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www.ieee-or.org/bEEP

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Upcoming Events

For latest, see www.ieee-or.org/events

Microwave Theory & Techniques and Electron Devices

Topic: Unmanned aerial vehicle (UAV) Technology: How supporting technologies have advanced capabilities and performance; InSitu Group.

Speakers: Dr. Jim Newell; InSitu Group, Inc.

When: Wednesday, November 16th, 2005; 6:00 PM for pizza and soft drinks; Presentation at 6:30 PM

Where: Oregon Graduate Institute, Wilson Clark Center Dining Hall, Hillsboro, OR.

Pacific NW High Tech Career Fair Featuring 100's of High Tech Jobs

The Pacific NW Tech Career Fair is sponsored by the IEEE Seattle Section, and the Society of Professional Engineering Employees in Aerospace (SPEEA). The fair is on Tuesday October 18 from 2 pm to 7 pm. It will be

held on the University of Washington Bothell campus, 18115 Campus Way NE, Bothell WA in the North Creek Café. See www.pacificnwtech.org.

It is FREE to job seekers. You must register on the web site where you can get more information about the Career Fair. Bring plenty of resumes.

5th Annual OCTOBERBEST

Co-sponsored by EMA-Oregon and Pacific Northwest ERA

Date: Wednesday, Oct. 19 2005

Time: Noon - 6 p.m.

Hawthorn Farm Athletic Club, 4800 N.E. Belknap Ct., Hillsboro, OR (a half block west of Intel - Hawthorn Farm).

OctoberBest is a favorite event of the Pacific Northwest high tech industry. It's where you'll learn about what's new, what's hot and what's coming. Be sure to visit the exhibit booths ... choose from a terrific roster of educational seminars ... and enjoy the festive German atmosphere ... including brats and beer!

Free admission to exhibits 12-6 pm if you sign up before October 14 online at www.ema-oregon.org/OctBest5_attend.html.

All participants are asked to bring a donation of non-perishable food items for the Oregon Food Bank.

For details, visit the OCTOBERBEST WEB SITE at <http://www.ema-oregon.org/OctBest5.html>.

IEEE Oregon half-day technical seminars October 19

IEEE Oregon is holding FOUR morning technical seminars from 8:00 am - Noon Wednesday, October 19, 2005 at Hawthorn Farm Athletic Club, Hillsboro in conjunction with the 5th Annual OctoberBest Regional High-Tech Manufacturing Conference and Expo

See <http://www.ieee-or.org/events/obest> for details on these IEEE seminars

- Introduction to Nanotechnology
- EMI Regulations and Design Techniques
- Lean Manufacturing - What's Next
- FPGAs vs Structured ASICs: Choosing the best path to silicon implementation

CEUs: 0.3 CEUs (3 PDH) will be awarded on completion

Cost: Registration fee ranges from \$50-\$60 for Members.

Seminars are LIMITED TO 25 attendees - register now!

Communications Society & Computer Society

RFID Generation 2 – a Single Low-Cost/High-Performance Worldwide Standard

Speaker: Dr. Harley Heinrich, Intermec

When: Thursday, October 20th, 2005

Time: 6:00 PM ~ 8:30 PM

Cost: Free and open to the public (registration required).

Pizza and refreshments provided

Place: Oregon Graduate Institute of Science and Technology (OGI), Wilson Clark Center, 20000 NW Walker Rd, Beaverton, OR 97006

Registration:

<http://www.cpd.ogi.edu/coursespecific.asp?pam=1930>

Robotics and Automation Society Chapter Startup

Topic: The DARPA Grand Challenge

Date: Thursday October 20th at 7 PM

Place: Wilson Clark Center – Conference Room 407
Oregon Graduate Institute of Science and Technology
20000 NW Walker Road, Beaverton
<http://www.ogi.edu/maps/>

Please RSVP Nelson Bridwell at
Bridwell@MobileRobot.Org or 503 740-5102.

PACE (Professional Activities)

Topic: Career Models – A Framework for Success

Speaker: John Prohodsky, IEEE Senior Member

Date: Tuesday, October 25, 2005

Time: 6:30 PM - 8:00 PM

Doors open 6:00PM

Place: Oregon Graduate Institute(OGI), Wilson Center
Main Dining Room

Cost: FREE and open to the public

Registration: See www.ieee-or.org/events or go to
<http://cpd.ogi.edu/class.asp?n=06-IEEE-1025>

This PACE meeting of the IEEE Oregon Section will help you learn about career models and how to use them to understand and manage your career.

Coming Nov. 18: 1-day seminar/tutorial on Wireless PAN Technology and IEEE802.15.4/Zigbee™

Marketplace

Quality Plus Engineering is seeking experienced engineers or technically qualified individuals for opportunities in a new and expanding field: technical governance, assurance and implementation of risk controls. Of special interest are Senior Security and Software Quality Assurance Engineers. Positions require CS, EE or comparable technical degree. Security certification including CISSP or other certifications such as CIA, CISA is preferred. Individual must be capable of obtaining security clearance. Other areas of interest include demonstrable knowledge and experience in intrusion detection, software quality, networks/perimeter auditing, system forensics, and /or network security. Positions are in Portland Oregon. Contact: StanS@QualityPlusEngineering.com
www.QualityPlusEngineering.com

POSITION: A part-time instructor is needed to teach Electronics II (Applications of Electronic Devices) during the spring semester of 2006 (January 9 – April 28) at George Fox University in Newberg, Oregon. Candidates should hold an MS in Electrical Engineering or closely related field and be comfortable working in a Christian, faith-affirming context. Previous classroom teaching experience is desirable. The engineering program at George Fox has state of the art engineering laboratory and computer facilities and is accredited by the Accreditation Board for Engineering and Technology (ABET).

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OPPORTUNITY TO MAKE MONEY, LEARN, AND HELP IEEE AT THE SAME TIME: The Executive Committee has authorized selling commercial advertisements in the BEEEP, and to pay an ad executive a very generous percentage (around 25 to 40%) of the TOTAL revenue brought in. We want to offer this financial opportunity to our members first, before going to an outside ad agency. This position requires a strong people-person, reasonably proficient with the English language, and feels him/herself to be organized and responsible. A definite plus would be a good phone presence, as well as some prior experience selling ads. Hours are flexible, and all calls can be made from home. No office time is required. If you, a family member, or someone you know would be interested in this rewarding opportunity, and would like to help, please email Dr. Christopher Jacobs, head of IEEE Oregon public relations, at drjacobs@drchrisjacobs.com, who will ensure complete instruction and guidance are provided.

Time to Vote in 2005 IEEE Annual Election

The election ballot packages have been mailed to all eligible voting members. Take a moment to read the instructions in the package, and then vote. If you have not received your ballot yet or have questions, contact the IEEE at <mailto:corp-election@ieee.org>. To find out more, visit the election Web site at <http://www.ieee.org/elections>.

Science, Technology and Society 2005-2006 The Linus Pauling Memorial Lectures - www.isepp.org

A Different Universe: Reinventing Physics from the Bottom Down with Dr. Robert Laughlin, Nobel Laureate Physics 1998

"Physics is now in the midst of a crisis, an ideological battle." Laughlin argues for emergence as a replacement for reductionism.

Thursday, November 3rd, 2005

Schnitzer Concert Hall

Broadway, Portland

Doors open 6pm, Presentation 7pm

Season Tickets Available 503-432-2917

or online through Ticketmaster.com Arts Line

Special 20% Discount offer to IEEE

<http://www.ticketmaster.com/promo/20289>

From the Editor's Desk

by Allen G. Taylor

This month brings some exciting opportunities for Oregon Section engineers. High on the list is the inaugural meeting of the Oregon Chapter of the Robotics and Automation Society on October 20. Nelson Bridwell will fill us in on the DARPA Grand Challenge that was run last weekend. 23 robotic vehicles set out on a grueling 132 mile desert course in Nevada in quest of a \$2 million prize. Five of the robot vehicles actually completed the race and the prize went to a robot Volkswagen created by a team at Stanford University. This is a giant leap for robot-kind. Even if you are not a member of the Robotics and Automation Society, you might want to hear about this astonishing achievement.

Speaking of robots, the Oregon Chapters of the IEEE Microwave Theory and Techniques and Electron Devices Societies will meet on November 16. The topic will be unmanned aerial vehicle technology. Jim Newell of InSitu Group will speak on the history of UAVs and on his company's SeaScan vehicle.

Coming right up on Wednesday, October 19 is the Fifth Annual OctoberBest trade show. Taking place in Hillsboro at the Hawthorn Farm Athletic Club, OctoberBest showcases the latest developments in technology in the Northwest. Pre-register by October 14 for free admission.

The IEEE Oregon Section will be conducting four half-day technical seminars during the morning to kick off OctoberBest which starts at noon. Registration fees are modest and the topics to be discussed are timely. Check this issue for more details.

On Thursday, November 3, Dr. Robert Laughlin, 1998 Nobel Laureate in Physics will kick off the 2005-2006 Linus Pauling Memorial Lecture series on Science, Technology, and Society. His talk, titled "A Different Universe" takes a critical look at the reductionist philosophy that has dominated science for several hundred years, and presents instead a paradigm based on emergence and the way systems behave, rather than dissecting things to their smallest possible parts. Tickets to Laughlin's talk and to the rest of the series are available at Ticketmaster. Details on the entire series can be found at www.isepp.org.

Computer Society News

Check out the latest additions to the IEEE Computer Society Library at:

http://www.computer.org/portal/pages/ieeecs/publications/CSDL_update.html

New IEEE Senior Members

Congratulations to our newly advanced Senior Members!

Joseph Albert
Thomas R. Apel
David W. Arnett
Gaurab Banerjee
Hani Elgebaly
Jie Lian
Ajay Ojha
Priyadarsan Patra
Lawrence E. Todd
Carolyn Turbyfill
James W. Zipay

Legislative Alert: Congress Discussing Raising H-1B Cap

IEEE-USA has just learned that there is a plan in the US Senate to increase the number of H-1B visas available by 60,000 per year for at least the next 5 years. It is essential that Congress hear from as many engineers

as possible IMMEDIATELY if we want to stop this plan.

The proposal has been presented as a way of raising money. If adopted, it would be an amendment to the 2006 budget bill. Once included in this bill, it will be virtually impossible to remove the measure. Therefore, engineers who oppose the plan must speak up now to make a difference.

Concerned engineers should go to the IEEE-USA Legislative Action Center here: <https://www.capitolconnect.com/ieee> for more information. Sign in using your IEEE Web Account Password. The site will also help engineers quickly contact their legislators. IEEE members have repeatedly indicated that they are very concerned about temporary work visas and want IEEE-USA to oppose them. In this case, Congress needs to hear that individual engineers oppose the program.

Please contact me if you have questions about this Alert or about H-1B visa: Russell Harrison, IEEE-USA (202) 530-8326

Systems, Man and Cybernetics Society News

New SMC web site is now on-line at <http://www.ieeesmc.org>. Containing much information about IEEE SMC Society, the new site has new features and should be much easier to navigate. The SMC Society would appreciate receiving any comments or feedback.

Robotics and Automation Society Chapter Startup

At the startup meeting for the new Oregon chapter of the IEEE Robotics and Automation Society Nelson Bridwell will present video clips and interviews from the DARPA Grand Challenge \$2,000,000 autonomous vehicle race across 132 miles of desert that was run on Saturday October 8th.

At this initial chapter meeting attendees will also brainstorm exciting topics and speakers for future meetings. In addition they will discuss the organization of a Mobile Robot Software Competition for this summer. Pizza and beverages will be provided. Admission is free.

Non-members of the RAS and the IEEE, including students, are always welcome and encouraged to attend all chapter meetings. However, the brief planning portion this meeting will focus on input from IEEE RAS members.

Topic: The DARPA Grand Challenge
Date: Thursday October 20th at 7 PM
Place: Wilson Clark Center – Conference Room 407
Oregon Graduate Institute of Science and Technology
20000 NW Walker Road, Beaverton
<http://www.ogi.edu/maps/>

Please RSVP to Nelson Bridwell at Bridwell@MobileRobot.Org or 503 740-5102.

Note: Should you desire immediate information and video about the DARPA Grand Challenge, please see the following websites:

<http://www.grandchallenge.org> – Official site.
www.darpa.mil/grandchallenge/ - General information.
<http://www.stanfordracing.org/> - Excellent videos from Stanford team.
<http://www.redteamracing.org/> - Carnegie Mellon team information.
<http://oregonstate.edu/grandchallenge/> - Oregon State team website.
www.cartv.com – Select More Shows and Events for some excellent interviews.

Call for Papers

The 2006 Southwest Symposium on Image Analysis and Interpretation (SSIAI) will be held in Denver, CO March 26-28, 2006.

The Call for Papers is available at <http://www.cet.nau.edu/Research/SSIAI/CallForPapers.html>. The nominal deadlines are listed below, but please refer to the conference Web site for the latest information.

- October 28, 2005 Summary papers due (3 pages)
- January 13, 2006 Acceptance notification
- February 10, 2006 Camera-ready papers due, advance registration ends
- March 2, 2006 Hotel reservations due

For more information, please see the conference Web site <http://www.cet.nau.edu/Research/SSIAI/>

Utah Congressman Looks to IEEE-USA for Expertise on Medical IT Issues

Rep. Chris Cannon (R-Utah) said he is looking to IEEE-USA to provide input and guidance on what Congress should do on medical information technology issues and to serve as a think tank for the medical community.

Cannon spoke by phone on 22 September with the IEEE-USA Medical Technology Policy Committee and

expressed interest in the committee's work in areas such as medical privacy, patient safety, medical errors, voluntary healthcare identifiers and the creation of a technology-based National Health Information Network.

Cannon is particularly concerned about finding quality healthcare information on the Internet and establishing a way for people to share their medical experiences. He is also interested in finding out what research is being done and not being done, and what critical areas need to be funded.

Cannon chairs the House Judiciary Committee's Subcommittee on Commercial and Administrative Law, and is a member of the House Government Reform Committee's Subcommittee on Criminal Justice, Drug Policy and Human Resources.

IEEE-USA's positions on medical technology and health are available at <http://www.ieeeusa.org/policy/positions/index.html#mtp>.

IEEE-USA Presents Second Teacher-Engineer Partnership Award, TechXplore Electrotechnology Award

Teacher William G. Speed and engineer Mark R. Rognstad of Kailua, Hawaii, recently received the second IEEE-USA Teacher-Engineer Partnership Award.

Speed and Rognstad, whose partnership began in 1999, were recognized for providing mentorship, support and encouragement to students interested in science, technology and mathematics through engineering competitions at the local, regional and national levels. The Hawaii Underwater Robot Challenge they created allowed Hawaiian students to participate in a robotics competition without assuming heavy travel costs.

The award is sponsored by IEEE-USA's Precollege Education Committee and was presented by IEEE-USA Managing Director Chris Brantley at the IEEE Oceanic Engineering Society Conference in Washington on 24 September. For more information, go to <http://www.ieeeusa.org/volunteers/committees/pec/2004.html>.

IEEE-USA also joined with the National Science and Technology Education Partnership (NSTEP) to present the TechXplore Best Electrotechnology Project Award in Chicago in June. Bergen County Academies of Hackensack, N.J., was honored for its "Health-e2" firefighting monitoring system, and North Plainfield (N.J.) Middle School was recognized for its "Bar Codes of the Future." The award, also sponsored by the IEEE-USA Precollege Education Committee, is presented annually to one high school and one middle school.

NSTEP's TechXplore online mentoring program and competition helps young people build the science and technology skills needed for workplace success.

4Frontiers Corporation To Establish First Mars Settlement

Cambridge, MA – The 4Frontiers Corporation, has announced its plan for the first permanent habitation on another planet, revealing technical and social aspects of establishing an initial human settlement on Mars. The bold plan is based in part on the work of the Mars Foundation (www.MarsHome.org) but will be carried out within an expansive 4Frontiers business plan. 4Frontiers is actively engaging with space transportation, technical, policy and financial partners to develop the systems and technologies needed to establish this new branch of civilization. The business plan also calls for the establishment of a revolutionary Mars Settlement Outreach and Research Center, here on Earth, to advance these efforts.

While a number of companies have set their sites on advancements in getting to Mars, few have laid out plans with technical reality and actual designs to quickly and affordably establish settlement. For example, Elon Musk of Space Exploration Technologies (www.SpaceX.com), is developing the human-rated Falcon 9 launcher, and has plans to develop a super-heavy lift rocket as part of a strategy to get to Mars. However, "4Frontiers is positioned to be the leader in actual "on-the-ground" settlement housing, life support, and industrial technology," said Mark Homnick, CEO of 4Frontiers. "We have utilized detailed knowledge of the planet and the extensive know-how of our technical team to develop a plan for a small but sustainable settlement, leveraging use of locally derived materials," said Joseph Palaia, VP of Research & Development.

A settlement on Mars would translocate the human genome to another planet effectively creating a new Biosphere. While it may take "rocket science" to get to Mars, once there "The lessons learned from large scale closed systems, such as Biosphere 2, a project supported by billionaire Ed Bass, have demonstrated a clear path for small-scale sustainability and offer critical elements for a Mars based ecologically sustainable settlement," said Bruno D.V. Marino, a consultant to 4Frontiers and former Director of Science and Research at Biosphere 2. 4Frontiers has already begun extensive research programs covering in-situ manufacturing of building materials, extraction of oxygen and water, and the establishment of Martian ecosystems to produce diverse food crops. The company plans to unveil additional research and development programs in the near future.

4Frontiers is making strides in establishing a Mars Settlement Research and Outreach Center. "This unique facility will serve as a nexus for space technology development and consultancy, focused initially on technologies having commonality with those needed both for Mars settlement and for the President's Moon Mars Initiative," said Bruce Mackenzie, 4Frontiers VP and Director of the Mars Foundation. The 25,000 sq foot facility, assuming the form of a full-scale replica of the actual first settlement, will provide the public an unprecedented glimpse of life on the early Mars frontier, and will allow the public to interact with scientists and engineers who will be turning this vision into reality. 4Frontiers is presently in negotiations with a number of agencies, investigating the possibility of locating this facility in New Mexico, Central Florida or Colorado.

Government Activity Headlines

- **New Energy Legislation, Spurred on By Hurricanes, Is Fast Tracked** - House Energy and Commerce Chairman Joe Barton's (R-Tex.) bill – the Gasoline for America's Security Act of 2005 (H.R. 3893) - to promote oil refinery expansion and construction is on such a fast track that lawmakers are worried they will not have time to consider the ramifications of the proposed sweeping regulatory changes. While the bill's primary focus is to encourage construction of new refineries, H.R. 3893 also includes provisions relaxing Clean Air Act regulations, streamlining refinery permitting by putting the Energy Department in charge, and giving the Federal Trade Commission new authority to investigate price gouging. House leaders are tentatively planning to bring H.R. 3893 to the House floor on 9 October along with another bill by Richard Pombo (R-Calif.) - introduced on Sunday, 25 September -that focuses on oil production and is designed to allow "more production at home from diverse locations to increase supply and decrease prices." Pombo's draft bill entitled the "Second Energy Bill," or the National Energy Supply Diversification and Disruption Prevention Act , seizes on concerns about gasoline and heating fuel shortages that were intensified by Hurricanes Katrina and Rita.
- **Senator Stevens Looks to Spectrum Revenue Sales to Fund First-Responder Needs** - The communications needs of first responders have been an issue since police and emergency workers were unable to talk to one another during the September 11th tragedy. Now, hampered relief efforts due to shortages of radio spectrum during Hurricanes Katrina and Rita reminded lawmakers that those communication needs are still at issue.
- **Draft Telecom Reform Bill Circulated to Industry** - The House Energy and Commerce Committee is circulating a draft of long-awaited telecom reform legislation. Known as the Barton-Dingell draft -after the sponsors Congressmen Joe Barton (R-Tex.) and John Dingell (D-Mich.) - the bill has not yet been introduced. A Section-By-Section description of the staff discussion draft can be read here: <http://www.ieeeusa.org/policy/reports/telecomdraftoutline91505.pdf>
- **New IEEE-USA Resource Web Page** - U.S. Competitiveness: The Innovation Challenge <http://ieeeusa.org/policy/issues/innovation/index.html>
- **Report Requested by Congress from National Academies Due out 12 October** - A new congressionally-requested report from the National Academies' Committee on Prospering in the Global Economy of the 21st Century identifies and prioritizes the top four actions and twenty implementation steps U.S. policy-makers should take to enhance America's prosperity and competitiveness. The committee chaired by Norman Augustine, retired Chairman and CEO of Lockheed Martin, includes several current and former corporate CEOs, university presidents, federal and state government leaders, and eminent researchers (including three Nobel prize winners).

Opportunities from IEEE-USA

- October 2005 IEEE-USA Today's Engineer Online

The latest edition of IEEE-USA Today's Engineer Online includes features on "Engineers: Mere Mercenaries?"; "Engineers as Commodities"; "IPv6 Transition and the 'New Internet'"; "U.S. IEEE Membership Split on Privatization of Social Security"; "Networking: The Sine Qua Non of Job Search Success"; and more. Also catch an "Engineering Hall of Fame" column on Sir Charles Wheatstone and the latest "WorldBytes" column on "18 Seconds."

Read IEEE-USA Today's Engineer Online at <http://www.todayseengineer.org>
- "Leadership for Results" Courses Launched
IEEE-USA, in conjunction with AchieveGlobal, now offers 29 online courses designed to equip members with the "soft skills" needed to succeed in today's workplace. Course modules include: "Giving and Receiving Constructive Feedback"; "Managing Your Priorities"; "Proactive Listening"; and others, all of which are based on AchieveGlobal's experience in the professional training industry. IEEE members can

access these courses for less than retail price. For more information and course registration, use your IEEE Web Account to log into the IEEE-USA online catalog

[https://salaryapp.ieeeusa.org/rt/salary_database/shop], click on the "Shop" tab, and then click on the "Career-Development Courses" heading.

- U.S. IEEE Members Eligible for Discounted Continuing Education, Certificate, Grad Degree Courses

Through the IEEE Education Partners Program, U.S. IEEE members can now receive up to a 10 percent discount on online degree programs, certifications and courses -- on both technical and business subjects currently offered by more than a dozen accredited universities and private continuing education providers. Most courses are available online; however, some are instructor-led in person. To enter each partner's special IEEE Web site and to browse the more than 2,000 courses offered, enter your IEEE Web account and password at <http://www.ieee.org/education/epp>.

- Application for 2006 IEEE-USA/AAAS Mass Media Fellowships Now Available Online

IEEE-USA is looking for two U.S. IEEE student members to help strengthen the connections between engineers and journalists by working for 10 weeks during the summer as reporters, researchers and production assistants in newsrooms across the country. The goal is to increase public understanding and awareness of science and engineering.

To apply, you must be at least a junior in college majoring in a technical field, mathematics or social sciences. A weekly stipend of \$450 is provided. Applications must be received by 15 January 2006. Visit <http://www.aaas.org/programs/education/MassMedia/> for more information, or contact Stacey Pasco at spasco@aaas.org, or +1 202 326 6441.

For more information on IEEE-USA's Mass Media Fellowships, go to <http://www.ieeeusa.org/communications/massmedia.asp>

To access the online application form, visit <http://www.aaas.org/programs/education/MassMedia/apply.shtml>.

- Nominate a Colleague for the EWeek 2006 "New Faces of Engineering"

Do you work with any outstanding, young engineers?

IEEE-USA is seeking nominations to be considered for the EWeek 2006 "New Faces of Engineering," a program that recognizes the profession's rising stars. This program is a great way to acknowledge the contributions of your younger colleagues and boost interest in the profession among future generations of engineers.

For more information on the "New Faces of Engineering" program, go to <http://www.eweek.org>

To nominate an IEEE member, please contact Helen Hall at h.hall@ieee.org.

- U.S. IEEE Student Members Encouraged to Apply for 2006 WISE Program

Next summer, the IEEE will sponsor three outstanding student members to participate in the 2006 Washington Internships for Students of Engineering (WISE) Program. The select candidates will spend nine weeks in Washington, D.C., learning how engineers contribute to the legislative decision-making process. The application deadline is 16 December 2005.

For more information, visit <http://www.wise-intern.org>, or contact Sharon Richardson at s.richardson@ieee.org.

News from The Institute

- New Site Searches for Job Listings Far and Wide
If you're looking for a new job, you've probably found a few Web sites that list positions in your field, but with more than 100 000 job sites on the Internet, you can't possibly peruse them all. Wouldn't it be great if there were an IEEE site that gathers the pertinent information for you? There is. Find out more at <http://www.theinstitute.ieee.org/>
- IEEE Press Seeks Book Proposals
Want to be an author? IEEE Press is looking for proposals for how-to books on power engineering, electromagnetic wave theory, microelectronics, biomedical engineering, and communications. As part of a new three-year strategic plan, IEEE Press also plans to ramp up its new-title output to 35 releases a year and focus on emerging technical areas. Read about other developments at IEEE Press at <http://www.theinstitute.ieee.org/>
- 2006 Membership Renewal Kicks Off
The IEEE encourages members to renew their 2006 membership electronically. More than 198 000 members renewed online for 2005, a 9 percent increase over 2004. Those who renew online by 15

November will be entered in a drawing to win a Dell Inspiron laptop. Find out about renewing and what new benefits are being offered at <http://www.theinstitute.ieee.org/>

- Marketplace of Ideas: Do Computers Help Make Kids Smarter? Computers have been a common sight in preuniversity classrooms for more than 20 years, but often they are used only for word processing and topical Internet searches, according to a study of technology in Wisconsin schools conducted by the U.S. Department of Education. The study's findings raise the question: How much do computers aid learning? Weigh in at <<mailto:institute@ieee.org>>
- IEEE Journals Take Top Spots in Annual Citation Report
Our IEEE journals are once again the most cited electrical and electronics publications, according to the most recent study released by Thomson/ISI. And the most cited journal of all was the monthly IEEE Transactions on Pattern Analysis and Machine Intelligence, which bounced up from the No. 3 position it held in 2003.
- Explore IEEE Spectrum's New Interactive Site
Discover the new IEEE Spectrum Online, a vital resource where technology insiders can listen to IEEE Spectrum Radio, read the Spectrum editor's blog and post comments, get headlines by RSS, sample articles from the IEEE's digital library, and sign up for newsletters, Webcasts, and online events. Start exploring today. Visit <http://www.spectrum.ieee.org/> and <http://www.spectrum.ieee.org/extras>
- Professionals Needed to Serve as Accreditation Program Evaluators
The IEEE Educational Activities Board seeks qualified professionals from industry, government, or academia to serve as program evaluators to assist in accrediting engineering and engineering technology programs at U.S. universities. Applications are due 15 November 2005. For more information go to <http://www.ieee.org/education/>

OGI Public Seminars

See <http://www.cpd.ogi.edu/>

Oct 13 (Thursday)
[Nanoscience Frontiers: Practical Implications of the Reactivity of Nanoparticles](#) Paul Tratnyek, OGI School of Science & Engineering at OHSU

Oct 18 (Tuesday)
[Management in Science & Technology: Information Session for Prospective Students](#)

Oct 18 (Tuesday)
[Technology and Health Care: Changing Conditions for Medical Technology in the Health Care Industry](#)
George Moseley, Harvard School of Public Health

Oct 19 (Wednesday)
[Oracle Databases: Why "System" is a Four-letter Word](#)
Karen Morton, Hotsos Enterprises, Ltd.

Oct 20 (Thursday)
[IEEE Seminar: RFID Generation 2--A Simple Low Cost/High Performance Worldwide Standard](#) Harley Heinrich, Intermec

Oct 27 (Thursday)
[IEEE MTT/ED: Probing and Beyond--A Cross Section of Advanced Development Activities at Cascade Microtech](#)
Rick Campbell, Leonard Hayden, Peter Navratil, Cascade Microtech

Nov 1 (Tuesday)
[Nanoscience Frontiers: Semiconductor Nanowires and Their Potential Electronic Applications](#)
Jun Jiao, Portland State University

IEEE Oregon Section 2005 Contacts

Chair	Dan Arnold	360-817-5699
Vice Chair	Bob Sparkes	503-547-2396
Treasurer	OPEN	
Secretary	Hamid Sharifnia	503-813-6935
Past Chair	Ed Perkins	503-612-9397
BEEEP Editor	Allen Taylor	503-656-0831

Editorial submissions are welcome and should be made by the 25th of the month preceeding publication. Send all items to the Editor, Allen Taylor, email: allen.taylor@ieee.org

Administrative inquiries should be directed to the Section Chair, Dan Arnold, email: Daniel.Arnold@us.ul.com

To contact us, see www.ieee-or.org/contact_us.

This issue produced using OpeOffice 1,1,4