title-related services for wind farm developers. Butler has more than 20 years experience in the real estate industry and is a member of the American Land Title Association, Indiana Land Title Association, Lafayette Regional Association of Realtors, and Lafayette Christian Association of Real Estate Professionals.

Tom Cervone

**Director of Environmental Services
Bernardin Lochmueller & Associates**

As director of environmental services and a board member for Bernardin Lochmueller & Associates, an engineering and environmental services firm, Cervone understands the importance of finding environmentally sensible solutions for both human and natural environments. His interest in bats stems from his work on the expansion of Interstate 69 from Indianapolis to Evansville; through that

project, he has helped ensure that Indiana bat nesting sites will not be affected. Cervone serves on the advisory board of the Indiana State University Center for North American Bat Research Conservation and belongs to the Midwest Bat Working Group.

A quality professional with two decades of experience, Charles has worked in wind energy since 2000. Starting in Germany, then moving throughout Europe and to India, he has helped to launch 52 manufacturing operations around the globe. Now in the United States, Charles is applying his expertise in design, wind farm realization and service, and quality methodologies and innovations through his renewable energy consulting firm INWind LLC. He has a BS in organizational management from St. Joseph's College and an AS from Lees College, along with numerous quality certifications.

Chade W. Charles
Renewable Energy Consultant
INWind LLC

Since joining the IUPUI faculty in 1990, Chen has conducted research in wind energy, advanced manufacturing, system simulation, product information management, and integration of CAD/CAE/CAM and biomechanics. Chen has published numerous technical papers in refereed journals and conference proceedings, has served as a reviewer for NSF review panels for four years, and also has served as reviewer for several professional journals. Additionally, Chen has consulted with Ford Motor Company; Ryobi Die Casting Company; Delco Remy International; and Woodard, Emhardt, Moriarty, McNett & Henry LLP. He holds a PhD from Drexel University in mechanical engineering.

Jie Chen
Professor and Chair of Mechanical
Engineering
Professor of Orthodontics
IUPUI

As general manager for the Richard G. Lugar Center for Renewable Energy, Cline builds strategic partnerships with industry and government stakeholders, oversees outreach and marketing activities such as the Lugar Center Renewable Energy Forums, coordinates fund raising and grant proposals, and serves as project manager for lithium-ion battery, fuel cell, and electric vehicle research and education projects. A founding member of the Lugar Center Policy, Economics, and Law Working Group and staff mentor to the IUPUI Energy Club, he has a master's degree in public affairs and a BA in political science, both from Indiana University.

Kyle Cline
General Manager
Richard G. Lugar Center for
Renewable Energy

An attorney and CPA, Conrad works on transactions throughout various company stages, including formation, capital raising, contractual negotiations, and mergers and acquisitions. He also represents numerous companies and municipalities in obtaining and structuring federal, state, and local economic development incentives. Active in the renewable energy industry, Conrad assists domestic and international companies in navigating energy-related incentives. He also has structured numerous financing transactions, including complex credit and collateral arrangements and tax credits. In 2005, Conrad served as assistant legal counsel to the Indiana Senate during the Legislative Session. He has a JD from Indiana University.

Matthew E. Conrad
Associate
Krieg DeVault LL

Tom Conway Jr. is the Regional Program Manager for the BlueGreen Alliance in Illinois and A member of the United Steelworkers, Conway has a background rooted in union activism and green-jobs training. He previously worked for the USW's Institute for Career Development, promoting education in energy efficiency and renewable energy. In 2009, he joined the BlueGreen Alliance as regional program manager of the Labor Climate Project in Indiana and Illinois. A national partnership of labor unions and environmental organizations dedicated to expanding the number and quality of jobs in the clean energy economy, BlueGreen was launched by the United Steelworkers and Sierra Club in 2006.

Tom Conway
Regional Program Manager
BlueGreen Alliance

Cotton's interest in renewable energy began in 2000 when he moved to southeast Grant County to live off the grid. Since then, he has installed several of the premiere small wind and solar installations in Indiana. Cotton is a partner in ECI Wind and Solar, which specializes in wind, solar photovoltaic panels, and solar thermal systems. He also is a board member with the Indiana Renewable Energy Association, a nonprofit organization educating consumers about the benefits of renewable energy. Cotton has bachelor's and master's degrees from Ball State University and is currently a PhD candidate at Purdue University.

Eric Cotton
Partner
ECI Wind and Solar
Board Member
Indiana Renewable Energy Assoc.

Noel Davis

**Owner
Vela Gear Systems**

Davis is founder and owner of Vela Gear Systems, which manufactures large wind turbine gears. Previously he was chief operating officer and a stakeholder of Brad Foote Gear Works in Chicago, where he led the installation of a 250,000 square-foot facility to manufacture large wind turbine gears. Davis has a 25-year career in manufacturing operations, is an expert at implementing operating improvements in manufacturing, and is certified in lean manufacturing and Six Sigma by the University of Tennessee. A graduate of the U.S. Naval Academy at Annapolis, Maryland, he also has an MBA from Marymount University in Virginia.

Ralph Diehl

**Product Manager
PowerWind**

Born and raised in Stuttgart, Germany, home of Porsche and Mercedes Benz, Diehl received an engineering diploma from Karlsruhe Institute of Technology in southern Germany. After gaining wind project management experience in Germany and Poland, Diehl became product manager for PowerWind GmbH, a German manufacturer and service provider of wind turbines based in Hamburg and Bremerhaven. Begun in 2006, the company installed its first prototype in Germany in 2007 and is positioning itself for expansion into the United States. In his position with PowerWind, Diehl is responsible for product and international business development, including the U.S. market.

Will Ditzler

**President and CEO
JFNew**

Ditzler is president and CEO of JFNew, a leading ecological consulting and restoration firm with eight offices in Indiana, Illinois, Michigan, Ohio, Colorado, and Wisconsin. In addition to consulting and restoration services, JFNew also has a native plant nursery in northern Indiana on more than 100 acres. Ditzler is a member of the American Wind Energy Association Siting Committee and a board member of the Indiana Natural Resources Foundation and the Indiana Heritage Trust. He holds a BS in finance from Indiana University and a certificate in executive management from the University of Notre Dame.

Pam Fisher

**Director, Regulatory Affairs
Indiana Economic Development
Corporation**

Fisher is responsible for promoting the state and facilitating regulatory compliance with current and prospective companies in Indiana. She serves as IEDC's lead project manager for FASTeam, which targets Shovel Ready Sites and high-priority economic development projects with significant and complex environmental permitting, transportation infrastructure, and regulatory compliance issues. She also serves as proxy for the Secretary of Commerce on the Indiana Department of Environmental Management's Air Pollution Control, Water Pollution Control, and Solid Waste Management boards. Fisher has an MBA from Anderson University and a BA and MA from Ball State University.

Patrick Fullenkamp

**Director of Technical Services
Global Wind Network**

A seasoned manufacturing executive with experience in operations, engineering, product development, project management, quality management, and global supply chain management, Fullenkamp spent 37 years with Delphi before joining the Global Wind Network. In his current position as director of technical services, Fullenkamp supports manufacturing and wind-energy related firms, including wind turbine OEMs and first tier manufacturers. He also is helping to develop the Global Wind Network's on-site supplier qualification process for turbine component manufacturers. Fullenkamp has a BS in mechanical engineering from General Motors Institute and an MS in manufacturing management from Kettering University.

Colm Gallagher

**Director of Global Marketing
Carlisle Industrial Brake and Friction**

Colm Gallagher oversees international marketing for Carlisle Industrial Brake and Friction, a provider of high-performance braking solutions for companies around the globe. Today, the company supplies next-generation brakes, friction, and hydraulic systems to leading wind original equipment manufacturers. Before joining Carlisle, Gallagher held positions in sales and marketing for Bank of America Securities and on PPG's wind energy business development team. He holds an MBA from the Kelley School of Business at Indiana University, an MA in central Asian studies from IU, and a BA in Slavic languages and literature from Northwestern University.

Mike Graska

**Construction and Logistics
Global Wind Network**

Graska possesses more than 25 years of international transportation and logistics experience with expertise in wind farm logistics, project cargo, international freight forwarding, intermodal freight, ocean/air freight, and import/export regulations. He has managed wind energy projects in North America, Europe, India, and China.

In his position with the Global Wind Network, Graska provides business and technical support to wind-related companies and works with leading construction and logistics companies to identify service providers' capacities and competencies. He has an MBA from Cleveland State University, a BA in international business from Capital University, and a logistics management certification from Georgia Tech.

Nationally known for his research on energy markets and the economic impact of Wal-Mart, Hicks came to Ball State from the Air Force Institute of Technology's Graduate School of Engineering and Management at Wright-Patterson Air Force Base in Dayton, Ohio, where he was associate professor of economics. Hicks earned doctoral and master's degrees in economics from the University of Tennessee and a bachelor's degree in economics from the Virginia Military Institute. He also holds the rank of lieutenant colonel in the U.S. Army, having served since 1984 in North Africa, Southwest Asia, Korea, and Japan.

A Zionsville, Indiana, attorney, Hoffman has long been an advocate for the small business community. In 2003, she created HB Capital, which joined forces with the Community Bankers Association of Indiana to secure \$19.5 million in tax credits for state employers, ultimately resulting in 400 new jobs across Indiana. Currently Hoffman directs business development for the Wind Energy Manufacturers Association, Inc. (WEMA), which seeks to attract new wind energy manufacturing opportunities to Indiana through networking with economic development organizations, the state of Indiana, and various communities and chambers of commerce.

Hoffman is a partner in the law firm Krieg DeVault LLP in Indianapolis, Indiana, with offices in Chicago, Illinois, and Atlanta, Georgia. Co-chair of the firm's committee on the American Recovery and Reinvestment Act of 2009 (ARRA), he has obtained more than \$28 million in ARRA economic development incentives and \$53 million in permanent financing for Indiana start-up wind turbine component part manufacturers since 2009. Hoffman has a JD with a taxation specialty from Indiana University and a BA in economics from Depauw University. He was named one of Indiana's Super Lawyers for 2009-10.

As assistant commissioner for Public Health and Preparedness with the Indiana State Department of Health, Dr. Howell oversees daily operations of the Epidemiology Resource Center, Office of Primary Care, Lead and Healthy Homes Program, HIV/STD Program, Tuberculosis and Refugee Program, Immunization Program, Environmental Public Health, and Preparedness Program. Howell received his DVM from Purdue University and his master's in public health from the University of Michigan. He is a diplomate of the American College of Veterinary Preventive Medicine and a member of the National Association of State Public Health Veterinarians.

James is currently sales and marketing director for Murray and Trettel, Inc., a meteorological consulting firm, and for Windy City Green Power, LLC, a company marketing portable bases for small wind turbines on landfills, brownfields, and for temporary installations. James has a bachelor's degree in meteorology from Parks College of St. Louis University and a master's degree in environmental policy from Indiana University. He began his career as a weather officer for the Air Force at Keesler Air Force Base in Biloxi, Mississippi, and spent 20 years as a weather anchor and reporter for WRTV in Indianapolis.

Jon Kreucher concentrates his practice in energy and utilities, business and corporate law, real estate, and litigation for the law firm of Howard & Howard. A decade of his 17-year legal career has been spent providing inside counsel to Fortune-500 telecommunications companies, including Comcast. Now in addition to his legal work in telecom, he also represents independent power producers, renewable generators of electricity, utility customers, and landowners who have been approached by utilities. Kreucher has a JD from Thomas M. Cooley Law School and a bachelor's degree from the University of Michigan with concentrations in communications, economics, and business.

Michael J. Hicks

**Director of Center
for Business and Economic Research
Ball State University**

Catherine Hoffman

**Director of Business Development
Wind Energy Manufacturer's
Association, Inc.**

Frank Hoffman

**Partner
Krieg DeVault LLP**

James F. Howell D.V.M.,

**M.P.H., Diplomate, ACVPM
Assistant Commissioner
Public Health and Preparedness,
Indiana State Department of
Health**

David James

**Sales and Marketing Director
Murray and Trettel, Inc., and
Windy City Green Power, LLC**

Jon Kreucher

Howard & Howard

Tony Kuykendall
BDM Wind Power
Performance Services

Previously a licensed financial consultant with National City Investments, Kuykendall was recruited in 2007 to Performance Services, a design-build engineering and construction company specializing in creating sustainable and optimal environments through energy-saving solutions for new construction and renovation of schools and universities. As business development manager, Kuykendall focuses on K-12 school renovations and wind power solutions. A graduate of Hanover College with a bachelor's degree in business administration, Kuykendall is a service member and exhibitor with the Indiana Association of School Business Officials, Indiana Association of Public School Superintendents, and the Indiana School Board Association.

Lisa Laughner
Program Director
Conexus Indiana

As program director for Conexus Indiana, a statewide economic development organization, Laughner leads the Indiana Supplier Insight procurement portal project. She also spearheaded the launch of Conexus Indiana in 2007 as an executive on loan from Rolls Royce. Formerly vice president for Rolls-Royce Corporate Ventures, Laughner has more than 20 years' experience in program management, process improvement, and engineering in the aerospace industry. She also has served in leadership and advisory board roles for three startup companies. Laughner has a degree in mechanical engineering from Purdue University and an MBA from Open University in Milton Keynes, England.

Marc Lewis
Vice President
External Relations
Indiana Michigan Power Co.

As I&M's vice president of external relations, Lewis oversees state government relations and environmental relations in both Indiana and Michigan. Previously, he was AEP's assistant general counsel for legal-regulatory services, administering regulatory activities in the Indiana, Michigan, Oklahoma, Louisiana, Arkansas, and Texas jurisdictions. Lewis serves on the boards of directors for the Indiana Energy Association, Indiana Manufacturers Association, and Indiana Fiscal Policy Institute. He also chairs the Utility Law Section of the Indiana State Bar Association. Lewis earned a JD from The Ohio State University and an economics degree from the University of Kentucky.

Paul F. McGlynn
General Manager
PJM System Planning Division

As general manager of system planning for PJM Interconnection, a regional transmission organization that manages the high-voltage electric grid and the wholesale electricity market for 13 states and the District of Columbia, McGlynn is responsible for development of the Regional Transmission Expansion Plan, interregional planning, and analysis of the interconnection process. Before joining PJM, Mr. McGlynn held various positions in engineering and operations at Exelon. He earned a BS in electrical engineering from Penn State and an MS in electrical engineering from Drexel University. He is a registered professional engineer in Pennsylvania.

Chad Martin
Renewable Energy Extension
Specialist in Agricultural and
Biological Engineering
Purdue University

Martin began working in renewable energy at the Illinois Institute for Rural Affairs (IIRA) at Western Illinois University, where he supported IIRA's Illinois Wind project and worked with the Agriculture Community Action Program on biofuels production operations. In his current position with Purdue University, Martin works with producers, small businesses, Purdue faculty and extension educators, and state and federal government agencies to deliver programs on wind energy development, agricultural energy efficiency, and biomass energy resources. Martin has a BS in agriculture from Western Illinois University and an MS in agricultural and extension education from Purdue University.

Jeff McPherson
Vice President/General Manager
Indiana Northwest Region
Irving Materials, Inc. (IMI)

As vice president/general manager of the Indiana Northwest Region for Irving Materials, Inc., McPherson has spent the past three years working with owners and developers on such wind energy projects as Hoosier Wind Farm, Meadow Lake, and Fowler Ridge to support their ground-level construction needs and direct the placement of concrete and aggregate materials that anchor hundreds of wind turbines at these developments. A Butler University graduate, Jeff is president of the Board of Directors for the Indiana Ready Mixed Concrete Association and a board member of the Build Indiana Council.

Travis Murphy
Program Manager
Renewable Energy
Indiana Office of Energy Development

Since graduating from Indiana University, Murphy has spent more than six years with the state of Indiana in various roles within the Department of Natural Resources, the Department of Environmental Management, and now the Indiana Office of Energy Development (OED). As part of the lieutenant governor's suite of agencies, the OED is responsible for devising and implementing the state's energy strategy known as the Hoosier Homegrown Energy Plan. In his position, Murphy oversees business development, moderates

several energy-related working groups, aids in tradeshow development, contributes to regional renewable energy collaborations, and manages the state's renewable energy incentive programs.

Neil has been in the foundry industry for more than 37 years, beginning his career with The Wheland Foundry Division of North American Royalties and working his way up to general manager of various plants in Tennessee and Georgia. Since 1998, he has been president of ATI Casting Service, which manufactures large grey and ductile iron castings in Indiana and Michigan. A member of the American Foundry Society, Neil is past chairman of the AFS Tennessee Chapter and current board member of the AFS Northern Indiana Chapter and the Indiana Cast Metals Association.

David R. Neil
President
ATI Casting Service

A long-time resident of Monticello, Neininger is economic development director for White County and executive director of the White County Economic Development Organization, where she seeks to foster economic growth through collaboration between White County's cities and towns. She also has served as an advisor and treasurer of the BioTown USA Development Authority since its inception in 2006. A member of the Monticello Kiwanis Club, the Greater Monticello Chamber of Commerce, the Monon Chamber of Commerce, and the White County Economic Action Team, Neininger also coordinates the Western Indiana Sustainable Energy region.

Connie M. Neininger
Economic Development Director
White County Economic
Development Organization

Newton graduated from Purdue University with a bachelor's degree in agricultural education. In 2006, she began working in the accounting department at New Holland Rochester, Inc., which markets farm and industrial equipment and supplies parts and service. Three years later, the company became a dealer of Bergey WindPower after installing a Bergey WindPower BWC Excel turbine. Now, along with her accounting responsibilities, Newton also assists in the sales of wind turbines, coordinating field trips and giving presentations to local schools and community organizations on the benefits and logistics of wind power.

Regan Newton
Dealer
New Holland Rochester, Inc.

O'Brien has more than 20 years of experience in government and private enterprise, with expertise in governmental relations and public policy, business development, project design, and construction management. After serving in the United States Marine Corps, O'Brien graduated from Washington University and completed his studies in Paris, France, where he then worked for Deloitte & Touche. O'Brien also worked for the senior U.S. Senator in the state of Missouri and as deputy commissioner for strategic planning in Chicago. Currently he serves as Great Lakes project director with NRG Bluewater Wind LLC, an offshore wind energy developer.

Mike O'Brien
Project Director,
Great Lakes Region
Bluewater Wind

Ochs' primary practice concentration is in real estate law, including real estate development, land use and zoning, leasing, and real estate finance. He serves on the firm's agriculture law and green initiatives and has substantial experience in renewable energy projects, including wind and solar farms. Ochs has spoken at several seminars by the Indiana Continuing Legal Education Forum, the National Business Institute, and the Professional Education Systems Institute, and was chair of the Indiana Continuing Legal Education Forum's 2009 Annual Real Estate Institute. He has a JD from Indiana University and a BS in civil engineering from Purdue University.

Timothy Ochs
Partner
Ice Miller, LLP

In 2007, Porter began installing renewable energy systems with ECI Wind and Solar, a Fairmount, Indiana-based renewable energy company specializing in wind, solar photovoltaic panels, and solar thermal systems. Since then, he has been involved in around 20 wind turbine installations, most from the foundation up, ranging in size from 200 watts to 20 kilowatts. Porter is certified in solar PV installation by the North American Board of Certified Energy Practitioners. He also teaches a renewable energy systems technology course at Ivy Tech Community College of Indiana, providing students with hands-on experience in assembling and installing windmills.

Craig Porter
ECI Wind and Solar

Kent Powell
Regional Marketing Manager
Amatrol, Inc.

As regional marketing manager for Amatrol, Inc., an interactive technical education provider, Powell consults with educational and industrial clients on multimedia and print training materials for a wide variety of program areas, including wind turbine, solar, and other green energy technologies. Before that, Powell was partner and owner of software integration company I/Gear, Inc., whose products focused on increasing the efficiency of automation systems in the automotive, forest products, and food processing industries. Powell also spent 17 years at Rockwell Automation. He has an associate's degree in electronic technology.

Sara C. Pryor
Provost Professor of
Atmospheric Science
Indiana University

In addition to her position at IU as Provost Professor of Atmospheric Science, Pryor also is a visiting distinguished professor at the University of Aarhus in Denmark and a visiting senior scientist at the Risø National Renewable Energy Laboratory in Denmark. The author of more than 90 articles, Pryor has also edited *Understanding Climate Change: Climate Variability, Predictability, and Change in the Midwestern US*. She is currently consulting with the International Atomic Energy Authority (IAEA) on links between climate change, extreme events, and critical energy infrastructure again with a focus on the wind energy industry.

Manzar Rahman
Manager, Transmission Interstate
Planning (TIP)
American Electric Power

Rahman manages Transmission Interstate Planning at American Electric Power in Gahanna, Ohio, assisting with the transmission planning process for AEP's joint venture projects as well as AEP's 765 kV system. Rahman earned bachelor of science and bachelor of engineering degrees from Karachi University, a master's degree in power engineering from Clarkson University, and a master's degree in industrial engineering from Columbia University. He has authored and co-authored several papers published by the Institute of Electrical and Electron Engineers (IEEE), the International Council on Large Electric Systems (CIGRE), and other industry organizations.

Dale Reckman
Director of Field Services
Global Wind Network

A seasoned manufacturing executive with extensive experience in the wind industry, Reckman has more than 25 years of experience in operations, engineering and product development, estimating, sales and project management, procurement, and supply chain management. In his position with Global Wind Network, Reckman is responsible for developing the manufacturing capabilities of emerging wind-energy supply chain companies through on-site profiles, coaching and referrals. Before joining Great Lakes WIND Network, Reckman was vice president of the Commercial Products Group for Magna Machine Company, a supplier to major wind power OEMs, and an owner of AR Industries.

Kris Ruud
Manager, Resource Integration and
Regional Operations Engineering
Midwest ISO

Ruud has been with the Midwest Independent Transmission System Operator since 2001. As manager of resource integration and regional operations engineering, he oversees integration of new resources into the Midwest ISO footprint while also managing real-time operations engineers in the western region. With the rapid expansion of wind resources in the Midwest ISO in recent years, integration has become increasingly challenging, necessitating the development of new processes and procedures.

Justin Schneider
Staff Attorney
Indiana Farm Bureau, Inc

As staff attorney with Farm Bureau, Inc., Schneider oversees environmental and energy issues with a focus on regulatory affairs, serves as a registered lobbyist in both the executive and legislative branches, and provides staff support for the Indiana Agricultural Law Foundation. His work has recently focused on energy issues, such as wind energy, pipelines, and climate change. Schneider grew up on a grain and livestock farm in south central Indiana, where he continues to work with his family. He received his BS from Purdue University in agribusiness management and his JD from Indiana University.

Paul Seppanen
President
Energy Maintenance Service, LLC
(EMS)

As president of Energy Maintenance Service, LLC (EMS) a Broadwind Energy company, Seppanen oversees safe and customer-focused operations within the field services and remanufacturing teams and all divisional support functions. He is active in wind industry groups that are pursuing long-term availability improvement, along with O&M cost savings, through lifetime extension of critical turbine components. Seppanen's career has included sales, finance, and operations leadership roles in construction, services, and remanufacturing organizations focused on the renewable energy and semiconductor manufacturing industries. He has a BS in engineering from Worcester Polytechnic Institute and a master's in engineering from Stanford University.

Seybold graduated from Ball State University with a degree in anthropology, but took additional coursework in architecture, manufacturing, engineering, and photography. After working as a museum curator, historic property preservationist, and new home builder with a focus on energy-efficient and recycled building materials, Seybold went to work for the Cope Environmental Center, where he redeveloped the property and created a sustainable living demonstration home onsite. Today, as owner of Ecologic Constructions Technologies, Seybold helps his clients incorporate sustainable concepts into new and existing homes while also consulting with Habitat for Humanity on green construction techniques.

Phil Seybold
Ecologic Constructions Technologies
and Cope Environmental Center

Becky Skillman is serving her second term as the 50th lieutenant governor of Indiana. Since 2005, she has managed five state agencies with operating budgets totaling \$1 billion — the Indiana State Department of Agriculture, the Office of Energy Development, the Indiana Housing and Community Development Authority, the Office of Community and Rural Affairs, and the Office of Tourism Development. Additionally, she chairs the state's Counter Terrorism and Security Council and serves as president of the Indiana Senate.

Becky Skillman
Indiana Lieutenant Governor

Before being elected as the first female lieutenant governor in Indiana, Skillman served in the Indiana Senate, where she led the charge to include the state's small towns and rural communities in its economic development agenda. Skillman also held elected offices in Lawrence County for 16 years and served as president of the Association of Indiana Counties.

Slaven is program chair for Sustainable Energy at Ivy Tech Community College in Lafayette. The first program in the state to train technicians on the design, installation, operation, and maintenance of renewable energy systems, Sustainable Energy is designed to provide wind turbine companies, wind park developers, residential systems installers, and power companies with a qualified green workforce for a growing industry. Slaven has a PhD in forestry and natural resources from Purdue University with a specialty in wood waste residues and technical training.

Isaac Slaven
Program Chair, Sustainable Energy
Ivy Tech

As leader of the Manufacturing Extension Partnership (MEP), a business unit of the Purdue Technical Assistance Program (TAP), Snow has grown MEP from two to nine offices and tripled its staff, subcontractors, and service partners. Currently, staff members serve more than 400 companies a year, focusing on top and bottom line impact to grow and sustain businesses, primarily within the manufacturing sector. Snow has a BS from Indiana State University, is a certified ISO9000 lead assessor, and has worked in the aerospace defense electronics industry, federal laboratory technology transfer, and manufacturing economic development.

L. David (Dave) Snow
Director
Manufacturing Extension Partnership
Purdue University

As executive director of the nonprofit organization Wind on the Wires (WOW), Soholt works with nonprofit environmental organizations, tribal representatives, wind developers, wind turbine manufacturers, and businesses that provide goods and services to the wind industry to overcome barriers to bringing wind power to market. Specifically, she directs technical and transmission planning, state regulatory proceedings, legislative education, and outreach. A graduate of Hamline University Law School in St. Paul, Minnesota, Soholt also has a BA from Luther College in Decorah, Iowa. She holds a seat on the Midwest Independent System Operator Advisory Committee representing the environmental sector.

Beth Soholt
Executive Director
Wind on the Wires

As vice president of energy marketing at Invenergy LLC, a developer, owner, and operator of large-scale renewable energy and other clean power generation facilities in North America and Europe, Thompson oversees energy marketing efforts in the United States and Canada. He has more than 20 years of experience in the energy and utilities industry, including business development, project development, and project management. He has led the marketing and development efforts of numerous large-scale, clean energy power projects in both wind and thermal businesses. Thompson holds an MS and a BS in mechanical engineering from the University of Illinois.

Dan Thompson
Vice President, Energy Marketing
Invenergy LLC

Robert W. Thompson, Jr.
Director
Porter County Plan Commission

Thompson has worked for Porter County for two decades, serving from 1989 to 1997 as assistant county engineer, from 1997 to 2002 as director of the Porter County Plan Commission, and again from 2003 to the present as director of the plan commission. Thompson has a bachelor's degree in construction technology from Purdue University and a master's degree in city and regional planning from Illinois Institute of Technology. He is secretary of the executive board for the American Planning Association/Indiana Chapter and is a member of the American Institute of Certified Planners.

Keith Trent
Group Executive and President,
Commercial Businesses
Duke Energy

As group executive and president of the Commercial Businesses organization for Duke Energy, Trent oversees Duke Energy Generation Services, which includes the wind generation business; Midwest nonregulated generation; DukeNet, a telecommunications business; and Duke Energy International, with operations in Latin America. Previously, Trent served as group executive and chief strategy, policy, and regulatory officer for Duke Energy. Trent earned a BS in electrical engineering from Southern Methodist University and a JD from the University of Texas. He also completed the Harvard Business School Advanced Management Program and the Reactor Technology Course for Utility Executives at MIT.

Don Villwock
President
Indiana Farm Bureau and Indiana
Farm Bureau Insurance

Villwock, whose Edwardsport, Indiana, farming operation produces white corn, soybeans, seed soybeans, and popcorn, became president of Indiana Farm Bureau and Indiana Farm Bureau Insurance in 2002. A graduate of Purdue University with a degree in agricultural economics, Villwock is a member of the American Farm Bureau board of directors and the executive committees of the Farm Bureau Bank, American Agricultural Insurance Company, and American Farm Bureau Insurance Services, Inc. He also is a member of the 25 x '25 Ag Energy Working Group, a national task force promoting the use of renewable fuels.

Tom Weaver
Manager
Grid Management Deployment
American Electric Power

A registered professional engineer, Weaver has been with American Electric Power (AEP) for three decades. His first 23 years were at Kentucky Power Company, where he worked in engineering, metering, communications, customer service, and line supervision. In 2000, he transferred to the AEP Service Corporation in the Distribution Planning function, and then in 2007 became manager, Distribution Capacity Planning. Since 2009, Weaver has helped develop deployment plans for gridSMART Technologies on the AEP distribution system as manager of Grid Management Deployment. He has a BSEE from West Virginia University and an MBA from Morehead State University.

Greg Winkler
Director of Project Development
Brevini Wind USA

Winkler has worked as an engineering consultant for 14 years with regional and national firms developing \$1.8 billion in public and private projects. The most notable of these projects include the design-build of the Salt Lake City I-15 corridor for the 2002 Winter Olympics, the Federal Courthouse in Las Vegas, the expansion of the Las Vegas Convention Center, and the nearly-completed Colorado River crossing just south of Hoover Dam. After returning to Indiana, Winkler founded Lead Climber, LLC, to promote economic development in Anderson, Indiana. Since 2008, he also has directed project development for Brevini Wind USA, Inc.

Barry Wood
Assessment Division Director
Indiana Department of Local
Government Finance

As Assessment Division director for the state of Indiana's Department of Local Government Finance, Wood oversees real property assessments, including large industrial facilities; statewide assessment of public utility property; and local assessing official training. Previously, Wood was practice group specialist with the law firm Ice Miller in Indianapolis, Washington Township assessor and deputy assessor in Marion County, and director of the IOSHA Public Sector Division for Indiana. He has a BA in political science from and an MBA from Butler University. He is a Level III state certified assessor/appraiser, a certified tax representative, and a licensed real estate broker.

Bob Zavadil
Executive Vice President and
co-founder
Power Systems Consulting

As executive vice president and co-founder of Power Systems Consulting, Zavadil is responsible for developing and overseeing EnerNex Corporation's power system engineering and consulting business. A nationally recognized expert in electric power system issues for wind generation, he works with a wide range of wind industry clients from turbine designers and manufacturers to project developers and operators, along with transmission service providers and independent transmission system operators. Zavadil has a BS in electrical engineering South Dakota State University. His expertise includes power systems analysis, wind generation, wind integration, distributed generation, modeling, and simulation.

WIndiana 2010 Conference – Notes

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About OED: The Office of Energy Development (OED) was created in December 2005 as an extension of the Indiana energy office. Under the leadership of Lt. Governor Becky Skillman, OED is responsible for the state's energy policy. As Indiana's State Energy Office, OED administers grant and other energy related funding that comes to Indiana as part of the American Recovery and Reinvestment Act. OED has established partnerships on a state level in order to promote the use of local resources such as clean coal and agricultural products. These local resources are used to create energy in the form of electric generation, synthetic natural gas and alternative transportation fuels. Under the leadership of Lt. Governor Becky Skillman, OED works with stakeholders in a variety of industries to maximize jobs and economic vitality by being a hub for energy development.

About the Energy Center: Purdue University's Energy Center is located within Discovery Park, a \$400 million research and learning complex of 11 dynamic centers where more than 1,000 faculty members and 3,000 students engage in interdisciplinary projects addressing the world's grand challenges. The Energy Center is specifically focused on efficient use of petroleum and natural gas resources, the invention of clean coal technologies, and the transition from fossil fuels to a mix of solar, wind, bio, and nuclear energies. Since its inception in 2005, researchers have been advancing technologies and policies related to energy research while helping to educate the next generation of energy specialists.

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