



Phil's Quill

This month, one of our activities is the annual Pittsburgh Section Awards Dinner. Our speaker for this year is Joseph Cioletti, Director of Operations, MAGLEV, Inc. This consortium of private and public corporations has just won a grant from the Department of Transportation to do pre-construction engineering for a proposed high speed Maglev rail line between Greensburg and the Pittsburgh International Airport. I am sure we will have of plenty of questions for Mr. Cioletti, of both a technical and economical nature.

Our Awards Dinner usually has a history theme, but this time we are focusing on a future project that may impact Pittsburgh with a new technology. However, this fits into Pittsburgh's past as well. Mr. Cioletti once worked for Westinghouse Transportation, now known as Adtranz. George Westinghouse was responsible for several other companies like Westinghouse Air Brake and Union Switch and Signal that made rail travel possible.

Another area in which Pittsburgh has always been on the forefront is advances in medicine. We are excited that the Pittsburgh Section has inaugurated a new chapter of the Engineering in Medicine and Biology Society, thanks to Bob Brooks, the Chapter Chair. See the announcement in this bulletin for information on their first meeting with Dr. Marlin S. Heilman speaking.

By the time you read this, the Computer Society will have visited one of Pittsburgh's "new technology" companies, FreeMarkets Inc. They are just the latest in a long line of Pittsburgh's leaders in innovation.

- Philip Cox

Pittsburgh Section Annual History & Awards Dinner

High-Speed Maglev: An Update on the Pennsylvania Project



Joseph T. Cioletti, P. E.
Director of Operations, MAGLEV, Inc.

MAGLEV, Inc., a consortium of private and public corporations in conjunction with the Port Authority of Allegheny County, is performing preconstruction engineering for the Federal Railroad Administration for a proposed initial US deployment of the Transrapid high-speed maglev system in the Pittsburgh region, called the Pennsylvania Project.

Mr.Cioletti started his career as a design engineer for Westinghouse Transportation, now known as Adtranz, where he designed software and electronics for both propulsion and automatic train control systems. He has worked for both small and large entrepreneurial high technology companies in areas such as advanced display technology development; nuclear power plant control systems; naval shipboard security systems; and an electromechanical aircraft launch system for the Navy where he gained an interest in maglev.

While managing a Process Automation Department and serving on an intellectual property committee, he recognized MAGLEV, Inc.'s long-term entrepreneurial opportunities and joined the company nearly six years ago. Mr.Cioletti holds BSEE and MSEE degrees from the University of Pittsburgh. He is a member of the IEEE and registered Professional Engineer in the Commonwealth of Pennsylvania.

Agenda

- 6:30 Social
- 7:00 Dinner
- 7:45 Section Awards
- 8:00 Program and Discussion
- 9:00 Adjourn

Menu

- Boston Baked Scrod or Chicken Cordon Bleu
- Twice Baked Potato
- Vegetable Medley
- Tossed Salad
- Apple Pie
- Beverage

- Place: APICS Castle, Wilmerding
- Date: April 24th, 2001
- Dinner: \$15 per Person, \$25 per Couple
- Program: No Cost

For reservations or information, contact Tom McDermott at (412) 650-9719, or t.mcdermott@ieee.org.

Advanced payment for dinner is needed by Friday, April 20. Please make check payable to "Pittsburgh Section IEEE", and mail to Tom McDermott, 1800 Jefferson Ridge Drive, Jefferson Hills, PA, 15025. Be sure to indicate your entree choice, and include a phone number or email address. There is no charge for just attending the program.

Section News – Fellow Member Advancements

The Pittsburgh Section has been notified that one of its members has been elevated to the Fellow Status. Fellow is a very distinguished acknowledgment by the IEEE. The IEEE Grade of Fellow is conferred by the Board of Directors upon a person of outstanding and extraordinary qualifications and experience in IEEE designated fields, and who has made important individual contributions to one or more of these fields. A brief citation is issued to new Fellows describing their accomplishments and the total number selected in any one year does not exceed one-tenth percent of the total voting Institute membership. For 2001, a total of 256 members have been selected.

James F. Hoburg of Carnegie Mellon University has been elevated to IEEE Fellow for contributions to the understanding of the interactions between electromagnetic fields and liquids, gas/particle flow, and magnetic shielding.

Section News – Senior Member Advancements

The IEEE Admission & Advancement (A&A) Committee meets on a regular basis throughout the year to review nominations for the level of Senior Member. The results of the meeting are published and the sections are notified. The Pittsburgh Section Executive Committee would like to recognize the members who have been elevated to the level of Senior Member throughout the past year.

<i>Member</i>	<i>Technical Society Affiliation</i>	<i>Date</i>
Steven D. Cochran	Computer Society	March 2000
Michael G. Christel	Computer Society	March 2000
John D. Lafferty	Information Theory Society Signal Processing Society	May 2000
Joseph W. Schaad	Communications Society	September 2000
Michael A. Erdmann	Robotics and Automation Society	November 2000
Changfeng Tai	Engineering in Medicine & Biology Society	February 2001
Lifeng Yang	Industry Application Society Power Engineering Society	February 2001

If you have 10 years experience (including up to 5 years counted for college), and feel you would like to advance your membership status to Senior Member, please contact a member of the Pittsburgh Section Executive Committee. They will assist you in the nomination process. More information, and all of the necessary forms can be found at www.ieee.org/membership/upgrade.html. You can nominate yourself or you can nominate a person you know that is eligible. Additionally, the Executive Committee or local chapter of a Society you belong to can handle your nomination.

IAS Annual Meeting – October 2002

Pittsburgh will host the 2002 IAS Annual Meeting. Planning is currently underway, and has been for quite some time now. Steve Swencki is the General Chair for the meeting. Several other members of the Pittsburgh Section have volunteered to chair the numerous committees needed to organize such an event. At this point in time there is a need for additional volunteers to help fill out these committees and help the individuals who have stepped forward as chairs. Please look at your commitments, and try to dedicate some of your time to help this event be successful for the Pittsburgh Section, the Industry Application Society, and your IEEE.

If you would like more information on this event, or are able to dedicate some of your time, please feel free to contact the general chair Steve Swencki at (412) 578-2725, steve.swencki@ieee.org or Mike Boccabella at m.boccabella@ieee.org.

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Engineering in Medicine and Biology Society (EMBS)

Pittsburgh Chapter Inaugural Meeting Patient Wearable Automatic Defibrillator

Dr. Marlin S. Heilman
Vascor, Inc, Founder, Chairman & CEO



The Executive Committee of the IEEE Pittsburgh Chapter for Engineering in Medicine and Biology Society proudly announces their inaugural meeting.

The Pittsburgh Chapter of the Engineering in Medicine and Biology Society of the IEEE is being established to locally advance the application of engineering sciences and technology to medicine and biology, promote the profession, and provide leadership for the benefit of its members and humanity by disseminating knowledge, setting standards, fostering professional development, and recognizing excellence. We plan to accomplish these goals by providing programs of interest to the industrial, research, and educational communities.

This first meeting will be a get acquainted session, as well as a forum for some interactive discussion on what the chapter is and where it will go in the future. In addition, Dr. Marlin S. Heilman will be the distinguished guest, speaking about the Patient Wearable Automatic Defibrillator.

Dr. Heilman is the Founder, Chairman and CEO of Vascor Inc. This company was started in 1986 to develop a fully implantable heart assist system with arrhythmia control. Vascor employs a number of former Medrad/Intec personnel. During the years of 1964 through 1985, Dr. Heilman has held various positions in the group of companies Medrad/Intec, Medrad Holdings, Intec Systems, and Medrad Inc. He has maintained active participation in product development throughout this period. Intec Systems developed and obtained FDA approval for the first implantable cardioverter defibrillator (ICD). ICD devices have now been implanted in more than 200,000 patients with annual sales worldwide of over \$1 billion.

Place: University of Pittsburgh
Center for Biotechnology/Bioengineering
300 Technology Drive
Pittsburgh, PA 15219
Date: April 26th, 2001
Program: 7:00 PM: Light refreshments
7:30 PM: Meet Executive Committee
8:00 PM: Talk by Dr. Marlin S. Heilman
9:00 PM: Adjourn

The Center for Biotechnology/Bioengineering is located just off of the Bates Street Exit of Parkway East (376). It is adjacent to Union Switch and Signal.

Traveling inbound on the Parkway East: Take Parkway East (376) through the Squirrel Hill Tunnels. Continue on the Parkway to the Bates St. Exit (Exit 7B PA-885 S to Glenwood). Turn Right onto Bates St. Continue on Bates St. across Second Ave. Turn Right onto Technology Drive.

Traveling inbound on the Parkway West: Continue on the Parkway to the Grant St Exit. At the second light, turn right onto Court Place. Court Place will turn into Second Ave. Stay on Second Ave. until it intersects with Bates St. Turn right onto Bates St., then right onto Technology Drive.

For more information, contact Bob Brooks at (412) 767-2400, extension 3543 or rbrooks@medrad.com.

Pittsburgh Section Web Site: Don't forget about our web site at www.literati.com/ieee. Past bulletins are available on the web, as well as how to contact officers of the Pittsburgh Section. If anyone has suggestions about information they would like to see on our web site, please send suggestions to Mike Boccabella at m.boccabella@ieee.org.

E-Mail Distribution: Every month, more members sign up for electronic distribution for The IEEE Bulletin. E-mail distribution saves the section postage, and you get your bulletin earlier in the month. To sign up for this, send a message to Mike Boccabella at m.boccabella@ieee.org. Include your name and member number and look for your bulletin to start coming to your computer.

2000-2001 Pittsburgh Section IEEE Program Calendar

Group/Society	September	October	November	December	January	February	March	April	May
ExecCom Phil Cox (412) 820-1302	21 Point Park	19 WVU	16 Point Park	21 Point Park	18 Point Park	15 Point Park	12 CMU	19 Point Park	17 Point Park
Section Mtngs Phil Cox (412) 820-1302	16 Fall Picnic	25 SPICE Tutorial	1, 8, & 15 SPICE Tutorial			National Engineers Week		24 History Dinner	
Upper Mon Stephanie Caswell (304) 293-0405									
Industry Applications Harry Hagerty (412) 487-8235	19 Fuse Protect. Medium Volt. Power Sys.				16 K-Factor Distribution Transformer				
Magnetics Miklos Gyimesi (412) 268-2308									
Computer Gerry Kumnik (412) 393-8223		26 Distributed Architecture					20 FreeMarkets		
Communication Prashant Krishnamurty (412) 624-5144					19 Wireless Access Networks				
Power Eng. Gregory Reed (724) 772-2158									
Membership Jim Karn (412) 732-9000									
Signal Processing Pat Loughlin (412) 624-9685		16 Excising Interference							
EMBS Robert Brooks (412) 767-2400 Ext. 3543								26 Patient Wearable Defibrillator	

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