

6th Annual

Wisconsin Energy Efficiency Expo

May 17, 2018

A CONFERENCE AND EXPOSITION
TO PROMOTE ENERGY EFFICIENCY

Presented by: Wisconsin Chapter of the
Association of Energy Engineers



Hosted by: West Bend
Mutual Insurance Company



WAAE (Wisconsin Chapter of the Association of Energy Engineers) has over 200 members representing over 100 of Wisconsin businesses, utility companies, contractors, suppliers, academia, consultants, and state organizations. **WAAE** monthly meetings focus on energy efficiency, networking, and modern technologies; followed by a tour of the facility showcasing their energy reduction efforts. Past meetings were held at:

ABB	Harley Davidson	Mercury Marine
Alliant Energy	Hunzinger University	Oshkosh Defense
American Family Insurance	JF Ahern	Polyfab Corp
Aurora Medical Center	JH Findorff & Sons	Potawatomi Casino
Bemis Manufacturing	Johnson Controls Inc	Quad Graphics
Bucyrus/Caterpillar	Kwik Trip - HQ	Rexnord Falk
Charter Steel	Kohl Center	Rosendale Dairy
Cleaver Brooks	Kohler Company	Sargento Foods
CREE	Letterhead Press	Seventhwave
Environmental Systems, Inc	McCotter Energy Systems	Sheboygan WWTP
Experimental Aircraft Association	Quality Power Solutions	Trane – West Allis
Faith Technologies	MillerCoors	Trek Bicycle
Greenheck	Miller Park	University of Wisconsin
Gundersen Health	Menasha Packaging	Valley Power Plant
Hastings Air	MG&E	We Energies

WAAE and its members have received numerous awards which includes:

CHAPTER AWARDS:

AEE National – Expo of the Year (2017)
AEE National – Chapter of the Year (2013, 2016)
AEE National – Best Chapter Meeting - WEEE (2015)
AEE National – Best Chapter Website (2014)
AEE National – Best Student Chapter (2016)
Most New Members (2008, 2010, 2013)

INTERNATIONAL AWARDS:

Energy Engineer of the Year (2014)
Energy Manager of the Year (2011, 2013)
Renewable Energy Project of the Year (2013)

MIDWEST REGIONAL AWARDS:

Energy Manager of the Year (2011, 2016)
Energy Professional Development Award (2011, 2013)
Energy Innovator of the Year (2011, 2013)
Young Engineer of the Year (2009)

Visit **WAAE's** website (waae.wildapricot.org) for additional Information regarding upcoming meetings, training and events, or to become a **WAAE** member.

6th ANNUAL

WISCONSIN ENERGY EFFICIENCY EXPO

Keynote Speakers

Mercury Marine – “Managing Sustainability and Energy”

Steve Marsch

**Director of Facilities Engineering and Maintenance Services
Mercury Marine**



Steve is responsible for planning, organizing, directing and controlling Facilities Management functions at Mercury Marine. Steve provides leadership in an environment which promotes teamwork, continuous improvement, customer satisfaction and high standards of service. He allocates engineering resources as requested to support all functions in accomplishing operating unit business objectives. In addition, Steve plays a key role in supporting Mercury’s focus on sustainability through championing the conservation of energy and water across all global operating locations toward our mission of responsible stewards of the environment. Steve holds a MS and BS from Marquette University.

Scott Louks

**Sustainability and Facilities Project Manager
Mercury Marine**



Scott is a recognized leader at Mercury Marine with over 20 years’ operational experience in project management, manufacturing, engineering, quality and continuous improvement. Scott plays an important role with leading Mercury’s global sustainability efforts revolving around four key pillars; responsible consumption of energy, caring for the environment, product stewardship and quality of life. Significant progress has been made in each of the categories as Mercury works to achieve its goals and continue to nurture a culture of sustainability. Scott holds a BS Mechanical Engineering from Lawrence Technological University.



About Mercury Marine: Headquartered in Fond du Lac, Wis., Mercury Marine is the world’s leading manufacturer of recreational marine propulsion engines. A \$2.5 billion division of Brunswick Corporation (NYSE: BC), Mercury provides engines, boats, services and parts for recreational, commercial and government marine applications, empowering boaters with products that are easy to use, extremely reliable and backed by the most dedicated customer support in the world. Mercury’s industry-leading brand portfolio includes Mercury and Mariner outboard engines; Mercury MerCruiser sterndrive and inboard packages; MotorGuide trolling motors; Mercury propellers; Mercury inflatable boats; Mercury SmartCraft electronics; Attwood marine parts; Land ‘N Sea marine parts distribution; and Mercury and Quicksilver parts and oils. More information is available at mercurymarine.com.

6th ANNUAL

WISCONSIN ENERGY EFFICIENCY EXPO

Keynote Speakers

“The Transformational Role of The Shale Revolution”

Brian Habacivch

Principal, Constellation Energy, Commodities Management Group (CMG)



Brian began his career in the energy industry as the Associate Editor of *Gas Daily*, the nation's leading natural gas market publication. He was responsible for the daily spot market pricing survey and various indices used widely by gas producers, marketers, end-users, and traders. He also covered the Federal Energy Regulatory Commission from *Gas Daily's* Washington D.C. headquarters. Brian has worked in natural gas, liquid fuel, electric power marketing, business development, consulting-management, and energy market intelligence with various companies and brings over 25 years of experience to the fore.

Currently, Brian is Principal, Constellation Energy, Commodities Management Group (CMG). Constellation Energy is the leading supplier of natural gas and electric power to the commercial and industrial customer class in the U.S. The Commodities Management Group within Constellation is responsible for energy market intelligence, risk management, and energy price and market analytics.

Brian's comments and views have been featured in *The Wall Street Journal*, *Barron's* and *Industry Week*. Brian is a member of the American Fuel and Petrochemical Manufacturers Association Shale Energy Committee, has been a past member of the Aluminum Association of America, and has been a featured speaker at numerous energy industry conferences in North America and the European Union.



About Constellation Energy: Constellation Energy is wholly owned by Chicago-based Exelon Corporation (NYSE:EXC), the largest utility holding company in the U.S. owning and operating Atlantic City Electric, Baltimore Gas & Electric, ComEd (Commonwealth Edison, Illinois), Delmarva Power, PECO (Philadelphia Electric Co.), and PEPCO (Potomac Electric Power Co.). Exelon employs approximately 34,000 and serves more than 10 million customers. Exelon is the largest competitive power generator in the U.S. and has operations in nearly every state in the U.S.



New Technology Breakfast
and Classrooms

Registration Registration

UE SYSTEMS ARCH ELECTRIC SUSTAINABLE BUILDING SOLUTIONS

BEST PRACTICES EXPO	MASTER'S ACADEMY	ENERGY PERFORMANCE LIGHTING	QUALITY POWER SOLUTIONS	HASTINGS <small>Air Energy Control</small>	ABB - JIMB	THE ENERGY HOUSE	FOCUS ON ENERGY
ENERGENECS	PBBS EQUIPMENT CORP	HONEYWELL MERCER SALES	HGA	J & H CONTROLS	ALLIED INDUSTRIAL MARKETING	CREE	FAITH TECHNOLOGIES

RIVION

LOGICAL GREEN SOLUTIONS	UW PLATTEVILLE	CJM Lighting	Refreshments (2:00 - 4:00pm) Drawings (2:30pm)	Beverages (All Day)
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May 17, 2018	WEEE - Wisconsin Energy Efficiency Expo	Room
7:00 – 8:00	Registration – Breakfast begins at 7:30 am (Auditorium)	Aud
7:50 – 8:00	Welcome (Auditorium) – Richard Feustel, WAEE Vice President	Aud
8:00 – 8:55	New Technology Breakfast (Auditorium) Sponsored by: Faith Technologies, Inc	Aud
9:00 – 9:45	Breakout Session 1 <ul style="list-style-type: none"> ▪ Lighting and Human Health ▪ Synergistic Mechanical Solutions: Maximizing Plant EE ▪ Training Future Energy Engineers ▪ Energy Resiliency: Planning for Campus Longevity ▪ Electric Vehicle Charging: Basic and Beyond 	Aud A B C D
9:45 – 10:15	Exhibitor Viewing	Exhibit Area
10:15 – 11:00	Breakout Session 2 <ul style="list-style-type: none"> ▪ Lighting and Automation ▪ New Wisconsin Energy Code – What Does it Mean to Me? ▪ Energy Efficiency: Duct Sealing from the Inside ▪ Integrated Outdoor Air Systems 	Aud B C D
11:00 – 11:30	Exhibitor Viewing	Exhibit Area
11:30	Lunch (Rooms A and B)	A/B
11:45 – 12:00	Announcements & Door Prize, Jerry Eaton – WAEE President	A/B
12:00 – 1:00	Key Note Speakers: Steve Marsch & Scott Louks; Sustainability Team, Mercury Marine Brian Habacivch; Principal, Constellation Energy	A/B
1:00 – 1:30	Exhibitor Viewing	Exhibit Area
1:30 – 2:15	Breakout Session 3 <ul style="list-style-type: none"> ▪ Wisconsin's Political and Regulatory Energy Trends ▪ Compressed Air Best Practices ▪ Six-Step HVAC Maintenance Recovery ▪ Air Balancing: HVAC/Ventilation Improvements 	Aud B C D
2:15 – 2:45	Exhibitor Viewing	Exhibit Area
2:30	Door Prizes – Must be present to win: 5TB HD, 4 Brewer Tickets	Exhibit Area
2:45 – 3:30	Breakout Session 4 <ul style="list-style-type: none"> ▪ Solar Today: Cost Savings Analysis ▪ Retro-Commissioning: Cost Effective Approach ▪ Make Money, Improve Sustainability, and Save Time ▪ Air Barrier Testing and Common Failings ▪ Practical Energy Savings Measures 	Aud A B C D
3:30 – 4:00	Exhibitor Viewing (Pick up CEU/PDH Certificates)	
4:00	Closed	

Breakout Session #1: 9:00am – 9:45am

Topic: Light and Human Health (Auditorium)

Description: This presentation will provide information on how to achieve as much as 70+% energy savings on lighting projects and how light affects human physiology and psychology. Learn how to improve visual performance and comfort based on a photo receptor in your eye that was discovered 15 years ago. The color of light affects your visual acuity, alertness, attitude, and even your sleep patterns. Learn how the rapidly evolving science of light can change your work environment for the better.

Speaker Information: Rodney Heller LC, CLEP, is Senior Designer at Energy Performance Lighting. He is a leading industry expert and author of the Illuminating Engineering Society's Upgrading Lighting Systems in Commercial & Institutional Space publication and has over 15 years of experience in lighting retrofits.

Topic: Synergistic Mechanical Solutions: Maximizing Plant Energy Efficiency (Classroom A)

Description: Common building construction contracting methods compartmentalize the various disciplines within a plant. As a result, the synergies between HVAC, refrigeration, process, and plumbing systems are lost resulting in wasted energy. This presentation will explore the benefits of looking holistically at energy requirements for all mechanical systems. A synergistic approach achieves payback through a combination of capital cost avoidance and O&M cost reduction. Real world examples will demonstrate the benefits of using standard equipment to share energy between multiple systems within varied manufacturing environments, including creative use of geothermal and thermal storage systems.

Speaker Information: Mike Rohde is the President of Rohde Brothers, an industrial and commercial engineering and construction solutions provider. His passion for engineering innovation stems from his earlier experience developing robots and rocket motors for NASA and serving in the U.S. Army as a Cobra and Blackhawk pilot. Today he works with industries closer to his Wisconsin roots and continues to push the energy efficiency envelope in industrial and food processing facilities. Mike holds a Master's of Mechanical Engineering degree from the University of Wisconsin-Madison. He is a Wisconsin Registered Professional Engineer and is also a Certified Geothermal Designer.

Topic: Training Future Energy Engineers (Classroom B)

Description: In this presentation, we will be exploring the characteristics and knowledge-base necessary for energy engineers and professionals to be successful into the future. We will present how a variety of skillsets such as technical, business, management, leadership, and communication are necessary in an ever-changing field of energy, as well as the importance of hands-on experiences, interaction with industry, and working with local communities can lead to a richer educational experience and better professional skillsets. We will also discuss the curriculum and goals of our newest program: Sustainability and Renewable Energy Systems (SRES) at the University of Wisconsin-Platteville and demonstrate how we integrate various activities into the curriculum with the ultimate goal of providing engineers and professionals with an outstanding skillset for the energy industry.

Speaker Information: Dr. Mesut Muslu has been a faculty member in the Electrical Engineering (EE) Department at the University of Wisconsin - Platteville (UW-Platteville) over 25 years. While at UW-Platteville, he served as Department Chair of EE, Interim Dean of the College of Engineering, Mathematics and Science (EMS), and coordinator of the collaborative engineering programs. Recently he is the coordinator of the Sustainability and Renewable Energy Systems (SRES) program. His research is in optimal operation of electric power systems with environmentally constraints. He currently teaches power/energy related courses in both EE and SRES programs.

Speaker Information Dr. Pamela Tas earned her Ph.D. in Plant Breeding and Plant Genetics from the University of Wisconsin-Madison after earning a B.S. in Natural Resources. Dr. Tas is a faculty member in Sustainability and Renewable Energy Systems department with research interests in biofuels and biorenewable resources such as wastes and dedicated energy crops, as well as more sustainable farm practices. Dr. Tas' research ranges from characterizing the chemical composition of energy crops to assessing their usefulness in different markets and determining practical solutions for the production and processing of plant-based systems.

Topic: Energy Resiliency: Planning for Campus Longevity (Classroom C)

Description. Energy efficiency can play an importance role in improving resiliency. However, with all the ways that energy efficiency and resilience are complementary, the question naturally arises: If I'm too focused on energy efficiency, am I hurting my facility's resilience, or vice versa? Learn about tools to balance these two complementary concepts to help "future-proof" your organization against severe weather events and other unforeseeable threats.

Speaker Information: As Energy + Infrastructure Market Sector Leader and Principal at HGA Architects and Engineers, Rick specializes in campus infrastructure, energy improvement and engineering projects. His work includes master planning, energy audits, central utility plants, infrastructure upgrades and commissioning work. He is skilled at integrating MEP and architectural systems into balanced energy plans that consider first-costs and long-term payback. Rick has previously presented at various conferences and published numerous articles throughout his 30+ year career. Rick received his BS in Electrical Engineering from Marquette University and is a LEED Accredited Professional.

Topic: Electric Vehicle Charging: Basics and Beyond (Classroom D)

Description: The growth of electric vehicles (EV) and the behavior of EV drivers are increasing the demand for electric vehicle charging stations. This session explains the different types of charging available, their suitable applications, and discusses the planning and installation considerations for electric vehicle supply equipment (EVSE).

Speaker Information: Brian Levin is the Midwest Director for ChargePoint, the largest electric vehicle (EV) charging network in the world, with charging solutions in every category EV drivers charge, at home, work, around town and on the road. Brian has been in the industry for over 9 years and has worked with many Fortune 500 companies, cities and universities to get EV charging installed. With more than 46,500 independently-owned charging spots and more than 8,000 customers (businesses, cities, agencies, and service providers), ChargePoint designs, develops, and manufactures hardware and software solutions across every use case. Leading EV hardware makers and other partners rely on the ChargePoint network to make charging station details available in mobile apps, online and in navigation systems for popular EVs. ChargePoint drivers have completed more than 35 million charging sessions, with more than 834 million electric miles having been driven on the ChargePoint network.



On behalf of the entire Wisconsin Chapter of the Association of Energy Engineers (WAAE) Board of Directors and it's 200 members, we want to offer our condolences to the family, friends, and colleagues of Michael Mittelsteadt.

AEE President, VP, Mike F, Michael Mittelsteadt, Jerry E, Tom O

As we celebrate his life today, WAAE wants to remember his commitment and professionalism to the energy field. Mike was on the WAAE board of directors for over 5 years. He was instrumental in coordinating the training offered at our annual Wisconsin Energy Efficiency Expo. This was evident, when WAAE was awarded the Association of Energy Engineers highest honors; the 2017 National Expo of the Year Award. Mike received this award on behalf of the chapter, at the World Energy Engineering Congress (WEEC), Atlanta Georgia, September 2017. Mike, You will truly be missed!

Breakout Session #2: 10:15am-11:00am

Topic: Lighting and Automation (Auditorium)

Description: LED lighting adoption has accelerated rapidly in the past several years. Most the adoption that is occurring today is a one to one replacement of incumbent technology, however, LED lighting has moved well beyond this. Embedded sensors, electronics and software all work together using the language of light and algorithms to automatically learn and interact with each other and your space. Real world application case studies of LED lighting installations will show how the technology is being rapidly adopted in categories that were once considered impossible for LED lighting.

Speaker Information: Eric Haugaard is Director of Product Technology at Cree Lighting; Eric has a career that spans 27 years including previous positions of Engineering Manager of New Product Development & Mechanical Design and Product Development Engineer. Over the past decade Eric has presented lighting technology programs to diverse audiences throughout the world, including a strong focus on LED technologies. He holds 48 US and 14 foreign patents related to lighting.

Topic: New Wisconsin Energy Code: What it Means for Me (Classroom B)

Description: This presentation will discuss the history of energy code in Wisconsin and the newest energy code, IECC-2013, adopted May 1, 2018. It will detail the major differences and design impacts between the old code (IECC-2009) and the new code (IECC-2013) as relevant for energy consultants and building owners.

Speaker Information: Shana Scheiber, PE, WELL AP, LEED AP, CEM is Building Performance Consultant at Affiliated Engineers. She specializes in high performance design involving energy simulation, mechanical system optimization, the incorporation of wellness features, long-term building system planning related to operational costs, capital budgets, measurement and verification, benchmarking, carbon footprint, detailed rate analysis, heat recovery work and on-site energy audits.

Topic: Energy Efficiency: Duct Sealing from the Inside (Classroom C)

Description: Did you know that typical ductwork in today's commercial buildings lose 25-40% of heating & a/c energy. Even newly installed systems can experience a leak rate of 10-30%. This presentation will cover the impact of proper duct sealing and its effects on your energy cost.

Speaker Information: Keith Garris has over 25 years of Sales and Marketing experience in a variety of national and global markets, primarily in automotive and various HVAC sectors. Keith has BS degree in Business with an emphasis in Marketing and Psychology and has been with Aeroseal for 2 years as the National sales and marketing director.

Topic: Integrated Outdoor Air System (Classroom D)

Description: As buildings continue to be designed for lower energy use, the resulting reduction in sensible-cooling loads often make systems that use zone-level, sensible-only cooling equipment more economically feasible. This session introduces attendees to the Trane CoolSense Integrated Outdoor Air System, which uses chilled-water sensible-cooling terminal units, a dedicated outdoor air system, and a dual temperature chiller plant.

Speaker Information: Mark Ericson is a Technical Sales Engineer for Trane in Milwaukee, Wisconsin. He graduated from University of Wisconsin Madison with a degree in Mechanical Engineering and has worked at Trane for 5 years. In his time at Trane, he has worked with primarily consulting engineers and design build contractors to bring innovative HVAC solutions to a wide variety of building types including hospitals, offices, schools, manufacturing facilities, and many others. He is on the board for the local ASHRAE Wisconsin chapter.

Breakout Session #3: 1:30pm-2:15pm

Topic: Wisconsin's Political and Regulatory Energy Trends (Auditorium)

Description: WEEE is delighted to have one of their featured training presentations return for its 5th consecutive year. The presentation includes an overview of current political and regulatory trends and changes in recent decades. Key statistics regarding Wisconsin's economy, generation resources, supply/demand and rate comparisons along with upcoming federal, regional and state regulations and how that may impact Wisconsin's ratepayers will be presented.

Speaker Information: Todd Stuart is executive director of the Wisconsin Industrial Energy Group, Inc. (WIEG). WIEG is a non-profit association of large energy consumers that advocates for policies that drive affordable and reliable energy. WIEG testifies before the Legislature, the Public Service Commission and the Department of Natural Resources in order to control costs for large ratepayers. WIEG has been instrumental in saving large energy users hundreds of millions of \$ related to proposed utility rate increases that were significantly reduced. Todd received both undergraduate and graduate degrees from UW-Madison.

Topic: Compressed Air Best Practices (Classroom B)

Description: Compressed Air Best Practices

Speaker Information: Roderick Smith is the Publisher of Compressed Air, Blower & Vacuum, and Chiller & Cooling Best Practices® magazines. Mr. Smith worked as an executive in the compressed air industry, for SPX Hankison and Quincy Compressor, from 1992 to 2006. Seven of those years were spent developing new business in Spain and Germany. Mr. Smith serves as the Editor and Sales Manager of the Best Practices® magazines and as the Producer of the annual Best Practices EXPO & Conference.

Topic: Six-Step HVAC Maintenance Recovery (Classroom C)

Description: Before jumping into a major HVAC energy optimization program, it's important that you get the most out of the existing system first. With over 35 years' experience in the HVAC service and temperature control industry, Tom's back-to-basics presentation will give you a brief outline that can reduce HVAC energy consumption by more than you can imagine. Rarely does the first four steps of his program have a return on investment that exceeds one year!

Speaker Information: Tom Olson has a Bachelor of Aeronautical Engineering degree from the University of Minnesota. After brief stints with two major temperature control companies, Tom founded and co-owned an HVAC energy optimization company, which he served as president, for 28 years. During his career, he served in numerous positions of the Minnesota Chapter of ASHRAE, including President.

Topic: Air Balancing: HVAC/Ventilation Improvements (Classroom D)

Description: Often overlooked as an energy saving and comfort improvement, air balancing is vital to your building. This session will focus on identifying air flow issues, specifically in a manufacturing plant, how to correct the issues and how this will reduce energy waste.

Speaker Information: Paul Ziehr is Owner of Energy Recovery Partners from June of 2010 to present. Combining over 20 years of engineering, process improvement, project management, and sales experience, Paul excels in developing specialized solutions in food safety HVAC, abatement, and waste heat recovery for food processors and manufacturers across the country.

Breakout Session #4: 2:45pm-3:30pm

Topic: Solar Today – Cost Savings Analysis (Auditorium)

Description: Is Solar Electricity Ready for your Commercial or Industrial Application? Topics Discussed: Utilities and Net Metering, Basic Solar Applications, Cost Savings Analysis, 30% ITC Tax Credit, Asset Depreciation, and Renewable Energy Grants.

Speaker Information: Dan is a Master Electrician and Certified Energy Manager, born and raised in Plymouth, WI. He currently lives in Plymouth with his wife and 5 boys, enjoying camping, fishing, and sporting events. He joined the Arch Electric Team in early 2018 after spending 14 years in Energy Efficient Design and Control. His past experiences in power monitoring, lighting, refrigeration, and automation combined with his passion for renewable energy has made him a great asset to the team and his clients.

Topic: Retro-Commissioning: Cost Effective Approach (Classroom A)

Description: This track will help you understand the Retro-Commissioning Process in its totality, financial & operational benefits, learn the benefits of Utilizing Incentive Funding, and help determine the expected results of implementing the RCx for your facilities.

Speaker Information: Tom Dragotta is as an Energy Advisor for the Focus on Energy Agriculture, Schools and Government Program, serving customers in Milwaukee County. He has worked in the energy efficiency sector over 10 years and has been with Focus on Energy since 2012. Most recently, he transitioned to a customer consulting role, providing building efficiency strategies and financial incentives for school and government buildings. Prior to this role, Tom served as a Program Manager, designing multifamily, small business, retro-commissioning and new construction energy efficiency programs for Midwest investor owned utilities. Tom is a graduate of UW-Whitewater and holds a degree in Marketing. He is a member of the Association of Energy Engineers.

Speaker Information: Farhan Khatri has over 17 years of building engineering systems design, commissioning and energy optimization experience. He currently works as a Regional Manager at Edison Energy and is based out of Madison, WI. Farhan has been the instructor for multiple classes at the University of Wisconsin – Madison in building integration and performance. He also provided a course of USGBC in commissioning process for building owners. He has been published in Building Operating Management, Consulting – Specifying Engineer and Society of Automotive Engineers. Farhan has a B.S. in Mechanical Engineer from UW – Madison and is registered as a Professional Engineer in the State of Wisconsin. His certifications include Certified Energy Manager, Project Management Professional, Qualified Commissioning Process Provider, and LEED AP.

Topic: Make Money, Improve Sustainability, and Save Time (Classroom B)

Description: Sustainability is at the forefront of purchasing and success, today more than ever. However, budgets are tight and who has enough time to keep up? Bill and Rick from Logical Green Solutions (LGS) will help you discover your “low hanging fruit,” and identify potential challenges and risks to avoid. They will pass along unique energy-saving technology programs to improve environmental sustainability, further grow your business, make more money, and help save you time.

Speaker Information: Bill Fuchs, president of Logical Green Solutions, loves the outdoors, construction, technology, and gaming. Rick Kennett is a sustainability activist who focuses on how sustainability can drive businesses to success. They mix construction, financing, IT, and energy-saving technology experience, and a bit of humor to provide you with practical solutions that achieve your business goals.

Topic: Air Barrier Testing and Common Failings (Classroom C)

Description: This presentation is designed to clarify expectations of performing diagnostic air barrier testing on existing and new construction structures. With pending 2015 IECC code changes, air barrier pressure testing will be required on even more structures seeking new occupancy. We will delve into what a whole building air barrier test looks like, why test, common results sought, and what the investigation process looks like? Equipment used for testing from blower doors to incorporating thermography will be discussed. Some of the various standards will be summarized. Attendees will recognize why to test, visualize what a whole building air barrier test may look like, and where common failings in existing air barriers are often located.

Speaker Information: Torrance Kramer has been passionately working to reduce energy consumption in buildings across the country throughout his career as an energy manager. Having completed thousands of comprehensive energy audits on buildings of all types, he began to see the lack of understanding in air barriers and the need in commercial structures. He has tested air barriers on most types of buildings. He now operates Accurate-Airtight Exteriors which tests, repairs, and consults on quality air and thermal barriers of buildings of all sizes.

Topic: Practical Energy Savings Measures (Classroom D)

Description: At the heart of our work across the U.S. and in facilities across the world, is a mission to reduce energy and water consumption. We've found that many people knew their goal was to reduce utility costs, but simply didn't know how or exactly where to start. This session will help you find that starting point and get things moving. We'll discuss experiences which remain consistent and have proven to be very simple ways to save energy.

Speaker Information: As a Senior Solutions Consultant at Rivion, Rock Rodolfi provides energy, water, and commissioning services, operating as an independent, third-party authority on behalf of owners implementing HVAC, lighting, domestic water and renewable energy projects. Rock focuses on emphasizing the practical and holistic value proposition inherent to energy and water efficiency focused projects, highlighting the importance of return on investment and return on community. Rock has been involved in numerous projects across the spectrum of LEED® and similar programs, including LEED for Existing Buildings: Operation and Maintenance, LEED for New Construction, ASHRAE Energy Audits, PACE financing, and commissioning, encompassing over 28.5 million square feet.



WAAE is always looking for new meeting locations to host one of our monthly meetings. If you have a project, technology, program, training or other ideas related to energy efficiency, we would be thrilled to see it. Meetings (30-50 attendees) are usually held on the 4th Wednesday of the month. Typical agenda:

- 12:00 – 12:30 Lunch
- 12:15 – 12:30 Chapter Business (lunch continues)
- 12:30 – 1:15 Topic 1 (typically about the host organization)
- 1:15 – 2:00 Topic 2 (usually about the host energy project / program)
- 2:00 – 3:00 Tour of the host site

If you are interested or have a suggestion, please contact;
Richard Feustel, **WAAE** Vice President at RichardFeustel@gmail.com

WEEE HOST & SPONSORS



WEST BEND MUTUAL INSURANCE CO.



For 120 years, West Bend has been providing valuable insurance coverages and services to home and auto owners, as well as business owners, throughout the Midwest. West Bend is a relationship-based company with core values that emphasize excellence, integrity, and responsibility. West Bend's associates number more than 1,000 and are committed to providing exceptional service to their policyholders and independent agent partners. West Bend is owned by its policyholders. Their decisions are always based on what's best for their agents, insureds, and associates for the long term. Their dedication and commitment are the foundation of their Silver Lining® brand, The Worst Brings Out Our Best®.



BRIGGS & STRATTON



Briggs & Stratton Corporation (NYSE: BGG), headquartered in Milwaukee, Wisconsin, is focused on providing power to get work done and make people's lives better. Briggs and Stratton is the world's largest producer of gasoline engines for outdoor power equipment, and is a leading designer, manufacturer and marketer of power generation, pressure washers, lawn and garden, turf care and job site products through its Briggs and Stratton®, Simplicity®, Snapper®, Ferris®, Vanguard®, Allmand®, Billy Goat®, Murray®, Branco®, and Victa® brands. Briggs & Stratton products are designed, manufactured, marketed and serviced in over 100 countries on six continents. For additional information, please visit www.basco.com and www.briggsandstratton.com.



FAITH TECHNOLOGIES, INC.



Faith Technologies, Inc. is a national leader in electrical planning, engineering, design, installation and commissioning that simply goes further. They strive to out-perform everyone else in the General Building, Mission Critical and Industrial markets by continually investing in their employees' skill sets and providing all-inclusive services that make project work easier and more rewarding while placing customer value and safety first. This is the mindset that Faith Technologies brings to every project, thanks to their comprehensive service approach and Integrated / Design-Build Project Delivery methodology. Serving as your single design and implementation partner, they maximize quality, safety, and efficiency by providing electrical design, engineering, turn-key project implementation, and site management all under one contract and one schedule.



FOCUS ON ENERGY



Focus on Energy is Wisconsin utilities' statewide energy efficiency and renewable resource program. Since 2001, the program has worked with eligible Wisconsin residents and businesses to install cost-effective energy efficiency and renewable energy projects. The information, resources, and financial incentives they provide help to implement energy saving projects that otherwise would not be completed, or to complete projects sooner than scheduled. These energy projects help Wisconsin residents and businesses manage rising energy costs, promote in-state economic development, protect our environment, and control Wisconsin's growing demand for electricity and natural gas.



ROHDE BROTHERS



Rohde Brothers is one of Wisconsin's most successful, well-known and respected commercial / industrial contractors. Their reputation of integrity and reliability dates back to 1911. Rohde has designed and fabricated award-winning systems and progressive solutions for new and established companies representing a variety of industries including food processing, cheese making, industrial manufacturing and die casting.