

Bulletin

IEEE Pittsburgh Section

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All announcements for publication in a particular monthly bulletin are due to the Editor by the 20th of the previous month. Monthly issues of the bulletin are posted on the web site www.ewh.ieee.org/r2/pittsburgh. The accuracy of the published material is not guaranteed. If there is any error, please bring it to the Editor's attention.

• From the Chair

Dear Members of IEEE Pittsburgh Section,

I hope that you are enjoying the summer. The Executive Committee (Excom) is also on summer break. The Excom will meet again on August 18.

Prof. Mike McCloud has moved from the Pittsburgh area. The Excom wishes him good luck in his new endeavor and welcomes Prof. Heung-No Lee as the new Chairman of the Signal Processing Chapter.

The Excom still needs help in reviving the Engineering in Medicine and Biology (EMB) Chapter. Please come forward and volunteer some of your valuable time. EMB is a valuable chapter and should not be lost. Also help is needed in the Electromagnetic Compatibility (EMC) Chapter that is just getting off the ground. Any help from you will be greatly appreciated. Please write to me at senkk@ieee.org or call me at (724) 696-1611. Thank you.

Kal Sen

• An Evening at PNC Park with Fireworks

Come out and enjoy an evening at PNC Park with the IEEE Pittsburgh Section. It will be Fireworks Night with the Pittsburgh Pirates hosting the Cincinnati Reds. Join PES and IAS members and guests for a fun-filled evening.

Date: Friday, August 26, 2005
Place: PNC Park –Section 323
Time: Game starts at 7:05PM

Tickets are \$16 each. Our seats will be in Section 323 on the third base side. Please reserve your seat(s) **by August 11** by contacting Andrew Novotny at (412) 351-4954 or at andrewnovotny@ieee.org. Please make checks payable to “IEEE Pittsburgh Section” and mail them to:

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• **Technical Job Placement Strategies**

Speaker: Mr. Matt Fenton, President, Oxford Technical Inc.
Date: Tuesday, August 16, 2005
Time: 6 PM
Place: University of Pittsburgh, 360 Benedum Hall
Food: Complimentary (no charge) light snack foods before and after the meeting

The Pittsburgh Section is pleased that Mr. Matt Fenton, President of Oxford Technical, a major technical consulting firm in the Pittsburgh area, will address our section. Mr. Fenton will clarify how IEEE members can best make use of the services of Oxford and similar placement firms. The purpose of this meeting is to give IEEE Members an edge in utilizing professional placement agencies. As a technical and professional society, one of IEEE's goals is to assist its members in their career development. This meeting is suggested for those Members who are unemployed, under-employed or seeking change. It is sponsored by the PACE committee.

Oxford Technical specializes in supplying technical professionals to engineering, architectural, biomedical, and manufacturing firms in Western Pennsylvania. Oxford serves both professional job seekers and corporations seeking professionals. Oxford's goal is to attain a perfect match between the position and the candidate.

Attendance is limited to the first 20 IEEE Members (any grade, any Section) who reserve space.

Deadline for reservations is Friday, August 12.

Reservations: Joe Kalasky (724) 838-6492 j.a.kalasky@ieee.org Kindly supply your name, telephone number, email address and IEEE Member Number. If you reserve and then cannot attend, please notify Joe Kalasky so that someone on the waiting list may attend.

• **Solid Oxide Fuel Cell Presentation and Tour**

Sponsored by: Life Member Chapter
Speaker: Robert Draper
When: Thursday, August 18, 2005 at 1:30 PM
Place: Siemens Westinghouse, George Westinghouse Technical Center
Building 601, Conference Room 1B26A

Siemens and Siemens Power Generation have been performing basic research and product development of an energy conversion technology that is clean, highly efficient and ideal for providing high quality power at small distributed sites. That technology is the solid oxide fuel cell or SOFC. These units are intended to provide substantial amounts of electrical power for local consumption and supplements to the grid. Mr. Draper will discuss the basic technology, the construction of the units, the intended applications, and the prospects for commercialization. The talk will be followed by a tour to inspect the prototype now under development.

Directions: The Center is easily accessed at Exit 10A of the Parkway East in Churchill Borough. The cafeteria in Building 401 is open from 11:30 AM to 1:00 PM and provides a convenient place for those attending the meeting to buy lunch before the meeting. The guard at the gate can direct you.

• Nuclear Power Plant Control Room Simulators

Place: Westinghouse Electric Company's Route 286 Facility
1740 Golden Mile Highway (Route 286), Monroeville
Date: Wednesday, September 28, 2005
Time: 6:30 PM - social with light food and pop, 7:00 PM - program

This meeting will be held at the Westinghouse Electric Company's facility on Route 286 in Monroeville, PA (about 1.5 miles past the junction of Route 22 and 286). This facility engineers the I&C systems and Control Rooms for nuclear power plants around the world.

This is a tour of the Westinghouse facility that actually engineers the control rooms and simulators for nuclear power plants. We are fortunate to be able to schedule this tour at a time when there is an actual hybrid control room simulator being assembled and tested on the floor. This upgraded control room simulator will be contrasted with the compact control room simulator that is used as the test bed for the design of new nuclear plant control rooms being built in other countries.

Please contact Dave Vaglia via email (davevaglia@ieee.org) or (724) 733-6513 if you would like to attend. This event is sponsored by the PES and IAS.

• Magnetics Society Distinguished Lecture Series III Dynamics in magnetic micro- and nanostructures

Speaker: Prof. Dr. Burkard Hillebrands
of Fachbereich Physik, Technische Universität Kaiserslautern
Place: Seagate Research Center Auditorium, Pittsburgh
Date: Thursday, September 29, 2005
Time: 11:30 AM - Social (with Lunch served), 12:15 PM - Technical Program

The lecture addresses the dynamics in homogeneously and inhomogeneously magnetized objects starting with an introduction to spin waves and the effects of finite dimensions. In inhomogeneous systems, the excitation spectrum is complex, and new phenomena like localization and tunneling of modes are discussed. The key points are illustrated by results obtained by space- and time-resolved Brillouin-light-scattering technique, which allows one to follow experimentally the propagation of spin wave packets and to present the results in an animated format. To conclude the lecture, the analysis of ultra-high-frequency dynamic properties of small magnetic elements such as squares and rings with spatial resolution in the 300 nanometer range and the potential application to new logic devices based on spin waves are presented.

Please RSVP to Charlotte.Wlodkowski@Seagate.com by Monday, Sep 26 to help us prepare the lunch.

Directions to Seagate Research Center:

Seagate Research Center is located at 1251 Waterfront Place, Pittsburgh, in the Strip District, across from the Heinz History Center and next to the Convention Center.

2005 Calendar Pittsburgh Section of IEEE

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Exec.Comm. Mtg.	20 Point Park Univ.	17 UPitt Oakland	17 CMU	21 UPitt Greensburg	26 Papa J's	16 UPitt Oakland	No meeting	18				
Section Mtg.		19 Robot Car Race		28 History Dinner								
Life Member	Westinghouse Museum tour & Nuclear Pgm					23 Distributed Generation		18 Siemens Fuel Cells				
Communication			25 New Tech. for Tele. Mon.									
Computer			16 Nxt Gen Search Eng									
EMB												
PES/IAS	26 Adaptive Identification	23 Rail Guns	30 Project Management	28 Electric Transmission: End of an Era	31 Wind Farm Tour	20 Robot Servicing of Hubble 29 Shielding Theory	27 Electric Vehicles and the Land Speed Record	26 Pirates game	28 Nuclear Control Room simulators			
Magnetics			31 Half Metal Spin Torque	29 Magnetic Recording				29 Dyna in micro & nano				
Robotics					5 Miniature Micro/Nano Robotics	20 Robot Servicing of Hubble						
Signal Processing				20 Wireless Ntwk Des.								
Consultants Network				26 Contract Employment	24 Consult Acct reqmt.	28 Non-disc. Agreement	26 Net-working					
GOLD					21 1st mtg							
Prof Activities (PACE)								16 Job Placmnt Strat.				
Students Activities				15 GE Plant tour								