



Wisconsin Geothermal Association

Winter 2010 Issue

2010 WGA Annual Meeting and Conference March 17 & 18, 2010 The Hotel Mead, Wisconsin Rapids

A Message from the President

It's All About The Training

Some things never change! As the technology of geothermal heat pumps makes them more efficient, more reliable and quieter, the things that remain constant are proper design, sizing, and installation. It doesn't matter how good the heat pump is, if it is installed improperly, sized wrong or used in the wrong application, there will be problems.

Sizing of the system, selecting the proper model unit for the job, and then following all manufacturer's recommendations and specifications for installation has always been the proper way for a good geothermal installation. A tax credit or rebate shouldn't change the way a contractor would approach a job. If the proper model heat pump for the job doesn't qualify



Brian Urlaub, President of WGA

for a specific tax credit or rebate, maybe another direction could work, but the cost needs to be looked at and determined if it would outweigh the tax credit or rebate.

The key to proper installation, design, and sizing

is training. Contractors that are selling and installing geothermal systems should be attending training at least once a year, and ALL employees that install or service the products should attend training as well.

That leads me to my next suggestion. Come to the annual WGA event and attend 4 of the 16 different training seminars and learn from the best in the industry. This conference is guaranteed to be a great event and I look forward to seeing you all there.

Brian

Want to get involved in WGA?

Three of the nine WGA board of director terms will expire at the Annual Meeting. The three incumbent directors are: Manus McDevitt, Mike Stevens and Dave Mitchell. Any WGA member can - and is welcome - to run for the board. If you are interested in running, it is suggested that you contact Brian Urlaub prior to the Annual Meeting. However, any nominations from the floor will be accepted during the meeting.

Board meetings are held quarterly at various locations around the state.



Speaker Biographies - More Great Reasons to Attend the WGA Annual Meeting & Conference

Wednesday, March 17, 2010

Session 1 1:00 – 2:30 p.m.

Joe Nagan of Focus on Energy who brings over 30 years of experience working with building science for the Wisconsin climate will be presenting “Geothermal HP: Part of the Home as a System.” Joe has been and will continue to be a large part of proper heating and cooling solutions because of his dedication to helping homeowners understand the importance of the building envelope in achieving energy efficiency.

Leo Udee of Alliant Energy will share his 15 plus years of geothermal experience and will be presenting “Geo101: The Renewable Bridge Technology.” Leo’s extensive jobsite photo collection is an education in itself, and all attending are sure to see and hear Leo’s long term goal for delivering efficiency in all energy systems.

Manus McDevitt PE, Sustainable Engineering Group, has 18 years of engineering design experience and will be presenting “Light Commercial Building Design with Geothermal.” Manus serves as the treasurer of the Madison, Wisconsin chapter of ASHRE and his extensive commercial design experience can help keep geothermal installers, engineers, project managers and all interested parties out of trouble.

Joel Clary of Summit Design and Earth Energy Services will be presenting “Designing & Sizing All Types of Residential Loop Fields.” Joel has been involved in the HVAC design business since 1998, performing geothermal designs since 2001 for Summit Design. He is a PE in Mechanical Engineering, MBA, CGD, and is an AI trainer. Joel states he has two passions: designing geothermal systems and educating installers.

Session 2 3:00 - 4:30 p.m.

Rick Hiles brings his 31 years of geothermal industry experience to the conference to discuss “Sizing a Geothermal Heat Pump.” Rick is one of the leading managers for Climatemaster, and he has a strong passion for seeing proper installations and applications of this technology. Over the next 5 years, Rick sees education as the leading issue facing this industry.

Jeff Urlaub of MEP & Associates will present “Commercial Loop Design and Pumping Options.” Jeff’s exten-

sive experience with commercial geothermal systems includes over 20 years of what to do and what not to do. He sees the distribution of information regarding the proper application and limits of geothermal technology in commercial settings as key industry issues.

James Mayer brings 40 years of experience in the marketing and selling of engineering products through wholesale distribution. He has been engaged in geothermal for the past 5 years and is the vice president of Champion Manufacturing Industries. His goal is to help contractors understand and install better HVAC systems. James will tell you the biggest issue facing geothermal today is the ability to provide the proper distribution system for the selected geothermal forced air equipment.

Don Schuster of Geo-Tech has been dealing with the geothermal industry for 29 years. His presentation title is “Hot Water/Chilled Water Geothermal Applications.” His focus is on educating installers on proper methods of installing radiant flooring systems.

Thursday, March 18, 2010

Session 3 8:30-10:00 a.m.

Lino Santoro of Viega will be presenting “Water to Water Heat Pumps with Radiant Floors.” Lino’s extensive experience in radiant heating, controls and system troubleshooting, coupled with the specialized training received from numerous manufacturers over the years, has firmly established Lino as an industry expert. He would like to see more mainstream installation integration of energy and comfort systems to supplement geothermal systems. The fact that geothermal is a renewable resource and that there is great flexibility in geo applications are what make geothermal such an important part of today’s HVAC world.

Bill Furbish had a 30-year career regulating the geothermal industry and after retiring from the Wisconsin DNR, he joined G.O. Loop as a consultant. Bill’s presentation “Vertical Drilling and Proper Grouting Techniques” is directly related to what Bill sees as the key issue facing the geothermal industry: teaching proper looping techniques for geothermal systems.

Jeff Hammond of Enertech has over 25 years experience in the geothermal industry, and he will present



continued from page 2

“Energy Star and Tax Credit Information Changes.” Jeff believes the key issues surrounding the geothermal industry are raising consumer awareness and installer knowledge of the proper application of geothermal technology.

Session 4: 10:30 - Noon

Phil Jeffers of Etrols Energy Systems and **Galen Betz** of WaterFurnace Renewable Energy will present “Increasing Your Sales Closing Rates.” Galen brings his building science background and 10 years of knowledge in geothermal applications. Phil’s 25 years of industry experience brings an unmatched software development and knowledge of the HVAC industry from the perspective of the installing contractor.

Grant Ketterhagen of Ditch Witch will be presenting “Directional Drilling & Installation Techniques.” Grant has been with Ditch Witch for 6 years and he has a passion for optimizing the efficiency of each worker in the geothermal industry.

Steve Wood of EWC Controls has been involved in the controls business for over 20 years. He is applying this experience to discuss “Zoning with a Geothermal Heat Pump System.”

Brian Urlaub of Enertech will be presenting a segment on “Advanced HP Troubleshooting.” Brian’s currently a regional sales manager for Enertech, a certified IGSHA trainer, and the President of the Wisconsin Geothermal Association. Over the past 8 years he has provided training, design assistance, and support to over 200 geothermal installers.

Lunch & Keynote Speaker: Noon – 1:00p.m.

Jeff Beiriger is the 2010 keynote speaker and is an executive with PHCC & WWA. His involvement in the geothermal industry is sure to bring appropriate solutions and attention industry issues.

Wisconsin Geothermal Association Conference & Annual Meeting

Go to www.wisgeo.org to register as an attendee, to get information on being a sponsor, or to find out how to be an exhibitor.

Calendar of Events

March 17 & 18, 2010

WI Geothermal Association Annual Meeting,
Wisconsin Rapids

April 7, 2010

The Right Way To Go Geo: Residential & Commercial Buildings - Rothschild WI. Presenters are Manus McDevitt and Leo Udee.

April 8, 2010

The Right Way To Go Geo: Residential & Commercial Buildings - Green Bay WI. Presenters are Manus McDevitt and Leo Udee.

GeoComfort
Geothermal Systems
Live comfortably.™
www.geocomfort.com
888-436-3783

DRILLING SOLUTIONS

Introducing innovative solutions to the drilling industry.

D20x22Flex Series II
Flex Drill



Inspired by the voice of drillers and fueled by the Vermeer passion for innovative solutions, the Vermeer® D20x22Flex Series II Navigator® flex-angle drill is the industry's first drill capable of entry points from 18 to 90 degrees - and everywhere in between.

GM30 Grout Mixer



For use in residential and commercial geothermal loop installations, Vermeer offers the GM30 grout mixer. Powered by a 26-hp (19.4 kW) diesel engine with electric start, the GM30 is available with two pump options to meet your specific needs.

See us at the Wisconsin Geothermal Conference - March 17-18 - Wisconsin Rapids



West Salem
800-759-6997

Butler
800-964-6462

Little Chute
800-859-9220

Vermeer, the Vermeer logo and Navigator are trademarks of Vermeer Manufacturing Company in the U.S. and/or other countries. © 2010 Vermeer Corporation and Vermeer Wisconsin, Inc. All Rights Reserved.



Wisconsin Geothermal Association
455 Science Drive, Suite 200
Madison WI 53711



THE UNIVERSITY
of
WISCONSIN
MADISON

Design of Geothermal Systems

October 4-7, 2010

<http://epd.engr.wisc.edu/webL146>

Harold Olsen, Program Director
800-462-0876 or olsen@engr.wisc.edu



PLUMBING & HEATING, INC.

Let us complete all the outside portions of your geothermal job. We are experienced in all types of systems and have the necessary tools and purge carts.

262-642-7747

www.olearyplumbingandheating.com

2720 Buell Dr., East Troy, WI 53120 • Fax 262-642-3846



WATERFURNACE KNOWS THAT TRAINING MATTERS

WaterFurnace only invests in dealers passionate about products and service - not with simply being the cheapest. That's why WaterFurnace is the most recognized and respected name in residential geothermal. Or maybe it's because our units use the clean, renewable energy found in your backyard to provide savings up to 70% on heating, cooling and hot water. Or is it thanks to the industry's most efficient units and best warranty? Decide for yourself. Visit us at waterfurnace.com to find a local dealer... or be prepared to deal with a flood of your own."

WaterFurnace
Smarter from the Ground Up™



(608) 566-3272

scott.niesen@waterfurnace.com

waterfurnace.com