

March 2008See us on the WEB at: <http://www.ewh.ieee.org/r2/susquehanna>**March 2008 Section Meeting****"Tidal and Wave Power – Projects, Recent Developments, and Possibilities"**

Join us for this month's talk. You will also have an opportunity to meet other members and enjoy a nice dinner.

- Date:** Tuesday, March 11, 2008
Time: 6:30 PM - Dinner
7:30 PM - Presentation
Dinner: Susquehanna Room in Myer Hall
Elizabethtown College
Elizabethtown, PA
Dinner Cost: \$12, \$6 for students
Program: Tidal and Wave Power – Projects, Recent Developments, and Possibilities
Presenters: Carl Atkinson III, P.E., Offer Project Manager, Voith Siemens Hydro Power Generation, York, PA
Contact: (by email if possible)
Dr. Troy McBride
717-361-3755
E-mail: mcbridet@etown.edu
RSVP by Wednesday 03/04/08 so we can get the catering count right for our hosts.

Wind, solar, biomass, geothermal, and hydroelectric power generation technologies often dominate alternative energy discussions. Power generation from ocean waves and tidal currents, however, show promise as a competitive alternative technology with zero emissions during operation. Ocean wave generation potential along the coastlines is estimated to average nearly 10 MW per km of coastline, similar to the energy density of a linear wind turbine array installed at sea. In this talk, we will introduce tidal and wave power, talk about how the current competing technologies for harnessing this power work, and discuss current demonstration projects and proposed installations. Additionally, we will talk about how Voith Siemens is involved with this, provide some estimates of cost, and discuss challenges to further development.

Directions

From Harrisburg: Take Route 283. Follow 283 East to Elizabethtown/Hershey exit and turn right at the end of the ramp onto Route 743 South. Travel south on Route 743 to

Elizabethtown. Turn left on Market Street (Route 230). Go past College Avenue and turn left onto Cedar Street. Follow directions from Cedar Street below.

From Lancaster: Travel west on Route 283 to the Elizabethtown/Rheems exit. Turn left at end of exit ramp onto Cloverleaf Road and proceed one mile to Route 230. Turn right and travel west to Elizabethtown. You will be on South Market Street. Several blocks past Lemon Street, turn right onto Cedar Street. Follow directions from Cedar Street below.

From York: Take Route 30 East. Get off after crossing the river and follow Route 441 north. Turn right on Route 743. You will go through Maytown and enter Elizabethtown. Turn left onto South Market Street. Travel several blocks and turn right onto Cedar street. Follow directions from Cedar Street below.

From Cedar Street to Myer Hall: You will see the college on your left. Park in the Elizabethtown Church of the Brethren parking lot at Mount Joy and Cedar Streets. Walk across Cedar Street to Myer Hall. Enter the Susquehanna Room by way of the ramp.

You can access a campus map for Elizabethtown College at <http://www.etown.edu/campustour/campusmap>

Professional Energy Code Seminar

A one day seminar Co-sponsored by The Central PA Chapter of ASHRAE, PA Department of Environmental Protection, and Governor's Green Government Council will be presented on Wednesday, March 19, 2008 in PA Department of Environmental Protection in Harrisburg.

As states and local governments adopt ANSI/ASHRAE/IESNA Standard 90.1, "Energy Standard for Buildings Except Low Rise Residential Buildings", and building owners require compliance, ASHRAE is responding to requests to provide in-depth training on the standard. The standard sets the minimum requirements for energy use in buildings except low-rise residential buildings and the methodology to attain these goals. It differs from past standards as it addresses not only new construction but also additions and renovations to existing facilities. This standard is also the sole mandatory minimum energy benchmark for the US Green Building Council Leadership in Energy and Environmental Design (LEED-NC®) program and for the Federal tax deductions available under the 2005 Energy Policy Act (EPACT). Those interested to know more can visit:

<http://www.depweb.state.pa.us/dep/cwp/view.asp?a=3&q=474491>.

Job Opening, Instructor

A job opening is available in ITT Educational Services, Inc. for a Computer Electronics, Engineering and Technology instructor. ITT is committed to helping men and women develop the skills and knowledge to pursue many opportunities in fields involving technology, healthcare, criminal justice, and business. The Computer Electronics, Engineering and Technology Instructor is responsible for providing quality instruction to students by ensuring student satisfaction through the classroom or laboratory setting according to the program objectives. If you are interested, you may contact Bob Klinger: Presklinger@aol.com.

Second Central PA Symposium on Signal Integrity

Mark your calendars for April 8, 2008. Building on the success of last year's inaugural symposium on signal integrity, the 2008 symposium will feature internationally recognized speakers discussing a range of topics, including high-speed connectors and EMC radiation. This will be an opportunity to hear about the latest developments in signal integrity from international experts and to exchange ideas. Signal integrity vendors will be also participating to show the latest test equipment. Please note that our IEEE Section is sponsoring this event. More information will be forthcoming in the next newsletter. For more information, contact Brenda Firestone (blf3@psu.edu), (717)-948-6538), Dr. Aldo Morales (awm2@psu.edu), or Dr. Sedig Agili (ssa10@psu.edu). For more information, please go to the Symposium's website at <http://php.scripts.psu.edu/dept/iit/cl/set/SignalIntegrity/>.

Useful Information Column

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Q/A-C Column

Do you have any questions or comments? Call, email or FAX it to our Chair at the above address.

Newsletter Mailing or WEB Page Notification

If you do not receive your Newsletter, please notify AB Shafaye mes121@psu.edu or Soheil Tofighi mtofighi@psu.edu. If you would like to convert from paper copy mailing of the Newsletter to WEB page delivery, please notify AB Shafaye, who serves as our Publisher.

Address Changes and Updates

There are several ways to correct member information with IEEE. They update their directory from the information you provide, and pass the changes to us monthly. Keeping your address information up to date will ensure accurate mailings.

There is a WEB based interactive "change of address" form at:

<http://services1.ieee.org/membersvc/coa/intro.htm>

You can send an email to: address-changes@ieee.org

Call IEEE Member Services at 1-800-678-IEEE

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