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Robotics Tournament Turns Middle School Kids On to Technology

Background: FLL (First Lego League) is a robotics competition for kids 9 – 14 years. It is organized by FIRST (For Inspiration & Recognition of Science & Technology). In 2006, nearly 90,000 kids worldwide participated on 8846 teams.

ORTOP will run about 24 local qualifying FLL tournaments across Oregon and in Vancouver in early December 2007, followed by 2 state FLL championship tournaments in mid-January 2008. Local qualifying tournaments will be held in Portland, Hillsboro, Oregon City, Wilsonville, Vancouver, Salem, Corvallis, Eugene, Roseburg, Klamath Falls, Bend, & La Grande.

This is ORTOP's 7th season. In 2006, 2480 kids participated on 344 teams at 21 local tournaments and the championship.

Mission: Get kids excited about science and technology. Allow them to apply hands-on problem solving to real-world current problems in a miniature engineering project team.

At each tournament, teams have 3 opportunities to solve the challenge missions on the competition table with their robot. Competition runs are managed and scored by the referee team. The judging team assesses the technology behind the team's robot, their research project and teamwork.

2007 Challenge: Power Puzzle – Energy Resources, Meeting Global Demand.

How do our personal energy choices to heat our homes, fuel our cars, charge our cell phones, power our computers, or even download music to our iPods impact the environment, economy, and life around the globe? Which resources should we use and why? Explore how energy production and consumption choices affect the planet and our quality of life today, tomorrow, and for future generations. Can FIRST LEGO League teams find the ultimate solution to this global Power Puzzle?

ORTOP - <http://www.ortop.org>

FLL Power Puzzle Challenge
www.firstlegoleague.org/default.aspx?pid=70

Oregon Incubator TV (OTBC TV) Online



OTBC TV live streaming of Lunch and Learn events to the web, is up and running in Beta test mode. The last two Lunch and Learns have been streamed using the Ustream.tv service:

- Coops: What are they?
- Expanding your Business Globally

You can see those programs (as recorded by Ustream -- so you can see what the live stream looked like) at our [OTBC TV](#) page. That's the same page to go to for viewing the live Lunch and Learns.

Entrepreneurs can come to Lunch and Learn events in person and get the additional benefit of networking -- or view the programs live on the web. And since the web stream has a chat room connected to it, they can even ask questions from the comfort of their desk!

And during the Beta test -- OTBC TV is free! Just go to OTBC TV page at noon on a Lunch and Learn day to find out how to connect.

Click here to view the [Meetup.com](#) calendar, which shows all scheduled events.

CSDP Exam Registration Window Extended!

The IEEE Computer Society has extended the Fall, 2007, CSDP exam registration window for an additional three months, allowing the application deadline to remain open until November 15th. To honor this extension, we are offering an irresistible e-learning and exam registration package that includes:

- Access to the Brand New IEEE Computer Society CSDP Certification Preparation course — This self engaged, interactive course offers 10 modules, aligned with the SWEBOK, that cover all knowledge areas of the CSDP exam. Key concepts and principles of software engineering are presented with clear and concise explanations. Plus each module provides a list of references to aid in further study for each knowledge area.
- CSDP Candidate Application Fee
- CSDP Examination Fee

This is your opportunity to benefit from exceptional package discounts. For more information, individual pricing, and registration, contact one of our Education & Certification Consultants at csdp@computer.org or via phone at +1 703.637.4417.

Download your free CSDP Candidate Bulletin to assist in your e-learning and exam preparation.

2007 IEEE PSES Symposium 4th Annual!

Located: Longmont, Colorado (near Denver)
Dates: October 22 & 23, 2007
Host: Radisson Hotel & Conference Center

The link to symposium info is at <http://www.ewh.ieee.org/soc/pses/symposium/>

Registration is at: <http://www.ewh.ieee.org/soc/pses/symposium/#REGISTRATION>

Please note that early bird registration ends on 9/28. After that date, registration will be \$50 more.

Advanced Program is at: <http://www.ewh.ieee.org/soc/pses/symposium/program.html>

IEEE/IEEE-USA Seek Nominations for 2008 'New Faces of Engineering' Recognition Program

WASHINGTON -- The IEEE and IEEE-USA are seeking nominations for the 2008 Engineers Week (EWeek) 'New Faces of Engineering' recognition program. The campaign recognizes engineers new to the profession with outstanding educational and career accomplishments, and is open to IEEE members worldwide.

An annual event since 2002, the EWeek 'New Faces' program promotes the importance of technical education, celebrates engineering careers and recognizes significant contributions to the engineering profession and society. Each year, the EWeek Web site (www.eweek.org) features the photos and biographies of five notable young engineers from each EWeek sponsoring society. In addition, a full-page USA Today ad that runs during EWeek recognizes the top individual nominee from each society. EWeek 2008 is 17-23 February.

The EWeek 'New Faces' criteria for recognition are:

- Engineers must be 30 or younger as of 1 December 2007.
- Nominees must have a degree in engineering from a recognized U.S. college or university, or from an equivalent international educational institution. Degrees in engineering technology, science, computer science and similar disciplines do not qualify; a degree in computer engineering is acceptable.
- Nominees must be a member of a sponsoring EWeek partner.

IEEE nominations can be submitted through IEEE regional directors, section and GOLD chairs, or independently, and should be directed to Helen Hall at h.hall@ieee.org. The nomination form and more information are available at <http://www.eweek.org/site/Engineers/newfaces2008/nomination.shtml>.

The deadline for all IEEE nominations is 9 November 2007.

Dr. Carlos Cordeiro was the IEEE / IEEE-USA's 'New Face' for 2007. He was featured in IEEE-USA Today's Engineer Online: <http://www.todaysengineer.org/2007/Mar/new-face.asp>

For more on all the 2007 'New Faces' honorees, go to <http://www.eweek.org/site/Engineers/newfaces2007/index.shtml>

Sponsored by more than 100 engineering, science and education societies, as well as major corporations dedicated to increasing public awareness and appreciation of engineering, EWeek is celebrated annually by thousands of engineers, engineering students, teachers and leaders in government and business. The IEEE served as lead society during EWeek 1993 and 2004.

IBM and the Chinese Institute of Engineers-USA are serving as EWeek 2008 -chairs.

Video Competition on 'How Engineers Make a World of Difference'

\$10,000 IN SCHOLARSHIP PRIZES TO BE AWARDED IN IEEE-USA ONLINE VIDEO COMPETITION ON 'HOW ENGINEERS MAKE A WORLD OF DIFFERENCE'

WASHINGTON (11 October 2007) -- IEEE-USA is launching an online engineering video competition for undergraduate engineering students on "How Engineers Make a World of Difference," and will award seven scholarship prizes totaling \$10,000 to the undergraduate students who create the most effective 90-second video clips aimed at an 11-to-13-year-old student audience. The clips should reinforce engineers' contributions to the quality of life and help debunk engineering stereotypes. In addition to the scholarship prizes, winning entries will be shown during National Engineers Week 2008 and displayed on IEEE.tv and SPECTRUM Online.

The competition is open to all U.S. undergraduate students in engineering.

Entries can be provided by individuals or teams -- with at least one undergraduate participant who is an IEEE Student Member. More than one video entry is allowed. Entries must be submitted through YouTube by midnight Eastern Time on Friday, 18 January 2008. The competition will be judged by two engineering graduate students and Nate Ball, engineer-host for PBS' "Design Squad."

For more information on how to enter the IEEE-USA Online Engineering Video Scholarship Competition, and upload an entry on YouTube, go to http://www.ieeeusa.org/communications/video_competition/

IEEE-USA has been actively involved in promoting public awareness of engineers and engineering since 1981. Working in tandem with its sister organizations, IEEE-USA has helped to foster and maintain a positive image of engineers and engineering through a variety of programs aimed at specific audiences using targeted media.

For more information on IEEE-USA's public-awareness program, see <http://www.ieeeusa.org/communications/default.asp>

First IEEE-USA Innovation Forum Coming in November to Help Prepare U.S. Tech Leaders to Prosper in a Global Marketplace

WASHINGTON -- Because engineers are our country's principal innovators, and innovation generates economic activity and leads to desirable, high-paying jobs, IEEE-USA will host its first IEEE-USA Innovation Forum at the Fairview Park Marriott in Falls Church, Va., on 6-8 November.

The day-and-a-half forum is designed to promote the innovation process, highlight new technologies and trends, and help scientists, engineers and allied professionals improve their innovative skills. Unlike programs offered by and for business school graduates, the IEEE-USA Innovation Forum is grounded in the experience of successful technology innovators.

IEEE-USA Innovation Institute President Ralph W. Wyndrum thinks the forum will benefit individuals and their organizations in today's globally competitive environment.

'Innovation has been the hallmark of American engineering,' said Wyndrum, who served as IEEE-USA president in 2006. 'We need to retain our role as the world's technology leader and innovation incubator. Our forum will help prepare leaders responsible for the innovation of new products and services by sharing the experiences of successful innovators in a coordinated program of interaction, mentoring and networking.'

Current and future leaders from industry, academia and government will have the opportunity to learn from a distinguished faculty that includes: Mike Austin, who has served as president and CEO of numerous U.S. steel companies; Alain Rostain, founder and principal of Creative Advantage, a strategic innovation consulting firm; Mauro Togneri, a former president and senior executive of U.S. companies with R&D, sales and manufacturing operations around the world; and Steve Walker, an entrepreneur and former Defense Department engineer who

helped develop the ARPAnet packet switching system that evolved into the Internet.

Howard Lieberman, founder and CEO of the Silicon Valley Innovation Institute, will deliver the keynote address.

Attendees will learn to innovate in a team-setting and work through real case studies. Group discussions and exercises will focus on:

- Leadership and culture's impact on innovation
- Large vs. small organizations as foundations for innovation
- The innovation process and how to leverage your style to promote innovation
- Capitalizing on new technologies and processes

The event begins on 6 November with an opening night reception and dinner.

The forum starts the next day with a full day of teaching and includes breakfast, lunch and breaks. It will conclude with a half-day program that includes breakfast and a morning break. The cost is \$795 for IEEE members and \$950 for non-members. See <http://www.innovation-institute.org/dcforum/>.

The IEEE-USA Innovation Forum is part of the IEEE-USA Innovation Institute (<http://www.innovation-institute.org/>).

Semiconductor Industry Association and IEEE-USA Urge Action on Immigration Reform

WASHINGTON -- Two organizations often at odds on immigration issues -- notably H-1B visas -- have joined forces to urge swift congressional action to ease retention of highly skilled immigrants.

In a joint letter to key Senate and House leaders, the Semiconductor Industry Association (SIA) and the Institute of Electrical and Electronics Engineers-USA (IEEE-USA) urged passage of measures to ease the hiring of foreign-born scientists and engineers and other proposals to enhance the global competitiveness of the U.S. high-tech sector.

The letter, signed by SIA President George Scalise and IEEE-USA President John Meredith, reads in part, 'Both IEEE-USA and SIA see the retention of highly educated immigrants as part of a broader competitiveness and innovation initiative that includes a doubling of federal investment in research in the physical sciences, improvements in science, technology, engineering and math education at the K-12 and undergraduate levels, and enactment of a permanent and strengthened R&D tax credit.'

See the letter at <http://www.ieeeusa.org/policy/policy/2007/101107.pdf>.

About SIA The SIA is the leading voice for the semiconductor industry and has represented U.S. semiconductor companies since 1977. Collectively, the chip industry employs a domestic workforce of 232,000 people. More information about the SIA can be found at www.sia-online.org.

IEEE-USA Today's Engineer Bring Out the Vote - 2007 IEEE Annual Election Period Opens

Ballots for the 2007 IEEE Annual Election have been mailed to all eligible voting IEEE members via first class. Ballot materials may be accessed electronically at <http://bmsmail3.ieee.org:80/u/7157/5411>.

The annual election candidate biography booklet was provided to members who are eligible to vote for the first time in the annual election, those who have been elevated to Member or Graduate Student membership grades on/or before 30 June 2007, and those members who voted by paper ballot in the 2006 election. Members who transmitted their ballot electronically or did not vote in the 2006 election, will not receive the candidate biography booklet.

However, access to these materials will be available electronically via the IEEE Annual Election Web site at <http://bmsmail3.ieee.org:80/u/7158/5411>.

All eligible voting members will receive a paper ballot and postage paid reply envelope in their ballot package.

To assist all voting members in making an informed decision, a moderated Roundtable Q&A video/audio session with the three President-Elect candidates answering questions asked by members, and a video/audio of the annual President-Elect candidates' debate, hosted by the IEEE Philadelphia Section, are also available on the IEEE annual election Web site. These videos are accessible at <http://bmsmail3.ieee.org:80/u/7159/5411> or directly from IEEE.tv.

Two IEEE-USA Offices to Be Decided

Four U.S. members are vying for two IEEE-USA offices on this year's IEEE Annual Election. Gordon W. Day and Gregg L. Vaughn are candidates for 2008 IEEE-USA President-Elect; and Gary L. Blank and Jean M. Eason are candidates for

2008-2009 IEEE-USA Member-at-Large.

For more information, visit: <http://bmsmail3.ieee.org:80/u/7160/5411>

Building Your Career

IEEE-USA's Greater D.C. Area Innovation Forum: 6-8 November 2007

In response to U.S. IEEE members' desires to remain at the forefront of technology innovation, IEEE-USA started the Innovation Institute. Part of this program's mission is to train engineers, computer scientists and the allied professionals to translate their ideas and invention into innovative products and services. IEEE-USA's Innovation Forum delivers team-oriented, active skill development from successful innovators. Topics covered will include:

- Leadership and Corporate Culture's Impact on Innovation
- Large and Small Companies as Seedbeds for Innovation
- The Innovation Process and Your Style
- Capitalizing on New Technologies and Processes

With guidance from our four faculty, who cumulatively have more than a century of innovation success, you and your peers will work in teams to solve real technology case studies. The DC Forum's faculty includes innovators Mike Austin, Alain Rostain, Mauro Togneri and Steve Walker. For more information and to register, go to <http://bmsmail3.ieee.org:80/u/7162/5411>.

New IEEE-USA E-Books: RFID Survey Report & Educating 21st Century Engineers

The RFID IEEE Survey Report presents the results of a Spring 2007 IEEE-RFID Business Association Survey of IEEE Members worldwide on the state of RFID technology. Respondents were polled on the use, implementation, research of, and satisfaction with, RFID technology in various industries and parts of the world.

This e-book includes twenty-five pages of narrative, charts and tables.

In early October, look for another new IEEE-USA E-Book, "Educating 21st Century Engineers," from Dr. James Gover and Dr. Paul Huray.

For more information on these and other IEEE-USA E-Book offerings, visit: <http://bmsmail3.ieee.org:80/u/7163/5411>

Autumn 2007 Career Accelerator Forum: Career Security for Tech Professionals

IEEE Spectrum Online is hosting its Autumn 2007 Career Accelerator Forum on 11 October 2007, beginning at Noon ET / 9:00 AM PT. Renowned career specialists,

educators, and prominent industry/business experts will present three sessions

on: Medical Electronics: Looking for a Sure Thing?; Fast Tracks to Management; and Career Paths in Computer Security

The popular IEEE Spectrum Online Webinar series, launched in 2005, is an ideal forum for technology, business, and engineering professionals seeking career changes and suitable graduate or post graduate studies in order to achieve a successful career transition. This online event is a rare opportunity to hear presentations on the inside career track from leading experts and to network with top technology and business institutions and career advisors -- all from the convenience of your desktop. A live Q&A session with the speakers will follow the presentations.

For more information and to register, visit: <http://bmsmail3.ieee.org:80/u/7164/5411>

IEEE-USA Webinar: Enhance Your Career With Online Networking (23 October)

Millions of people around the world are connecting through professional and social networking sites like LinkedIn, Ecademy and Ryze. Career Consultants Ellen Sautter and Diane Crompton, both of whom have followed hundreds of clients through their online networking journeys, will help Webinar attendees learn how to network online and build professional relationships through Internet-based tools, including: professional and social networks, discussion groups, blogs, and personal Web sites.

For more information and to register, visit: <http://bmsmail3.ieee.org:80/u/7165/5411>

IEEE Expert Now Pilot Program: IEEE Members Can Earn Free CEUs

IEEE Expert Now courses are available for use by IEEE Regions, Sections, and Chapters interested in participating in the IEEE Expert Now Section-Chapter Program. The program, which began as a pilot in 2006, helps local IEEE volunteers organize an event where attendees can view one or more IEEE Expert Now course(s) and discuss the materials with a local expert on that topic. There is no charge for participating in this program in 2007, and IEEE Regions, Sections and Chapters who do participate this year will have the ability to award Continuing Education Units (CEUs) to event participants free of charge.

IEEE Regions, Sections and Chapters interested in participating will work directly with IEEE Educational Activities (EA) Staff to organize the event. IEEE EA Staff provides access to the selected course(s), can make recommendations or provide best practices for organizing the event, can provide surveys for attendees' feedback

and CEUs to attendees who return completed surveys. For more information on the IEEE Expert Now Section-Chapter Program, visit <http://bmsmail3.ieee.org:80/u/7166/5411> or send an e-mail to <mailto:expertnowinfo@ieee.org>.

LeaderPoint Executive Experience Program: Discount Available to IEEE Members

LeaderPoint, a company specializing in executive and management development sessions -- and the newest member to the IEEE Education Partners Program -- is offering IEEE members a 10 percent discount on its Executive Experience session.

The five-day, comprehensive development program, held in Kansas City, Mo., is designed to advance leadership and management skills. The Executive Experience will help participants:

- Build cooperation in seizing opportunity and gaining greater commitment
- Practice using systematic tools for strategic planning
- Diagnose and correct dysfunctional group dynamics
- Focus personal development in specific areas
- Develop a management mindset for improving business results

Each session has an assessment component which provides a summary of LeaderPoint's observations, the participants' comments, and specific recommendations. Participants can contact LeaderPoint at any time for follow-up work, questions, and concerns. For more information on LeaderPoint visit <http://bmsmail3.ieee.org:80/u/7167/5411>. For general information on the IEEE Education Partners Program visit <http://bmsmail3.ieee.org:80/u/7168/5411>.

From IEEE Spectrum Online: Resource Center for Virtual Instrumentation

Learn how virtual instrumentation has changed the way engineers approach measurement and automation to complete projects faster. Discover how graphical development environments simplify programming on multicore processors; help ensure quality gaming experience on the Xbox 360; and assist mechatronics students in designing, prototyping, and deploying a robotic locomotion platform.

Experience the new IEEE Spectrum Online / National Instruments Resource Center offering webcasts, videos, technical articles, and case studies

at: <http://bmsmail3.ieee.org:80/u/7169/5411>

IEEE GlobeCom Networking and Alumni Event at UMD

The University of Maryland is hosting a GlobeCom Networking and Alumni Event at its College Park campus on the evening of Monday, 26 November 2007. The event is being advertised under "Co-Located Events" on the IEEE GlobeCom 2007 website:

<http://bmsmail3.ieee.org:80/u/7170/5411>

Event details can be found here:

<http://bmsmail3.ieee.org:80/u/7171/5411>

Reduced-Rate 802 Wireless Standards Workshop for Members, GlobeCom Attendees

The IEEE Educational Activities Board, in cooperation with the IEEE Standards Association, is presenting a Standards Education workshop on IEEE 802 Wireless Standards (local area and metropolitan area networks). Through this workshop, attendees can learn about the important role that IEEE 802 Wireless Standards play in manufacturing and production processes. The workshop is scheduled to take place in association with IEEE GLOBECOM, on 30 November and 1 December 2007 in Washington, D.C.

IEEE Members save \$150 (USD) on registration and IEEE GLOBECOM attendees save an additional \$50 (USD). IEEE Student Members are encouraged to attend and are offered a significantly reduced registration fee where they save \$400 (USD).

For more information and to register for the workshop, visit: <http://bmsmail3.ieee.org:80/u/7172/5411>.

For more information and to review the preliminary program visit

<http://bmsmail3.ieee.org:80/u/7173/5411>

Call for Speakers: IEEE Sections Congress

The Sections Congress 2008 Program Committee is now accepting nominations for session speakers. Sections Congress 2008 will be held 19-22 September at the Quebec City Convention Center in Quebec City, Canada. The theme of the event is "Celebrating Volunteer Achievements Worldwide." The three program tracks are: Membership; Section Management; and Section/Chapter Activities. To nominate a speaker, visit <http://bmsmail3.ieee.org:80/u/7174/5411> and click on "Nominate a Speaker."

The deadline for submitting speaker nominations is 1 November 2007.

Call for Papers: IEEE Conference on Technologies for Homeland Security

The Eighth Annual IEEE Conference on Technologies for Homeland Security, to be held 12-13 May 2008 in Waltham, Mass., will focus on novel and innovative technologies, which address the most pressing national security problems. The conference will provide a forum for innovators to discuss ideas, concepts and findings to date. The conference will bring together innovators from leading universities, research laboratories, Homeland Security Centers of Excellence, small businesses, system integrators and the end user community.

New this year, the Conference will feature parallel tracks with invited talks in non-overlapping technical sessions. Also, the Conference will contain a planned session on Detecting and Protecting Against Terrorist Surveillance.

The Conference is seeking technical papers on next generation technologies capable of deployment within 3 to 5 years. The focus of technical papers will be on applied research, addressing hard problems where breakthroughs are needed.

A technical paper review committee comprised of leading academics, industry, government and venture capitalists, will review and select the most promising technical papers.

For more information and a matrix of tracks and technical sessions, visit:

<http://bmsmail3.ieee.org:80/u/7175/5411>

IEEE Seeks Program Evaluators for Accrediting Engineering and Engineering Technology Programs at U.S. Universities

IEEE, the largest member of ABET, Inc. (formerly known as the Accreditation Board for Engineering and Technology), is responsible for the peer-review evaluation of more than 700 college and university programs. To aid IEEE and ABET in its accreditation process, the IEEE Educational Activities Board (EAB) is seeking engineering professionals from industry, government and academe to serve as program evaluators.

Applications for the 2007-2008 academic year will be accepted through 15 November 2007. In addition to lending their valuable expertise to the accreditation process, program evaluators have the opportunity to keep abreast of the latest engineering and technology teaching methods and can meet individuals who will soon be entering the profession. Additionally, program evaluators will learn how to conduct an objective evaluation of the educational

process using established criteria.

Selected applicants will attend a training seminar on the IEEE/ABET accreditation process, which will be scheduled in several locations throughout the United States in 2008. After training, program evaluators are dispatched in teams to visit engineering and engineering technology departments at colleges and universities across the country on behalf of the IEEE and ABET.

Evaluation sessions are held during the fall and usually run two to three days.

Information packages, including the application and nomination forms, are available at: <http://bmsmail3.ieee.org:80/u/7176/5411> for engineering programs and <http://bmsmail3.ieee.org:80/u/7177/5411> for engineering technology programs.

For more information, contact <mailto:eab-accred@ieee.org>.

Help IEEE-USA Pursue Activities that Bolster Professional Development, Engineering Awareness, Tech Literacy

U.S. IEEE member support of the IEEE-USA Fund helps the organization pursue activities that bolster professional development, engineering awareness and technological literacy in the United States.

The IEEE-USA Fund relies substantially on U.S. IEEE members' annual gifts enabling the organization to support such special public-awareness projects as:

1. adding IEEE technologies to local television news spots in 66 U.S. TV markets through the AIP's "Discoveries & Breakthroughs" syndicated news service;
2. introducing youngsters to basic engineering concepts and communicating engineers' support for local community activities through the annual National Engineers Week Discovery Engineering Family Day in Washington, DC; and
3. enlisting IEEE undergraduate and graduate students as IEEE-USA Media

Fellows who communicate authoritatively to the public about engineering in electronic and print media through the AAAS Mass Media Fellows program.

For more information on the IEEE-USA General Fund and to make a donation, go to <http://bmsmail3.ieee.org:80/u/7178/5411>.

Alternatively, make a donation when you renew your membership at <http://bmsmail3.ieee.org:80/u/7179/5411>. Under "Renew Now," click on "Cart Name" to view renewal details; then, under "Renewal Confirmation," click "Continue"; and, finally in "Shopping Cart," on the lower

right side under "What Do You Want to Do," click on "Make a donation to IEEE."

For Student Members

Become a 2008 IEEE-USA Mass Media Fellow: Help Promote Technological Literacy

If you're a senior in college or graduate student and are interested in sharing technical information with the public, consider becoming an IEEE-USA Mass Media Fellow. Administered by the AAAS, the fellowship program helps strengthen connections between engineers and journalists, as well as increase public understanding and awareness of science, engineering and technology. The deadline for applications is Tuesday, 15 January 2008. For more information on the program and to apply, go to <http://bmsmail3.ieee.org:80/u/7180/5411>.

IEEE-USA Online Engineering Video Competition: \$10K in Scholarship Prizes

Choose an aspect of engineering that you consider to be socially constructive, appealing and "fun"; translate it into a 90-second video clip -- aimed at an 11-to-13 year-old student audience. The clip should convey why you think engineering is cool, and should reinforce engineers' contributions to the quality of life. Seven scholarship prizes totaling \$10,000 will be awarded. In addition, winning entries will be shown during National Engineers Week 2008 and on IEEE.tv and SPECTRUM Online. The competition is open to all U.S. undergraduate students in engineering. Entries can be provided by individuals or teams -- with at least one undergraduate participant who is an IEEE Student Member. Entries must be submitted by midnight Eastern Time on Friday, 18 January 2008. For more information on how to enter, go to <http://bmsmail3.ieee.org:80/u/7181/5411>

IEEE Computer Society Announces 60th Anniversary Awards for a Century's Computer Contribution

WASHINGTON -- From a field of 13 prominent candidates, the IEEE Computer Society has selected David L. Parnas of the Software Quality Research Laboratory at Ireland's University of Limerick; and Maurice V.

Wilkes, of the University of Cambridge, to receive the one-time IEEE Computer Society 60th Anniversary Award.

The award recognizes an individual or individuals who have been responsible for a fundamental and important computer science and engineering contribution over the past century. Selection committee members paid careful attention to the originality and significance of a contribution, as well as the weight of its impact on computer science and engineering, as well as society at large.

The combined award citation reads: "For their seminal contributions to the discipline of computing. Maurice Wilkes pioneered microprogramming, which enabled very large and complex hardware structures to be implemented reliably and systematically. David Parnas provided insights into making large-scale systems development manageable with the concepts of encapsulation and information hiding, and helped establish software development as an engineering discipline firmly rooted in mathematics."

Parnas is an icon in the software engineering field. He is one of its founders and most influential authors, writing the first papers on program families (now known as product lines) and interface designs. Parnas wrote widely cited papers on synchronization primitives that were very important as examples of certain models such as Petri Nets. His research on information hiding is now widely accepted as the basis of object-oriented and other design methods. Parnas' work on the precise specification of programs and model checking has led to current practices in formal methods and safe systems.

Wilkes designed and built EDSAC (1949), the world's first practical stored program computer, and in 1951 developed the concept of microprogramming.

His 1958 EDSAC 2 was the first computer to have a microprogrammed control unit and established the viability of microprogramming as a basis for computer design. Wilkes also developed Titan, which supported the UK's first time-sharing system and provided wider access to computing resources for university researchers. In a notable design feature, the Titan's operating system provided controlled access based on the identity of the program, as well as or instead of, the identity of the user.

The IEEE Computer Society sponsors an active awards program that recognizes both technical achievement and service to the Society and the profession.

In the technical area, awards are presented for pioneering and significant contributions to the field of computer science and engineering. Service awards are presented to both volunteers and staff for well-defined and highly valued contributions to the Society.

To learn more about IEEE Computer Society Awards, visit <http://www.computer.org/awards>.

IEEE Computer Society Student Members Offered Access to Free Development Software

All student members who join the IEEE Computer Society are now eligible to select and download software from Microsoft. Available software includes Vista Business Edition, Visual Studio Team System, Expression Web Designer, Project 2007, Visio 2007 and Windows Server 2003. A user account with login information will be e-

mailed on acceptance of an IEEE Computer Society application for student membership. For more information, and to join the Computer Society, go to <http://www.computer.org/join>. The IEEE Computer Society is the world's leading association of computing professionals with more than 90,000 members in over 140 countries. It is also the largest society within the IEEE, which is the world's largest technical professional organization.

CONTACT: Georgann Carter, IEEE Computer Society, +1 202 371 0101

Oregon IEEE Consultants' Network Meetings

The Oregon IEEE Consultants' Network meets on the fourth Thursday of most months (January through October) and the first Thursday of December.

Meet at the IHOP (International House of Pancakes) at 158th Avenue and NW Walker Road in Beaverton.

There are occasional speakers at these monthly meetings.

Dinner and chat starts at 6PM, the meeting at 7PM.

Recommendations for 2008 TAB/IEEE Committee Memberships

Nominations are being solicited for 2008 members of the following committees:

- TAB Periodicals Committee
- TAB/PSPB Products & Services Committee
- IEEE Conferences Committee

These Committees are key to TAB operations and are critically important avenues for S/C participation. Specific information on each of the committees is listed below.

Members are nominated by their S/C President, as the committee charters note that the membership is composed of S/C Presidents or their designees.

Final appointments are made by the Division Directors' Forum during their meeting in November 2007, with consultation from the TAB Chair. If you are interested in any of these positions, please contact your current S/C President.

All travel, accommodation and meeting expenses for these committee members are scheduled to be covered by the 2008 TAB operating budget (pending IEEE approval of the budget in November 2008). Previously, travel expenses were covered by the respective S/C budgets. Length of service is 1 year on each committee.

Part of the membership of the TAB Periodicals Committee consists of eight (8) sitting Division Directors or S/C Presidents, (or their designees).

Please note that of these eight for the TAB Periodicals Committee, it is possible that three may be appointed as Chairs of the TAB Magazines, TAB Newsletters and TAB Transactions Committees.

Part of the membership of the TAB/PSPB Products & Services Committee, consists of six (6) sitting Division Directors or S/C Presidents, (or their designees).

Part of the membership of the IEEE Conferences Committee consists of four (4) Division Director or S/C President Representatives.

Society Presidents will be asked to CONTACT Paula Dunne, IEEE Technical Activities, telephone +1 732 562 3919; "[MailTo:p.dunne@ieee.org](mailto:p.dunne@ieee.org)", by Monday, 29 October 2007 (2007-10-29) to advise which volunteers are being recommended for these committees. Information will be compiled by the TAB Nominations and Appointments Committee and will be prepared for the Division Directors to coordinate appointments in November 2007. Please also contact Paula Dunne if you would like further information regarding who served on these committees in past years, or have any other questions.

The Institute Online

1. Once Again, IEEE Journals Top Annual Citations Ratings Each June, numbers that could affect the careers of many researchers are released. These numbers are the rankings from the annual Journal Citation Reports, which note how often publications have been cited by researchers writing for other publications. The latest report shows that last year IEEE journals made it to the top of these ranks, once again.

Read on at <http://bmsmail3.ieee.org:80/u/7433/05229885>

2. Boston GOLD Holds Barbecue to Retain Student Members Holding on to student members after they graduate is always challenging.

This year, the Boston Graduates of the Last Decade group tried a new approach: they invited recent graduates to a barbecue where they explained the benefits of staying with the IEEE. Learn more at

<http://bmsmail3.ieee.org:80/u/7434/05229885>

3. Last Chance to Register for Career Security Webinar Register now for the IEEE Spectrum Webinar, "Career Security for Technology Professionals," taking place on 11 October. Hear industry experts' advice on how to break into the medical electronics and computer security fields, and learn about educational programs that can lead you to a management position. The Webinar will also include live Q&A sessions and a virtual exhibition hall

where you can network with representatives from leading universities. Register now at

<http://bmsmail3.ieee.org:80/u/7435/05229885>

4. Marketplace of Ideas: Game Addicts Anonymous A committee of the American Medical Association has split on whether excessive video-game playing--which affects about 10 percent of players--can be considered an addiction. At an AMA meeting in June, some doctors compared too much game playing with alcoholism, suggesting that just like alcoholics, hooked players experience denial, rationalization, and the inability to give up the activity. Other doctors, however, saw no evidence linking video games to addiction and said that those who play excessively may simply have compulsive personalities.

Do you think excessive playing of video games should be considered an addiction? Weigh in at [<mailto:institute@ieee.org>](mailto:institute@ieee.org)

And read responses to July's question on whether MIT was right to fire its longtime dean of admissions after discovering she had lied about her college degrees. Some wholeheartedly agree with MIT, while others say the punishment did not fit the crime. Read on at

<http://bmsmail3.ieee.org:80/u/7437/05229885>

5. Deadline Nears for IEEE Sections Congress Speakers You have until 1 November to submit nominations for speakers for the IEEE Sections Congress 2008. The event--to be held 19 to 22 September in Quebec City--will focus on boosting membership, managing sections, and section/chapter activities. To nominate a speaker, visit

<http://bmsmail3.ieee.org:80/u/7438/05229885>

6. Oregon Section Adds Helping Hands to "Design Squad" Event Reality TV isn't just for oddball adults, celebrity couples, or those matching wits on a desert island. Now it's also for tomorrow's engineers.

"Design Squad," a new half-hour weekly television program, pits two high school teams against each other in engineering challenges. The IEEE Oregon Section has lent a helping hand. Learn what it did at

<http://bmsmail3.ieee.org:80/u/7440/05229885>

7. IEEE Foundation Awards US \$121 000 in Grants The creation of a new museum exhibit, the production of a pilot TV episode, and the expansion of an electrical engineering course developed by an IEEE student branch are among the initiatives recently receiving support from the IEEE Foundation. For more information, go to

<http://bmsmail3.ieee.org:80/u/7441/05229885>

8. Chilean Society, IEEE Present First Excellence Award Jorge Yutronic Fernandez, the executive director of the Chilean Fund for the Promotion of Scientific and Technological Development, is the first recipient of the AIE/IEEE Joint Prize of Excellence Award. Learn more about how he earned this award at <http://bmsmail3.ieee.org:80/u/7442/05229885>

9. Help The Institute Recognize Your Colleagues Have you or a member you know received an award, been promoted, or been honored with another important recognition? If so, tell the editors about it at [<mailto:institute@ieee.org>](mailto:institute@ieee.org)

10. IEEE Spectrum Webinars Now on Demand If you missed these recent live IEEE Spectrum Tech Insiders Webinars, you can view them on demand: "Biomed Looks for High-Tech Solutions," sponsored by Ansoft; "Leveraging Multiphysics Solution for Cost-Effective and Successful Electronic Design," sponsored by Ansys; "Multiphysics for MatLAB Users," sponsored by COMSOL; and "Innovations in Battery and Charger Technologies for Portable Electronic Devices," sponsored by Micro Power Electronics. To watch the Webinars, visit

<http://bmsmail3.ieee.org:80/u/7444/05229885>

OGI Center for Professional Development Courses & Seminars

OGI School of Science & Engineering, Oregon Health & Science University

Public Seminars (most at no cost and in the evening unless noted)

Oct 27 Saturday

Information Session for Prospective Students: OHSU's Biomedical Informatics Program (11:30 AM - 2:00 PM, OHSU main campus, includes pizza lunch)

Oct 30 Tuesday

Five Hard Things About Communicating Your Design (Rebecca Wirfs-Brock)

Nov 6 Tuesday

Becoming an Effective Manager--Information Session for OGI's Management in Science & Technology Program

Nov 7 Wednesday

IEEE MTT-ED Seminar - Advanced Simulation of Antenna and Microwave Systems (Lawrence Williams, Ansoft Corporation)

Nov 8 Thursday

SPIN Seminar: Evaluating the Impact of New Tools Using Simulation (Dr. David Raffo, Portland State University)

SynthWorks VHDL Training Portland Area Classes

VHDL Testbenches and Verification

Oct 30 - Nov 2, \$2100 before Oct 9,
\$2300 thereafter

Intermediate/Advanced Class, 50% Labs

Learn essential verification techniques including self-checking, transaction-based testing, data structures (linked-lists, scoreboards, memories), and randomization.

http://www.synthworks.com/vhdl_testbench_verification.htm

Comprehensive VHDL Introduction

Jan 22 - 25, \$2100 before Jan 1,
\$2300 thereafter

Beginners Class, 50% Labs

Learn VHDL syntax plus the basics of RTL and testbench coding. Get VHDL design experience with our FPGA based lab board.

http://www.synthworks.com/comprehensive_vhdl_introduction.htm

To enroll, download our registration from:

http://www.synthworks.com/public_vhdl_courses.htm

For additional classes, class dates, or information, contact us at (503) 590-4787, (800) 505-VHDL, or jim@synthworks.com

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Editorial submissions are welcome and should be made by the 25th of the month preceding publication. Send all items to the Editor,

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