

Wind Turbine Generators: The Basics (plus tour!)

UW-Madison Wednesday Nite @ the Lab series: <http://www.uwalumni.com/wednitelab>

Date: **January 19, 2011**

Time: 7:00pm to 8:15pm

Speaker: Mitch Bradt, Program Director, UW-Madison
Department of Engineering Professional Development



Location: Room 1111, The Auditorium, 425 Henry Mall
or watch it live at: <http://www.biotech.wisc.edu/webcams/index.aspx>

Abstract

During the years 2005 - 2009, US wind energy installations experienced growth annual growth rates of 20-45% capacity increase. Mr. Bradt will present the fundamental technical background on this maturing energy source. This will include the mechanical and electrical sides of the energy conversion process, a sample of Annual Energy Production estimates as well as the concept of Capacity Factor. We'll take you to the top of a turbine to see the equipment inside-- hold onto your hat, it's 100 meters to the top! Then we'll climb back down and follow the electrons to the bulk transmission grid, onto the distribution grid, and finally to your house.

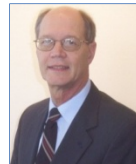
Capitol Heat & Power Plant Rebuild Project – No Coal on the Isthmus

Date: **January 20, 2011**

Time: 11:30am to 01:00pm

Speaker: Al Hagen and Scot Whitney, Henneman Engineering

Agenda: Informal networking will begin at 11:30am.
The presentation will begin at 12:00 noon.



Location: Rocky Rococo's Pizza
7952 Tree Lane (Beltline Hwy. at Mineral Pt. Rd.)
Madison, WI 53717 ... telephone: 608-829-1444



Menu: Pizza buffet, salad, and pop will be available: \$5 for IEEE members, \$10 for non-members.

RSVP: by January 17 to Charles Gervasi (cj@cgervasi.com). Register online at:
http://meetings.vtools.ieee.org/meeting_view/list_meeting/4533

Non-member guests are always welcome!

Abstract

This project proposes a rebuild of Madison's Capitol Heat and Power Plant. Proposal details: new gas/oil fired boilers; electric chillers; thermal energy storage tank delivers chilled water to the Capitol Building and nearby state-owned facilities. New electrical will be constructed to support the entire project. Rebuild must occur while maintaining current systems. This talk will discuss project conditions, challenges and solutions.

Biography

Al Hagen is a senior electrical engineer with more than 40 years of professional engineering experience. He is a registered professional engineer in six states. Al specializes in fire alarm systems, lighting and electrical distribution. He has worked with various clients including government, higher education and healthcare. **Scot Whitney** is a senior mechanical engineer with more than 20 years of professional engineering experience. He is a LEED® Accredited Professional and registered professional mechanical engineer in 14 states. Scot has worked with various clients, mainly in the government and higher education sectors.

IEEE Entrepreneurs & Consultants Network (ECN) Networking Meeting

Date: **February 3, 2011**

Time: 11:30am to 1:00pm

Purpose: Special Topic: iPhone and iPad Development Experiences.

Agenda: Informal networking will begin at 11:30am. Lunch provided by the IEEE.
The presentation will begin at 12:00 noon.

Location: Madison Area Technical College (MATC **West Campus**)
302 S. Gammon Road (Across from West Towne Mall)
Madison, WI 53717 ... Telephone: 608-246-6100



Parking: TBD.

Process: Members are encouraged to make introductions, describe endeavors, and make request for: contacts in target companies, needs, resources. Bring your elevator speech and rolodex!

RSVP: Tim Chapman (PrettyGoodGUIs@TrueNym.NET)

Monthly Section Meetings

The third Thursday of Jan.-May and Sep.-Dec. is reserved for a meeting to provide recent research, developments, trends and/or innovations in one of our membership's technical areas.

Section Meeting Schedule for 2011

(schedule subject to change)



January 19, Wind Turbine Generators.

January 20, Capitol Heat & Power Plant Rebuild Project.

February 17, TBD.

March 17, TBD.

April 21, TBD.

May 19, TBD.

August 18, TBD

September 15, TBD.

October 20, TBD.

November 17, TBD.

December 15, TBD.

Monthly Networking Meetings

The first Thursday of every other month is reserved for a meeting to provide networking opportunities for members who are consultants or entrepreneurs. Bring your elevator speech and rolodex!

Networking Meeting Schedule for 2011

(schedule subject to change)

February 3, iPhone and iPad Development Experiences.

April 7, IEEE Tools for Self Promotion.

June 2, SBIR Process and Panel.

August 4, Working on the Network.

October 6, Telepresence.

December 1, TBD.

Section Notes

We are pleased to begin our 102nd year, and are proud of our members' accomplishments and of our Section's history.

Selection of Officers

At the December monthly meeting, the IEEE Madison Section conducted its annual officer elections prior to the presentation:

2011 Officers

David Marca, Chair
dmarca@openprocess.com
Steve Schultheis, Vice Chair
ss@ieee.org
Charles Gervasi, Treasurer
cj@cgervasi.com
Charles Gervasi, Secretary
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prettygoodguis@truenym.net

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Craig Heilman
craigh@bugsoft.com
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rotter@ieee.org

Officers and members at large comprise our Board of Directors. Please feel free to contact any of them.

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IEEE Membership Level Upgrades

Those interested in upgrading their IEEE membership level should send their resumes or other information showing five years of significant performance in an IEEE-designated field to Charles J Gervasi (cj@cgervasi.com). Madison Section Board will attempt to find Senior IEEE members knowledgeable in the applicant's area of practice who may be able to provide references. You are invited to attend the informal networking portion of the monthly Section meetings (starting at 11:30am) to meet the Section Board members and discuss intentions.

2011 Section Board Members

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Charles Gervasi	Secretary
Timothy Chapman	Webmaster
Mitch Brandt	Member at Large
Clark Johnson	Member at Large
Dennis Bahr	Member at Large
Craig Heilman	Member at Large
Sandy Rotter	Member at Large

IEEE Madison Section Newsletter

Published 9 times per year (Jan.-May & Sep.- Dec.) by the Madison, Wisconsin Section of the Institute of Electrical and Electronic Engineers (IEEE), for its members in South-Central Wisconsin.

Online at <http://ieee-msn.truenym.net/>

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Our members have professional interests in computers, power engineering, signal processing, communications, industry applications and a number of other technical fields

For more information, contact Mitch Bradt at 608-263-1085 or bradt@wisc.edu.

Per issue rates:	1 Time	2 Times	5 Times	9 Times
1/16 Page (3.5x1.125)	\$53	\$46	\$42	\$40
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