



## Phil's Quill

As I write this column, we have just been having an August heat wave. But it's time to start thinking of fall events. And we have some exciting events coming up, starting in September.

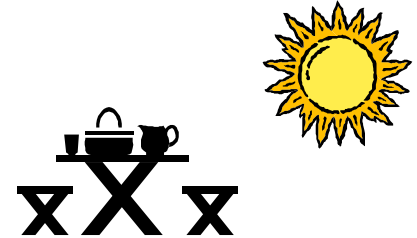
First, it's always fun to get together for our now annual fall picnic. This has become our fall kick-off event where we have a chance to meet members and their families, play games like softball, Frisbee, and children's games, discuss politics, local sports teams rivalries, or what we would like to see the IEEE doing in the coming year. See the announcement in this bulletin for details.

Another thing the Executive Committee enjoys doing is meeting with the area college students. We have two opportunities to do that this fall. On September 20<sup>th</sup>, we will have our meeting at the University of Pittsburgh, where we will have our usual business meeting, followed by an informal get together with the students. We will share our experiences in the real world of engineering and offer any words of wisdom we can. We plan to have a similar meeting in October with the students at West Virginia University.

Also, look for the preliminary information on the tutorial on Wireless Technology, to be held weekly from October 22<sup>nd</sup> to November 19<sup>th</sup>. This is sponsored by the Communications Society, and is being taught by professors from the Telecommunications Program in the University of Pittsburgh. This should be interesting, as it will cover everything from modulation techniques to wireless LANs.

- Phil Cox

## Fall Picnic Saturday, Sept. 22nd



Your entire family is invited to attend our 4<sup>th</sup> Annual IEEE Pittsburgh Section Fall Picnic. A pavilion in North Park has been reserved for the day. The section will provide hamburgers, hot dogs, buns, condiments, and soft drinks. Each member that is attending is asked to bring a covered dish that will serve 10-12 people.

Activities are planned for children based on age and number of children attending. Also in store is a softball game for the adults. Bring your baseball glove (and bat if you have one) to join the fun. The picnic will start at noon, and food will be served around 1:00pm. Games are scheduled for after lunch.

Reservations are required so the correct amount of food can be purchased. Please contact Carol at the Engineers Society of Western Pennsylvania at (412) 261-4300 from 8 to 5 or Michelle Antantis (412) 393-2648 before September 14<sup>th</sup> to RSVP. When you call, please let them know how many will be attending, the number and ages of the children attending, and what covered dish you will bring.

Place: The Cabin, North Park  
Date: September 22<sup>nd</sup>, 2001  
Start Time: 12:00 Noon  
Lunch: 1:00 PM

Directions: From 279 North, take the McKnight Road Exit. Follow McKnight Road for approximately 6 1/2 miles to the Yellow Belt. At the end of the exit ramp, make a right onto Ingomar Road. Follow Ingomar Road for about 2 miles. After you enter the park, the Cabin (old Boy Scout Cabin) will be on your right. If you come to an intersection with a traffic light (Ingomar/Wildwood & Babcock), you just passed it.

## Section News

Welcome back to another year of The Bulletin. The current publication schedule for the 2001-2002 year is September, October, November, January, February, March, and April. A May bulletin will be published if there are any activities. A December bulletin is never published due to the holidays.

If your group has an announcement for The Bulletin, please forward it to Mike Boccabella at [m.boccabella@ieee.org](mailto:m.boccabella@ieee.org), or call (724) 387-1934. All information has to be in by the 10<sup>th</sup> of the month before publication. For October, please have all information in by September 10<sup>th</sup>.

If you would like to receive the bulletin via e-mail, please send your request to [m.boccabella@ieee.org](mailto:m.boccabella@ieee.org). Please consider doing this. E-mail distribution will save postage for the section. Your bulletin will be e-mailed to you earlier, and it will be in Adobe PDF format. This format is used extensively on the World Wide Web. Free readers are available to view and print the bulletin. Check out previous bulletins on our web-site [www.literati.com/ieee/bulletin](http://www.literati.com/ieee/bulletin). A link to Adobe Reader is also available at this location.



**IEEE Pittsburgh Section**  
**Tutorial on Wireless Systems and Technologies**  
 Professors from the Telecommunication Dept  
 University of Pittsburgh

The IEEE Communications Society Pittsburgh Chapter along with the IEEE Pittsburgh Section is sponsoring a tutorial on Wireless Systems and Technologies to be held during October/November 2001. The course will cover the background material and aspects of modern wireless systems and technologies spanning radio propagation, modulation, coding, spectrum regulation, frequency planning, mobility management, cellular telephone networks, wireless data networks, wireless LANs and PANs. Professors from the Telecommunications Program at the University of Pittsburgh will teach the tutorial.

Oct. 22 <sup>nd</sup>	Wireless Networks and Systems/Analog Modulation and Digital Transmission
Oct. 29 <sup>th</sup>	Radio Propagation Fundamentals/Digital Modulation and Coding in Wireless
Nov. 5 <sup>th</sup>	AMPS/Intersystem Operation and Mobility Management
Nov. 12 <sup>th</sup>	GSM and GPRS/Wireless Local Area Network
Nov. 19 <sup>th</sup>	Spectrum Regulation and Policy Issues/Wireless Personal Area Networks

Handouts of the presentations in class will be made available on the web in Acrobat PDF or Microsoft Powerpoint format and they will be handed out as hard copies in class. Please visit the course website [www.tele.pitt.edu/~comsoc/wireless\\_tutorial.html](http://www.tele.pitt.edu/~comsoc/wireless_tutorial.html) for more details.

Students should have knowledge of Fourier Transforms, basic communication theory, calculus and probability. Access to a scientific computation software package (Matlab or MathCAD) is necessary.

Attendees will earn 1.0 Continuing Education Unit (CEU) if they attend 4 of the 5 evenings and submit a completed set of non-graded exercises.

- Place: Tollgrade Facility, Cheswick PA
- Date: October 22<sup>nd</sup> and 29<sup>th</sup>, November 5<sup>th</sup>, 12<sup>th</sup>, and 19<sup>th</sup> 2001.
- Program: 6:00 to 9:00 PM
- Cost: \$50 for IEEE members, \$75 for others

To register, please send a check payable to "Pittsburgh Section IEEE" to Tom McDermott, 1800 Jefferson Ridge Drive, Jefferson Hills, PA 15025. Please indicate your IEEE member number on your check. For more information, contact Prashant Krishnamurthy at [prashant@tele.pitt.edu](mailto:prashant@tele.pitt.edu).

**VOLUNTEERS NEEDED FOR THE FUTURE CITY COMPETITION**

The Engineer's Society of Western Pa. (ESWP) in conjunction with the Carnegie Science Center will present the Future City Competition 2002 in the Pittsburgh area.

The Future City Competition, asks middle school students to create -- first on computer and then in large, three-dimensional models -- their visions of the city of tomorrow. Engineers of all disciplines are needed to volunteer as mentors for the competition

As a mentor, you will share your engineering skills in helping to develop teamwork, problem solving and applied math and science. You will work with a team of (3) students and a teacher in developing a city of the future on the SimCity computer program. For the regional competition in January, you will help the team to build a model of one portion of their city, and prepare a presentation to be evaluated by a team of judges. We will try to match volunteer mentors with schools near their home or the work place.

If you are the parent of a Middle School student (7th or 8th grade), this is an excellent opportunity to spend time with your children in a learning project. The Competition begins this September - October. More information is available online. Visit the ESWP website at <http://www.eswp.com/monthly1.htm>.

If you are interested in volunteering or have any questions, please call or email:

- Carl Schwartz (412) 374-3678 [schwarcw@westinghouse.com](mailto:schwarcw@westinghouse.com)
- Amy Robeson (412) 237-1640 [robersona@csc.clpgh.org](mailto:robersona@csc.clpgh.org)

<p><b>Section Officers</b>          Chair – Phil Cox  <a href="mailto:p.e.cox@ieee.org">p.e.cox@ieee.org</a>          (412) 820-1302</p> <p>Vice-Chair – Miklos Gyimesi  <a href="mailto:miklos.gyimesi@ansys.com">miklos.gyimesi@ansys.com</a>          (412) 268-2308</p> <p>Secretary – Elena Schreiber  <a href="mailto:Schreiber_elen@adtranzna.com">Schreiber_elen@adtranzna.com</a>          (412) 884-7774</p> <p>Treasurer – Larry Hornak  <a href="mailto:hornak@cemr.wvu.edu">hornak@cemr.wvu.edu</a>          (304) 293-6371 ext. 515</p> <p><b>Chapter Chairs</b>          Communication – Prashant Krishnamurthy  <a href="mailto:prashant@tele.pitt.edu">prashant@tele.pitt.edu</a>          (412) 624-5144</p> <p>Computer - Gerry Kumnik  <a href="mailto:102110.336@CompuServe.com">102110.336@CompuServe.com</a>          (412) 487-1430</p> <p>Industry App. - Harry Hagerty  <a href="mailto:hhagerty@benshaw.com">hhagerty@benshaw.com</a>          (412) 487-8235</p> <p>Magnetics – Miklos Gyimesi  <a href="mailto:miklos.gyimesi@ansys.com">miklos.gyimesi@ansys.com</a>          (412) 268-2308</p> <p>Power Eng. - Gregory Reed  <a href="mailto:Gregory.Reed@meppi.mea.com">Gregory.Reed@meppi.mea.com</a>          (724) 772-2158</p> <p>Robotics - Guy Nicoletti  <a href="mailto:nicolett+@pitt.edu">nicolett+@pitt.edu</a>          (724) 836-9922</p> <p>Signal Proc. - Patrick Loughlin  <a href="mailto:pat@ee.pitt.edu">pat@ee.pitt.edu</a>          (412) 624-9685</p> <p><b>Committees</b>          Awards – Michelle Antantis          (412) 393-2308</p> <p>Bulletin Editor - Mike Boccabella  <a href="mailto:m.boccabella@ieee.org">m.boccabella@ieee.org</a>          (724) 325-1776</p> <p>Consultant Net – George Crawford  <a href="mailto:gwc2@psu.edu">gwc2@psu.edu</a>          (412) 741-9643</p> <p>GOLD – Errin Miller  <a href="mailto:ebmiller@ieee.org">ebmiller@ieee.org</a>          (724) 459-6406</p> <p>PACE – Tom Dionise  <a href="mailto:tom.dionise@ieee.org">tom.dionise@ieee.org</a></p> <p><b>Directors</b>          Hany Ammar  <a href="mailto:Ammar@cemr.wvu.edu">Ammar@cemr.wvu.edu</a>          (304) 599-1018</p> <p>Phil Cox  <a href="mailto:p.e.cox@ieee.org">p.e.cox@ieee.org</a>          (412) 820-1302</p> <p>Larry Hornak  <a href="mailto:hornak@cemr.wvu.edu">hornak@cemr.wvu.edu</a>          (304) 293-6371 ext. 515</p> <p>Nigel McQuin  <a href="mailto:n.p.mcquin@ieee.org">n.p.mcquin@ieee.org</a>          (412) 824-2165</p> <p>Steve Swencki  <a href="mailto:steve.swencki@ieee.org">steve.swencki@ieee.org</a>          (412) 578-2725</p>
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## An Open Letter to Members of the Pittsburgh Section

The IEEE Pittsburgh Section and the Industry Applications Society (IAS) Pittsburgh Chapter are pleased to host the 37<sup>th</sup> Annual Meeting of the IAS at the OMNI William Penn Hotel October 11-19, 2002. This meeting draws over 1000 attendees to the technical program and meetings of the many Industry Technical Committees and Standards Working Groups of the IAS. A committee from the Pittsburgh Section will do planning and staging work for the conference.

The Pittsburgh Section has hosted the IAS Annual Meeting in 1967 (2<sup>nd</sup>), 1974 (9<sup>th</sup>), and 1988 (23<sup>rd</sup>) - each one a huge success. Our ambition is to make the 2002 event the "best ever". Although the conference is still a year away, planning is under way. The Executive Committee for the conference has been meeting since June of 1999 to get the early planning done. The call for papers has already been announced, and a talk and slide show to formally introduce the conference will be presented at the 2001 IAS Annual Meeting in Chicago, September 30<sup>th</sup> - October 5<sup>th</sup>.

A team of dedicated members is paramount to ensuring the conference's success. Members of the Pittsburgh Section have already stepped up to begin filling in the Executive Committee. There are still a couple of vacant slots in need of a volunteer. In addition to the Executive Committee volunteers, we will need quite a few people to help fill out the committees as listed below. The committees for the conference, and their responsibilities, will consist of the following:

Executive Committee -	Overall Annual Meeting management
Industry Relations -	Solicit industry support and Volunteers, Exhibits
Administration and Finance -	Financial Management and Operations
Registration -	Conference registration, information processing
Technical Program -	Schedule facilities, coordinate with IAS Technical Program chair, Conference Proceedings.
Logistics -	Coordinate all special services, events, facilities
Communications -	Press releases, media contact, PR, Website
Special Events -	Guest activities, technical tours, social activities

The Pittsburgh Section consists of over 2500 members. Seventy-five members, including fifteen responsible chair/co-chair persons are needed to make the meeting a most memorable one for all that attend. Ray Valentine has already volunteered his support as Financial Chairman, and Tony Furfari has offered his years of experience and expertise as Advisor and member of the Executive Management Committee. Tom Dionise is the Technical Programs Chair, Bob Anticole has volunteered for the Special Events chair, and Mike Boccabella is the Communications Chair. Several other Pittsburgh section members have volunteered to be members of one or more committees.

On behalf of the Pittsburgh Section and the IAS Chapter, we solicit your support by volunteering for any of the above chair, co-chair, or committee positions. Please contact Tony Furfari (724) 873-0828 or me to pledge your support. The Annual Meeting is just one year away, so please ACT Now!!

Sincerely,



Steve Swencki  
General Chairman  
2002 IAS Annual Meeting Committee

Phone: (412) 578-2725  
email: [steve.swencki@ieee.org](mailto:steve.swencki@ieee.org)

Cutler-Hammer  
2000 Technology Drive, Suite 350  
Pittsburgh, PA 15219

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## 2002 Pittsburgh International Science and Technology Festival

The 2002 Pittsburgh International Science and Technology Festival is looking for several volunteers to help brainstorm ideas for use in the festival. Hands on projects and volunteers are needed to help children during the workshops. Workshop facilitators (these individuals will receive some compensation) are also needed to lead the workshops and explain the details of the material to the participants. Also, people who are able to train others in the proper use and safe operation of soldering irons are needed.

If you would like to participate, or would like more information about this program, please contact Randy Micheletti, Program Manager, 2002 Pittsburgh International Science and Technology Festival at (412) 237-3335, or by e-mail at [michelettir@csc.clpgh.org](mailto:michelettir@csc.clpgh.org).

## 2001-2002 Pittsburgh Section IEEE Program Calendar

Group/Society	September	October	November	December	January	February	March	April	May
ExecCom Phil Cox (412) 820-1302	20 Pitt	18 WVU	15 Point Park	20 Point Park	17 Point Park	21 Point Park	21 Point Park	18 Point Park	16 Point Park
Section Mtngs Phil Cox (412) 820-1302	22 Fall Picnic	22, 29 Wireless Tutorial	5, 12, 19 Wireless Tutorial			National Engineers Week		History Dinner	
Upper Mon Stephanie Caswell (304) 293-0405									
Industry Applications Harry Hagerty (412) 487-8235									
Magnetics Miklos Gyimesi (412) 268-2308									
Computer Gerry Kumnik (412) 487-1430									
Communication Prashant Krishnamurthy (412) 624-5144		22, 29 Wireless Tutorial	5, 12, 19 Wireless Tutorial						
Power Eng. Gregory Reed (724) 772-2158									
Membership Jim Karn (412) 732-9000									
Signal Processing Pat Loughlin (412) 624-9685									
PACE Tom Dionise									

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