

November 2006See us on the WEB at: <http://www.ewh.ieee.org/r2/susquehanna>**November 2006 Section Meeting****“Quartz Crystal Oscillators”**

Join us this month for a talk on quartz crystal oscillators, presented by David Chandler. The talk will cover the different types of crystal oscillators and their applications. A tour of the manufacturing facility will follow the presentation.

Date: Tuesday, November 14, 2006
Dinner: 6:30 PM
Location: Chili's in Carlisle
Carlisle, PA
Program: Quartz Crystal Oscillators
Location: Vectron International in Mount Holly Springs
Speaker: David Chandler, Vectron International
Time: 7:45 PM
Contact: David Chandler, 717-486-6067, Email: dchandler@vectron.com.

Please respond via email preferably by November 7th and indicate whether you plan to attend the meal as well. Attendees pay for their own dinners at Chili's.

David Chandler (BS AEP Cornell University 1992, MENG EE Penn State Harrisburg 2005) joined Vectron International (then McCoy Electronics) in 1996, and has held various positions in the organization. He is currently a senior design engineer for Surface and Bulk Acoustic Wave Voltage Controlled oscillators. He is a member of the Susquehanna Section of the IEEE.

Directions

From Interstate 81 (Southbound): Take Interstate Route 81 South to Exit 47A (Hanover Street, formerly exit 14E). Turn right onto Route #34 South. Chili's is on the left three lights after the underpass (approximately 500 yards from underpass). To the plant, make a left back onto Route 34 South and go 5 miles to Mt. Holly Springs. Make a right turn onto Watts Street (last street before the railroad underpass). Turn right into the parking lot.

From Interstate 81 (Northbound): Take Interstate Route 81 North to Exit 47 (Hanover Street, formerly exit 14). Turn right onto Route 34 South. Chili's is on the left two lights after the exit. To the plant, make a left back onto Route 34

South and go 5 miles to Mt. Holly Springs. Go 5 miles to Mt. Holly Springs. Make a right turn onto Watts Street (last street before the railroad underpass). Turn right into the parking lot.

From Pennsylvania Turnpike (Route 76): Take Exit #226 (Toll) (Carlisle Exit, Route 11, formerly exit 16). Take Route 11 North 1 mile to Route 81 South. Follow directions from Interstate 81 (South bound).

The directions can also be viewed at:
http://www.vectron.com/about/dir_mhs.htm.

October Meeting

82 people (34 IEEE members, 1 student from PSU Harrisburg, 1 student from PSU York, 3 students from ITT Tech., 12 students from Millersville University, and 31 students from Elizabethtown College) attended the October meeting at Elizabethtown College. The evening consisted of a nice served meal and an interesting presentation on Wireless Medical Implants by Soheil Tofighi of Penn State Harrisburg (mtofighi@psu.edu).

The talk began with the current status, applications, and challenges of wireless biomonitoring, followed by a presentation of some of Dr. Tofighi's own research on developing an implantable device for Intracranial Pressure Monitoring. He showed the motivation for and design of a device, which would be implanted in a 12 mm burr hole in skull, measure intracranial pressure, and transmit a microwave signal back to a receiver. This device is being developed by Dr. Tofighi and his colleagues at Drexel University and is currently being tested in animals. The objective of this work that is sponsored by NIH is to place a permanent implant in patients with neurological disorders. Throughout the talk, he highlighted various engineering challenges such as design of low power electronics, antenna, and biocompatible packaging.

Wireless medical implants appear to be an interesting area of research and a great use of recent technological developments in microelectronics, sensor technology, and wireless communications. Slides for the talk can be found at:
<http://www.etown.edu/physics&engineering/news.htm>.

Professional Activities Committee

We seek your input on professional activities you'd like to happen within your Section. Possibilities include:

- An Engineering Job Fair.
- Career Transition, Workforce Issues, Retirement, or Financial Management Workshops.
- Consulting, Leadership, or Licensing Workshops.
- Continuing Professional Education.
- Professional Awareness Conference

Please contact Roy Hoffer, 717-314-6681, forensicingineer@ieee.org, with your ideas. Thank you!

2006 Tentative Schedule of Events

Tuesday, November 14
Tuesday, December 12

2007 Officers

At the 10/24 Section officer meeting, previously announced in this newsletter, our 2007 officer slate was confirmed as follows:

Section Chair - Aldo Morales
Section ViceChair - Sedig Agili
Treasurer - Hossein Jula
Secretary - Vittal Balasubramanian

The new officers will assume their roles effective 1/1/07. Congratulations !

Useful Information Column

Susquehanna Section Chair

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Vice Chair (Programs)

Aldo Morales, Sedig Agili
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Mohammad-Reza (Soheil) Tofighi
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Webmaster

David Sarraf
david.sarraf@paonline.com

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
P.O. Box 1331
Piscataway, NJ 08855-1331
FAX changes to 1-732-981-9667

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<p>Current Officers Chair Stan Telson Vice Chairs - Program Chairs Aldo Morales, Sedig Agili Treasurer Hossein Jula Secretary Vittal Balasubramanian Newsletter Editor Mohammad-Reza Tofighi</p>	<p>Awards Ernest Guenin Central PA Engineering Counsel Representatives Bob Klinger, Larry Brown Educational Activities GOLD Coordinator Local Professional Activities Bob Klinger</p>	<p>Webmaster David Sarraf Membership Development Art Van Gelder PACE Roy Hoffer Publisher AB Shafaye Student Activities Members at Large Omid Ansary</p>
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