

RENEWABLE ENERGY IN MICHIGAN

Presenters' Biographies

Philip Holdom is the President of Alternative Power Supply, a system integrator of wind turbine and renewable energy technologies. Philip has been in the renewable energy business for over 15 years and has designed, installed and developed renewable energy systems for residential, commercial, academic and missionary applications.

Mr. Holdrom has a degree in business and is a former Merchant Navy Officer, having navigated supertankers worldwide. He has been involved in the promotion, education and advancement of renewable energy technology since 1990.

Alternative Power Supply is currently developing an advanced wind turbine for the commercial sector with unique applications. Philip believes that renewable energy needs to be affordable and cost effective without the need for subsidies.

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Patrick Hudson arrived at the Department of Labor & Economic Growth, Energy Office in January 2004. He previously served as the Executive Director of Urban Options Energy Demonstration Facility, an East Lansing based nonprofit organization dedicated to energy efficiency and renewable energy solutions.

At the Energy Office, Mr. Hudson is responsible for managing Residential Programs. He has considerable experience creating, managing and delivering residential energy programs throughout Michigan. Prior to serving as Urban Options' Executive Director, he served as a City Planner in cities throughout Indiana, Illinois and Wisconsin. Mr. Hudson is originally from Grand Blanc, Michigan, and has previous experience with a Flint based nonprofit energy organization and a solar greenhouse program that offered horticulture training for disabled residents.

Mr. Hudson has an Associates Degree in Horticulture from Ferris State University, a B.S. Degree in Communications / Minor in Environmental Studies from Western Michigan University, and he has completed Masters level courses in Public Administration at Indiana University and Governors State University. He is currently enrolled in Western Michigan University's MPA program, and serves as the Vice Chair for the East Lansing Commission on the Environment.

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Bob Kildea has been involved with energy efficiency and alternative energy for over 20 years. He built a passive solar/energy efficient house in 1984, was involved with Western Michigan University's solar car project in 1993 and 1995, and has converted a Chevrolet S-10 to electricity. Mr. Kildea recently completed another energy efficient home and included photovoltaics and a solar water system.

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Arn McIntyre, owner of McIntyre Homes, has been an area builder since 1985. He was the first certified Green Builder in Michigan and is the Board President of Green Built Inc. Arn is an active member of EEBA (Energy & Environmental Building Assoc.) and has been an EPA Energy Star Partner since 1997. Mr. McIntyre is the State Director for the Michigan Association of Home Builders and the National Director for National Association of Home Builders. He received a B.S. in Engineering from Michigan State University and a M.S. in 1986 in Engineering from Western Michigan University in 2002.

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Kirk Patten is owner of Patton Mechanical and Montgomery Heating & Cooling. Mr. Patten attended Michigan Technological University. After attending MTU, he moved to Chicago, Illinois, where he began working on heat pumps. In 1989, he moved backed to Michigan and started working for an HVAC company that installed geothermal heating and cooling systems as well all other forms of heating and cooling systems. He later became the Director of Operations of Oceana Energy, an HVAC subsidiary of Oceana Electric Co-Operative, specializing in geothermal heating and cooling systems. In 1999, Mr. Patten became the General Manager of Great Lakes Energy Co-operative Insulation Division. In 2000, he started Patton Mechanical LLC and purchased Montgomery Heating and Cooling in 2001.

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Jim Pitts has been a member of the Lansing Community College faculty since 1973. He holds a Michigan Permanent Secondary Teaching Certificate as well as a Permanent Vocational Certificate/Automotive, as well as State of Michigan and ASE (Automotive Service Excellence) certificates. Teaching experience, other than LCC, includes time at Kalkaska High School and at Capital Area Career Center, for a total of 18 years experience in education. Other work experience includes time as an automotive service technician, automotive service management and automotive parts supply. Mr. Pitts has been involved in alternative fuels for 12 years. He holds certification to teach Natural Gas Vehicle Service and Integration, Gaseous Fuel Emission Testing and Service,

Propane Vehicle Service and Integration, Forklift and Materials Handling Equipment Service, Compressed Natural Gas Cylinder Inspection as well as Hybrid and Fuel Cell Vehicles.

Mr. Pitts efforts to advance the use of alternative fuels include teaching courses in many of the above areas, continuing membership in the Greater Lansing Clean Cities Coalition and Michigan Corn Growers Association, conducting AFV technical clinics and informational seminars, as well as coordinating AFV Day Odyssey, an all day event held in Ann Arbor promoting the use of alternative fuels.

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John Richter is co-founder of the Institute for Sustainable Energy Education (ISEE) and former president of the Great Lakes Renewable Energy Association (www.glrea.org). He has presented to the U.S. Congressional Staff on wind energy policy issues. He has presented renewable energy policy recommendations to Michigan Legislators and staff. Mr. Richter has been a regular speaker at regional renewable energy fairs for more than a decade and is a guest lecturer at Michigan community colleges. He has authored renewable energy articles for various publications, including *Home Power Magazine*. He has also created curriculum materials for K-12 renewable energy education. He earned a B.S. in Engineering with a minor in Economics from Oakland University. He is currently a student at Murdoch University, where he is pursuing a Master of Science in Renewable Energy.

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Scott Suddreth currently works as Project Manager for the internationally recognized Southface Energy Institute, a non-profit organization based in Atlanta, GA that provides education about building science and energy efficiency. As Project Manager, Mr. Suddreth provides support services for many Southface projects. Recent works have included: head photovoltaic installer for North Carolina's first Zero Energy Home; energy performance modeling and editing of the *Builder's Guide to Energy Efficient Homes* in Kentucky, Louisiana, North Carolina, South Carolina, and Tennessee; and has served on a steering committee to help develop North Carolina's pioneering green building program "The North Carolina Healthy House" He has a B.S. in Industrial Technology, Appalachian State University, Boone, NC in '97 and a M.A. Industrial Technology, Appalachian State University, Boone, NC; May 2000.

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Art Toy's interest in renewable energy is reflected in his home which is equipped with a 10 KW Bergey Wind Turbine, a 40 evacuated tube 2.4 KW solar hot water system, a whole house battery backup power system, and a geothermal heating system. He also owns a 1994 US Electric S10 pickup truck, and. Art has been a research chemist with the Upjohn pharmaceutical company and is currently managing the printer fleet for the Pfizer Inc., a pharmaceutical manufacturing plant in Portage, Michigan. Art holds a B.S. & M.S. degree in Chemistry from the University of California at Los Angeles and tinkers with computer and renewable energy systems. He is an honor graduate of the U.S. Air Force Ground Forward Air Controller School and an honor graduate of the U.S. Army Field Artillery School. Mr. Toy & his wife Sharon are

refurbishing a farmhouse built in 1899. They have designed the farmhouse for summer cooling with a south and west facing porch and a Belvedere on the top of the house to allow for convention cooling. They live in Lawrence, Michigan.

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Peter Von Buskirk is a primary design and installation technician with Mechanical Energy Systems, a provider of solar technology products, service, and training for over 20 years.

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