

October 2009

See us on the WEB at: <http://www.ewh.ieee.org/r2/susquehanna>**October 2009 Section Meeting****"The Future of Ethernet: 40 Gigabit Ethernet and 100 Gigabit Ethernet"**

Join us for this month's talk to have an opportunity to meet with other members, listen to an interesting talk presented by John D'Ambrosia, and enjoy a nice dinner.

- Date:** Tuesday, October 13, 2009
Time: Dinner: 6:30 PM
Presentation: 7:30 PM
Program: The Future of Ethernet: 40 Gigabit Ethernet and 100 Gigabit Ethernet
Presenters: John D'Ambrosia, Force10 Networks
Place: Special Events Room, First Floor, Olmsted Building, Penn State Harrisburg, 777 West Harrisburg Pike, Middletown, PA 17057
Dinner Cost: \$20, half price for life members, free for students
Contact: To register and for additional information, contact Dr. Bob Gray, email: rxg31@psu.edu, phone: 717-948-6636
RSVP (preferably by Email) by Friday 10/09/09 so we can get the catering count right for our hosts.

The IEEE P802.3ba Task Force is developing 40 Gigabit Ethernet and 100 Gigabit Ethernet. The standard, scheduled for ratification in June of 2010, introduces two new rates for Ethernet, 40Gb/s and 100Gb/s, and several new physical layer specifications (PHYs). This presentation will provide an overview for the need of these speeds and PHYs. This presentation will also explore future developments of Ethernet and the potential for new physical layer specifications and rates.

As a senior scientist in the CTO Group at Force10 Networks, John D'Ambrosia focuses on components technology and leads the company's involvement in industry groups. John has been an active participant in the development of Ethernet-related technologies since 1999. At the present time, he is the chair of the IEEE P802.3ba Task Force, which is driving the standards development process for 40 Gb/s and 100 Gb/s Ethernet. John served as secretary for the IEEE 802.3ap Backplane Ethernet Task Force, and participated in the development of XAUI for 10 Gigabit Ethernet. John is a founder of the Ethernet Alliance

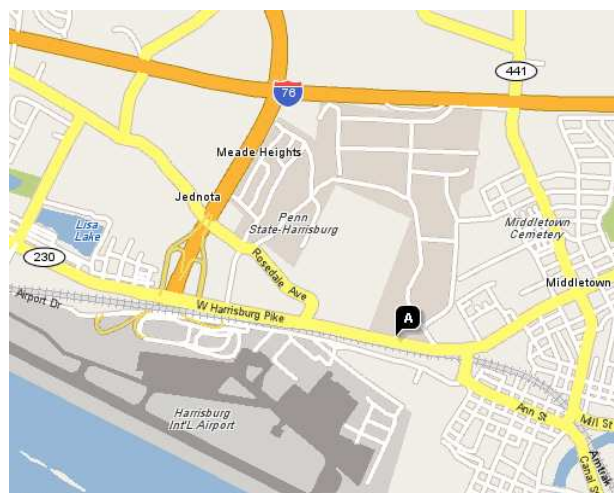
and has served as its director and secretary. John was the chair of the XAUI Interoperability work group for the 10 Gigabit Ethernet Alliance. For all of his efforts related to Ethernet, John was recognized by Network World in 2006, as part of its "50 Most Powerful People in Networking" list. John also acted as secretary for the High Speed Backplane Initiative and chair of the Optical Internetworking Forum's Market Awareness & Education committee. Prior to joining Force10, John was with Tyco Electronics for 17 years. John is an alumnus of Penn State Harrisburg and a member of the electrical programs' Industrial and Technical Advisory Board.

Directions

The entrance to Penn State Harrisburg is located on PA 230, west of Middletown. Proceed to the large parking lot behind the Olmsted Building. Arrangements will be made to avoid parking tickets. The Special Events Room is located at the first floor of the east side of the Olmsted building and is right next to the cafeteria.

From PA Turnpike (I-76): Get off at exit 247 (Harrisburg East). Follow PA 283 East toward the Harrisburg International Airport. Follow signs for the airport and the college. Before entering the airport complex, take the exit for PA 230. Turn left at the junction of 230. Proceed on 230 East for approximately 1 mile. The college entrance is on the left.

From Lancaster and Points East: Take Route 283 West toward Harrisburg. Follow signs for the airport and the college. Before entering the airport complex, take the exit for PA 230. Turn left at the junction of 230. Proceed on 230 East for approximately 1 mile. The college entrance is on the left.



IEEE's 125th Anniversary Celebrations

Mark your calendars for Tuesday November 10, 2009. IEEE Susquehanna section will be celebrating the 125th anniversary of our institution. We are planning for an exciting program; especially we will celebrate the many accomplishments of our distinguished members. More information will be forthcoming in the next newsletter. If you want to get involved with the event, please contact Sedig Agili ssa10@psu.edu, Robert Gray rxg31@psu.edu, AB Shafaye mes121@psu.edu, or Aldo Morales awm2@psu.edu.

2009 Tentative Schedule of Events

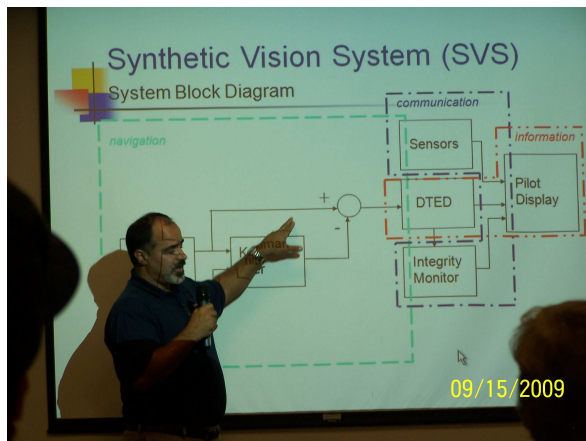
Tuesday, November 10
Tuesday, December 8

September Section Meeting

Dr. Gray gave an outstanding presentation to approximately 30 members and guests about his recent research and development of Synthetic Vision Technology for the Avionics Industry. Starting from his early years as an AF Avionics Specialist, Dr. Gray gained a deep appreciation for the critical need for pilots to be able to have timely and accurate information about the ground and airspace around them. This led him to devote a significant part of his career to solving this issue.

Those efforts have evolved today to a very capable system using cockpit displays to show real-time visuals of the immediate airspace around the aircraft. This is creatively linked to terrain data, integrity systems, and GPS information to avoid false images being produced that could lead to pilot errors during critical moments. Furthermore, the technology will greatly enhance the pilot's ability to clearly see the surrounding airspace during periods of reduced visibility.

Dr. Gray's presentation sparked the imagination of many members who were clearly interested in the technology and where they might utilize it.



Important Note: *Dinner no-shows will be charged if not canceled by October 9. Also, we cannot guarantee late dinner reservations. There is no charge for attending the talks or tour sessions of our section meetings provided that you register in advance and clearly specify that you are not interested in the dinner.*

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.

<p>Current Officers Chair Sedig Agili Vice Chair - Program Chair Robert Gray Treasurer Hossein Jula Secretary Vittal Balasubramanian Newsletter Editor Mohammad-Reza Tofighi</p>	<p>Awards Ernest Guenin Central PA Engineers Week Council Representatives Marjorie Rawhouser / Aldo Morales / AB Shafaye Bob Klingler Educational Activities Aldo Morales GOLD Coordinator Local Professional Activities Bob Klingler Webmaster David Sarraf Member at Large Arthur Van Gelder</p>	<p>Membership Development PACE Roy Hoffer Program Committee Bob Klingler Dave Sarraf Larry Brown Newsletter Publisher AB Shafaye Student Activities Marjorie Rawhouser Student Representative William F. Maney IV</p>
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