



Indiana Renewable Energy Conference

Indiana Convention Center • Exhibit Hall B • Indianapolis, IN • Wednesday, July 20

IREC Workshops

Hosted by the Indiana Renewable Energy Association (INREA)

Welcome **Chris Rohaly**, President, INREA

9:00–10:30 a.m. Workshop 1: Solar Photovoltaics

This session provides information on the basics of solar photovoltaic energy production in a smaller setting. Included in this session: equipment types • figuring out costs and payback • installation tips/zoning issues • interconnection and net metering

Moderator: **Chris Rohaly**, President, Green Alternatives, Inc.; President, INREA

Panel: **Brad Morton**, President, Morton Solar & Wind

Jeremy Coxon, Sales Manager, Sunwise Technologies, Inc.

Gordon Moore, Vice President, McCormick Motors, Inc.

10:30–noon Workshop 2: Solar Thermal

This session provides information on the basics of solar thermal energy (solar hot water) production in a smaller setting. Included in this session: equipment types • figuring out costs and payback • installation tips/zoning issues

Moderator: **Travis Murphy**, Business Development Manager, Energy Solutions by JMS; INREA Board

Panelists: **Don Crawmer**, Vice President for Research and Technology, Solar America Solutions

Leon Bontrager, President, Home Energy LLC

Noon– 1:30 p.m. Workshop 3: Small Wind

This session provides information on the basics of wind energy production in a smaller setting. Included in this session: equipment types • figuring out costs and payback • installation tips/zoning issues • interconnection and net metering

Moderator: **Jim Straeter**, Owner, New Holland Rochester, Inc.

1:30–3:30 p.m. Workshop 4: Geothermal

This session provides information on the basics of solar photovoltaic energy production in a smaller setting. Included in this session: equipment types • figuring out costs and payback • installation tips/zoning issues • interconnection and net metering

Moderator: **Chris Maher**, Owner, Energy Outfitter; INREA Board

Panelists: **Dennis Meyer**, Director, Climate Master

Mike Kapps, Vice President Commercial Public Sector and International Sales, WaterFurnace International, Inc.

Dan Welklin, Energy Consultant, Precision Comfort Systems

3:30–5:00 p.m. Workshop 5: Innovations in Renewable Energy (Held in Room 124)

This session deals with the latest innovations in renewable energy technologies. Included in this session: Hydrogen from aluminum, personal power plant, microhydroelectric, home CNG fueling

Keynote speaker: **Ed Begley, Jr.** will discuss his own experiences with incorporating renewable energy technology into his own home.

Moderator: **Patrick Flynn**, Program Manager for Renewables, Indiana Office of Energy Development

Panelists: **Ed Begley Jr.**, Actor and Environmentalist

Kurt Koehler, CEO, AIGalCO

Rob Lykins, President, Productive Concepts, Inc.

David Ramos, Vice President of Sales, Abundant Energy Works

Kellie Walsh, Director, Greater Indiana Clean Cities Coalition

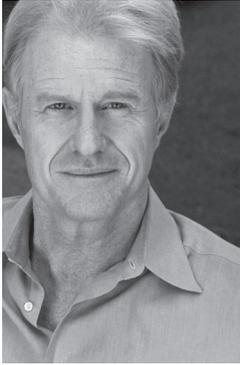
Registration for the workshop sessions comes with access to the WIndiana/IREC exhibition in Hall B. The Exhibit Hall will be open from 8 a.m. to 9 p.m. on July 20 and from 8 a.m. to 3 p.m. on July 21. *Retain your registration badge for entrance to all workshop sessions and the exhibition floor.*



IREC 2011 Speaker Biographies

Ed Begley Jr.

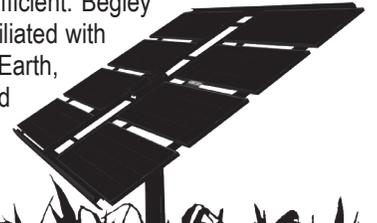
Actor, Activist



Ed Begley Jr. was inspired by his Academy Award-winning father to become an actor. His big break came along when he was cast as Dr. Victor Ehrlich on the long-running, hit television series, "St. Elsewhere," for which he received six Emmy nominations and a Golden Globe nomination. Begley's feature film credits include "Pineapple Express," "A Mighty Wind," "Best In Show," "For Your Consideration," "Batman Forever," "The Accidental Tourist," "The In-Laws" and many others. On television, Begley had recurring roles on "The New Adventures of Old Christine" and "CSI: Miami" for the Network. Additional television credits include "Six Feet Under," "Veronica Mars," "7th Heaven," "Arrested Development" and "Boston Legal." He has also starred on stage in the West Coast premiere of David Mamet's "Cryptogram" at the Geffen Playhouse. In addition to acting, Begley has also spent some time behind the camera, directing several episodes of "NYPD Blue."

In 2007, the television reality show "Living With Ed" debuted and followed the activities of Begley Jr. as he worked towards making his home more energy efficient. Begley

Jr. received the Thomas Alva Edison award that same year for ecological advocacy, and he is affiliated with several environmental organizations, including The American Oceans Campaign, Friends of the Earth, and the League of Conservation voters. Well known for his environmental affairs, he produces and sells an all-natural household cleaning product called "Begley's Best." His home in Hollywood is solar powered and his bicycle is his primary mode of transportation.



Leon Bontrager

President, Home Energy, LLC

Leon Bontrager owns and operates Home Energy, LLC, which has been in business since 2000. He specializes in grid-tie and off-grid solar and wind systems, solar thermal systems and battery back-up systems utilizing power inverters. The company is a full-service renewable energy contractor stressing education, sales, installation and service. Leon has worked with both Northern Indiana Public Service Company (NIPSCO) in northern Indiana and American Electric Power (AEP) in southern Michigan to install the first several net metering solar systems in their areas. He worked with both utilities to help them create their net metering contracts. Home Energy installed the first five net metering facilities in the Michiana region and continues to be a leader in all renewable energy installations in this region. Bontrager is one of seven North American Board of Certified Energy Practitioners (NABCEP) certified solar PV installers in the state.

Jeremy Coxon

Sales Manager, SunWize Technologies, Inc.

Jeremy Coxon, dealer sales manager for SunWize Technologies, has a master's degree in mechanical engineering from the University of Louisville and is a NABCEP certified photovoltaic installer and solar thermal installer. SunWize Technologies has been a premier distributor of photovoltaic equipment since 1992. Coxon is the former vice president of SunWind Power Systems, Inc., a solar and wind integration company. He has previous experience in both energy engineering and renewable energy, having worked for 15 years in a variety of energy and engineering-related employment at Rohm and Haas Inc. and Eli Lilly.

Don Crawmer

**Vice President, Research and Technology
Solar America Solutions**

Don Crawmer has more than 35 years experience in the field of heating ventilation and air conditioning (HVAC) operations and sales, including management responsibilities in manufacturing plant management. In 2004 he turned his focus to solar energy and has become a sought-after expert in the field of solar thermal energy. He has served on state-level renewable energy panels, has spoken at international HVAC expositions and has consulted with energy leaders around the state at the request of Indiana's director of the Department of Energy. As the developer of the core product marketed and sold by Solar America Solutions, an Indiana-based company, Crawmer is currently leading the research and technology efforts for this company.

Patrick Flynn

**Program Manager for Renewables
Indiana Office of Energy Development**

Patrick Flynn joined the Indiana Office of Energy Development (OED) in March of 2010 as a grants specialist providing monitoring and grant compliance of OED grantees. In addition to his grant specialist duties, Flynn is a program manager concentrating in renewable energy, vehicle technologies, and energy efficiency. Prior to joining OED, Patrick worked for New Tech Global (NTG) in Business Development as a resource manager. NTG is recognized as a global leader in upstream oil and gas consultancy services. Flynn graduated from St. Ambrose University in Davenport, Iowa with a B.A. in environmental management. He then went on to complete a Masters of Science in environmental management from Illinois Institute of Technology, and a Masters of Public Administration from the University of Colorado at Denver.

Mike Kapps

Vice President, Commercial Public Sector and International Sales, WaterFurnace International, Inc.

Mike Kapps began his career in the geothermal heat pump industry in 1983 when he joined WaterFurnace as the general manager of its LoopMaster International Division. He left in 1997 to pursue other endeavors and then returned in 2005 as the manager of business development of WaterFurnace Loop Services. In 2006, he was promoted to vice president of LoopMaster and in 2009 added duties of international and public sector sales for WaterFurnace. In between stints at WaterFurnace, Kapps served as general manager of Precision Comfort Systems, one of WaterFurnace's largest dealers, located in Westfield, Ind. He also was the director of geothermal market development at a large geothermal heat pump manufacturer in which he traveled the world from Europe to Asia to discuss international opportunities for geothermal applications.

Kurt C. Koehler

CEO, AIGaCO

Kurt C. Koehler is an international entrepreneur creating five start-up companies including two with partners in Shenzhen, China. He has traveled extensively throughout the world especially in East Asia. He holds a B.S. from the Kelley School of Business at Indiana University and a master of arts in European history. His first book is entitled *Interpretation of History: Resolution of the Current Excess*. The second book is *Divining the Future: Human Intellectual Evolution*. He is currently the founder and CEO of AIGaCo; the company with the exclusive license from Purdue University to commercialize a new technology that creates hydrogen gas on demand.

Rob Lykins

President, Productive Concepts, Inc.;
Productive Concepts International

Rob Lykins is the founder and president of Productive Concepts, Inc. (PCI), Productive Concepts International. Lykins earned a B.S. in communications and marketing at Ball State University and has been a business owner and entrepreneur since 1997. PCI continues to grow and expand with its successful entry into the alternative fuels, armored vehicle and specialty vehicle conversion markets. In 2006, Lykins served as President of the Union City Community Economic Development Committee. Lykins also serves on the Union City Chamber of Commerce Board of Directors, the Randolph Economic Development Corporation (REDC) Board of Directors, Energize ECI Regional Board of Directors and is an active community volunteer for several organizations. He is also a member of several trade organizations including National School Transportation Association (NSTA), Clean Cities USA, Hybrid Truck Users Forum (HTUF), National Truck Equipment Association (NTEA), Alternative Fuels Vehicle Institute (AFVI), Ohio Green Fuels Association, Central Indiana Clean Cities Alliance (CICCA), South Shores Clean Cities and others. In 2008 Lykins was named a Lugar Energy Patriot by Indiana Senator Richard Lugar for his company's efforts in reducing our nation's dependency on foreign oil and increasing its security through PCI's many alternative fuels projects, products and services.

Chris Maher

Owner, Energy Outfitter

Chris Maher brings over 30 years experience in the design, implementation and management of residential energy efficiency and building diagnostic projects. He is owner of Energy Outfitter; a Building Performance Contracting Company located in Westfield, Ind., and

is currently President-elect and serving on the board of the Indiana Renewable Energy Association. Maher graduated from Ball State University in 1979 with a BS in Urban and Regional Planning from the School of Architecture and Planning. Since then he has received numerous professional certifications in the building trades.

Gordon Moore

Vice President, McCormick Motors, Inc.

Gordon Moore retired as a colonel in 1997 following 23 years of service in the Army. That same year he partnered with Bernie Beer to purchase McCormick Motors, the Chevrolet dealership in Nappanee. Shortly after his arrival at the dealership, he embarked on a modernization program to update the facility, which is more than 50 years old. Along with expanding the facility to meet the demands of the growing business, he also worked to improve energy conservation and environmental practices. Over the past 15 years, the dealership has increased the building square footage by 80 percent without increasing electric consumption and while reducing natural gas consumption by 60 percent. In 2007, Moore was recognized by USA Today for his innovative energy efficiency and environmental practices.

Dennis Meyer

Director, ClimateMaster

Dennis Meyer has been involved with the design, marketing, and sales activities of HVAC equipment and electronic controls for over 20 years. After graduating from Purdue University in 1988, Meyer worked 3 years as a design engineer for United Technologies Electronic Controls developing electronic controls for the HVAC industry. Subsequently, he spent 4 years at WaterFurnace International under various roles including controls engineering manager. One of his main innovations at WaterFurnace was the Intellizone Zone Control system. Meyer then joined Franklin Electric and spent 3 years as their new product manager, where he led development programs involving variable speed motor technology. In 1997, Meyer came back to the heat pump industry with ClimateMaster International, where he has performed in multiple capacities for ClimateMaster including controls engineering manager, marketing manager, midwest regional sales manager, and most recently as director of commercial sales. Dennis has a bachelor's degree in electrical engineering from Purdue University and an M. S. in industrial/organizational psychology from the University of Saint Francis.

Brad Morton

President, Morton Solar & Wind

After obtaining his B.S. in electrical engineering technology at the University of Southern Indiana (USI) in 1992, Brad Morton received his A.S. in mechanical engineering technology at USI & Western Kentucky University in 1996. Morton is a Kentucky Solar Partnership member, a Sustainable Communities Coalition board member and an advisory board member of Project GREEN (Growing a Regional Energy Employment Network). In addition, he is a business member of both the American Solar Energy Society and Southern Indiana Renewable Energy Network (SIREN). Certified by NABCEP photovoltaic technology, Morton has 15 years of experience as an electrical engineer in the automated manufacturing and machine building industry. In 2010, he was awarded the 2010 Hoosier Environmental Council's Green Business of the Year award. Currently Morton is a USI Alumni Council member.

Travis Murphy

**Business Development Manager
Energy Solutions by JMS**

Travis Murphy is business development manager for Energy Solutions by JMS. Energy Solutions provides cradle to grave development and service for renewable energy systems for all customer classes with a focus on solar photovoltaics, solar thermal, geothermal, biomass thermal systems, and wind. Prior to his current position, he spent 7 years with the state of Indiana in various roles including program manager of Renewable Energy Development at the Indiana Office of Energy Development (OED). With OED he was charged with moving the renewable energy sector forward in Indiana through education, outreach, and economic development on behalf of the Lieutenant Governor. His work largely involved meeting with prospective businesses looking to invest money in our state in the RE sector and advising to the traditional benefits of doing business in Indiana. Previous to OED, he worked in various positions within the Indiana Department of Natural Resources, the Indiana Department of Environmental Management, and the Tennessee Valley Authority.

David Ramos

Vice President of Sales, Abundant Energy Works

David Ramos joined Abundant Energy Works (AEW) three years ago and currently serves as vice president of sales. Ramos has contributed to electrical and steam subsystems, as well as sales programs. Prior to AEW, his 20-year-career with General Motors and its subsidiaries sparked his interest in energy technology, Ramos along with his brother Randy, started Information Technology service companies to service local and enterprise customers.

Chris Rohaly

President, Green Alternatives, Inc

Chris Rohaly is president of Green Alternatives, a NABCEP-certified renewable energy company in Kokomo, Ind., which he founded in 2008. Rohaly has an electrical engineering degree from Valparaiso University and 25 years of design experience in automotive electronics. He has conducted numerous educational seminars on small wind and solar energy in Indiana, and has taught a photovoltaics continuing education class at Ivy Tech Community College in Kokomo. As current president of the Indiana Renewable Energy Association, Rohaly also organized the first-ever Solar Tour in the Kokomo-Logansport area in 2010.

Jim Straeter

Owner, New Holland Rochester, Inc.

Jim Straeter owns and operates a five-store farm equipment business. New Holland, Apache, Kinze, Krause and Woods are some of the major lines of equipment represented by the stores. Straeter is a 1973 graduate of Southern Illinois University and he has spent his entire career in farm equipment sales and product development. He holds three patents, one of which involves an innovative method of collection of corn stover for biomass use and agricultural application. A presentation on this system will be made by Straeter at the American Society of Agricultural and Biological Engineers in Louisville in Aug. 2011. Straeter had held numerous offices involving community service including being President of the Rochester Community School board, Fulton Co. Development Corporation and Chamber of Commerce. He

is heavily involved in 4H and FFA programs in his community.

In 2009 a Bergey 10Kw wind turbine was installed by Straeter as part of the Indiana Dept. of Energy Defense grant program to promote renewable energy. An innovative method of construction was devised to reduce costs and construction time for this home-sized wind turbine. Eight of these units have been installed, including one at Ancilla College in Donalds, Ind. Straeter is actively developing a solar hot water system and testing bio-diesel plant use in Indiana utilizing Pennycress and Camelina plants.

Kellie L. Walsh

Director, Greater Indiana Clean Cities Coalition

Kellie Walsh has been the executive director for the Greater Indiana Clean Cities Coalition since 2002. In that time, she has assisted coalition stakeholders in securing over \$14 million in federal and state funds to implement alternative fuel projects in both the public and private sectors. Walsh has been recognized by Senator Richard G. Lugar and Indiana's Lt. Governor Becky Skillman for her work in alternative fuels, especially biofuels. She is also a 2007 AFVI Conference Clean Cities Peer Award Recipient. Walsh was named the U.S. Department of Energy Clean Cities Coordinator of the Year in 2006 and Mentor of the Year in 2009.

Dan Welklin

Energy Consultant, Precision Comfort Systems

Dan Welklin is a residential energy consultant with 32 years in the energy efficiency sciences, most of which was derived from years as a consultant at Public Service Indiana, Cinergy and Duke Energy. Currently, Welklin is working with Precision Comfort Systems in Westfield, Ind., an industry leader in providing geothermal heating systems in Central Indiana. In his current position, Welklin helps homeowners, heating contractors and new home builders understand the science of energy use, new technology and the savings expectations for new energy saving investments. He believes there is a great need to simplify and quantify the economics of energy efficiency investments, and his presentations attempt to accomplish this. Dan Welklin is a residential energy consultant with 32 years in the energy efficiency sciences. Most of Welklin's experience comes from his years as a consultant at Public Service Indiana, Cinergy and Duke Energy. Currently, Welklin is working with Precision Comfort Systems in Westfield, Ind., an industry leader in providing geothermal heating systems in Central Indiana. ♦