

October 2006

See us on the WEB at: <http://www.ewh.ieee.org/r2/susquehanna>**October 2006 Section Meeting****“Wireless Medical Implants”**

Plan to join us to meet other members, enjoy a nice meal, and attend a talk by Soheil Tofighi, this month's speaker.

- Date:** Tuesday, October 10, 2006
Dinner: 6:30 PM
Location: Susquehanna Room in Myer Hall
Elizabethtown College
Elizabethtown, PA
Program: Wireless Medical Implants
Speaker: Soheil Tofighi, PhD, Penn State Harrisburg
Time: 7:30 PM
Cost: \$15, free for students
Contact: Troy McBride, 717-361-3755
Email: mcbridet@etown.edu
RSVP (email if possible) by Tuesday 10/03/06 so we can get the catering count right for our hosts.
Menu: Spring Greens Salad with Strawberries, Strawberry Vinaigrette and Candied Pecans, Chicken Cerubi, Smashed Red Skinned Potatoes with Fresh Garlic and Herbs, Fresh Asparagus Spears, Chocolate and White Chocolate Mousse layered in glass with cookie garnish, Rolls / Butter, Coffee / decaf / tea/ water. (Vegetarian plate is possible if requested ahead of time.)
Notice: Please let us know of any special needs, e.g., wheelchair, diet restriction, etc.

Within the last decade, we have observed dramatic advances in telecommunication technology, semiconductor technology, and micromachining. Thanks to these advances, now, the future outlook for cost effective sensors, implanted in patients, that could provide internal physiological information, wirelessly, and in a simple clinical setting, is promising. Soheil will talk about challenges facing engineers developing such devices. In particular, he will address design issues of a wireless intracranial pressure (ICP) measuring device.

Soheil has over 12 years of research experience in RF/Microwave and antenna technologies. His current interest is on medical applications of these technologies. He is currently an assistant professor at PSH. Before joining PSH, he was a research professor at Drexel University,

Philadelphia, PA. He is a member of Technical Committee #10 of IEEE Microwave Theory and Techniques (MTT) Society and the IEEE-EMBS Committee on Man and Radiation (COMAR). He is also the newsletter editor of our Section. He holds a PhD in EE from Drexel.

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 other directions to Elizabethtown College at www.etown.edu/web/directions and find campus maps at <http://www.etown.edu/campustour/campusmap>.

September Meeting

On Tuesday, September 12th, Mr. Dennis Maloskey, PE, presented the Section with an extremely interesting presentation on the Energy situation and initiatives in Pennsylvania. Mr. Maloskey is currently the Director of Sustainable Engineering and Development for the Commonwealth's Governor's Green Government Council (GGGC) and was well informed about the Nation's and the State's energy directions. Of special interest was the impact of deregulation on the future electrical energy costs in Pennsylvania. Clearly, electrical energy costs will be going up.

Mr. Maloskey also discussed the current and future opportunities for both wind and biofuels in the Commonwealth. Obviously, there are going to be many challenges, and opportunities, ahead for both engineers and innovators. The level of interest in the speaker and topics was obvious based upon the number and complexity of questions presented by the attending IEEE members and students.

Requesting Your Consideration

The Section's officer group has an open planning meeting twice a year. The next meeting will occur on Tuesday October 24th around the 283/83 vicinity. This meeting is OPEN TO ANY INTERESTED MEMBER. What's in it for you? First, the cost of the dinner will be covered by the Section. Second, you'll get to meet a small group of interesting people, like yourself, as well. Third, you might find someone or something that enriches you personally or professionally; that's why we are IEEE members, after all. And finally, if you are so inclined, you might be asked (but only if you are interested) to volunteer to help us just a little (like maybe 1-2 hours a month) by playing some role in our Section, such as participation in the Program Committee, Professional Activities, Membership, or the Section leadership group. Thanks to our long history of capable leadership, we have a fine group of volunteers already in place, so the "many hands make the work go quickly" (was that the quote?) rule applies in our Section. If you want to attend or have questions, please email Stan Telson, telson@ieee.org, about your interest, by 10/10, to receive a formal invitation and the location details. If the date does not work for you, please email anyway, we will work something out.

Call for Nominations

Nominations are sought for Susquehanna Section Officer Positions (Chair, Vice-Chair, Treasurer, Secretary) for 2007. While several candidates are already in place due to succession planning, additional nominations should be sent no later than October 15, 2006 to Ed Simoncek at simoncek@ieee.org. Candidates should be Member grade, Graduate Student grade (new this year!), or above, in good standing with the IEEE. In the event of multiple candidates for any officer position, there would then be a ballot process.

"Meeting the Challenges of the 21st Century Engineer"

An IEEE Region 2 conference, 2006 IEEE MPAC-WIE, will be held on October 14 -15. Everyone is welcome; member,

non-member, male or female. The conference is headquartered at Embassy Suites Hotel at Baltimore BWI Airport:

1300 Concourse Drive
Linthicum, MD 21090

For more information, please visit the conference website (Registration, Hotel information, Program, Committee members contact information, etc.) at <http://www.ieee.org/region2/wie.htm>.

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 addresses.

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

Mail changes to:

IEEE
445 Hoes Lane
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