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Contents

- **Upcoming Events and Courses**
- **Seeking Nominations for 2006 Officers**
- **IEEE Life Members Committee Active in Oregon**
- **25th DIGITAL AVIONICS SYSTEMS CONFERENCE**
- **Oregon Governor Signs Bill to Create Innovation Council**
- **IEEE Election Results**
- **IEEE-USA Urges Congress to Extend R&D Credit**
- **House Committee Chairman: Energy Bill Will Help No One But Industry**
- **US Seen Lagging Behind in Developing "New Internet"**
- **DOD FY06 Approps Bill Passes Senate With Additional Funding for Civilian Scientist Education Programs**
- **National Academies Panel Warns of an Erosion of U.S. Competitive Edge in Science**
- **U.S.IEEE Student Members Encouraged to Apply for IEEE-USA Mass Media Fellowships**
- **IEEE-USA Seeks EWeek "New Faces of Engineering" Nominees**
- **Senate Clears Deficit Reduction Bill, Approves H-1B Visa Increase**

Upcoming Events

For full details, see www.ieee-or.org/events

EMC Meeting

Subject: Understanding and Avoiding EMC Problems of LANs

Speaker: Dr. Heyno Garbe

When: **Monday November 14th, 2005**

Time: 6:30pm - 8:30pm

Meeting Place: University of Portland Buckley Center, room BC163

(RSVP for food/drinks req'd by Friday, November 11th.

PES Meeting

Title: Electric Fields in Transmission Line Towers: A practical example of exposure assessment with respect to EMF guidelines

Presenter: Dan Bracken, President

T. Dan Bracken, Inc., Portland, OR

Time: **November 15, 2005** - 12:30 PM to 1:30 PM

Location: Conference Room - Third floor of 700 NE Multnomah Blvd

MTT/ED and Robotics Meeting

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

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

When: **Wednesday, November 16th, 2005**

Time: 6:00 PM for pizza and soft drinks;

Presentation at 6:30 PM

Where: Oregon Graduate Institute, Wilson Clark Center Dining Hall

IAS Meeting

Title: "Energy Management Strategies - 2006 DOE Sponsored Resources for Energy Savings Solutions"

Presenter: John Ryan, IE

Program Manager - DOE Industries of the Future, Washington State University Pullman, WA

Date/Time: **Wednesday, November 16, 2005**

6:00pm dinner

Speaker presentation starts at 7:30pm

Cost: \$20.00 for dinner (by outside caterer). No charge for presentation only. The IAS Chapter offers free dinner for all local PSU, OSU and U of P Electrical Engineering Students

Place: Red Lion Hotel Portland

Reservations: For dinner reservations please send email message to DavidDurocher@ieeee.org

Computer & Comsoc Meeting

Topic: Virtualization Use Cases

Speaker: Sean Campbell, Michael Jeronimo, 3 Leaf

When: Thursday, **November 17, 2005**

Time: 6:00 PM for pizza and soft drinks
Presentation at 6:45 PM
Where: Oregon Graduate Institute, Wilson Clark Center
Dining Hall
Registration: <http://cpd.ogi.edu/class.asp?n=06-IEEE-1117>

PSES Meeting

Presenter: Mr. Juha K. Junkkarinen
Date: **November 29, 2005**
Time: 6:30pm - 8:30pm
(Presentation commences at: 7pm)
Location: University of Portland, Engineering Building,
Room # 301.
For details contact Dean Jurgensen at
Dean_Jurgensen@Logitech.com

Oregon IEEE Consultants' Network

Topic: Characterization of physical/electronic properties
of materials, using UV, IR and microwaves
Speaker: John Freeouf of Interface Studies, Inc.
Date: **December 1, 2005**
Time: 6:00PM social hour/eat; program at 7:00 PM
Place: Beaverton IHOP, 158th & Walker Rd.

Robotics and Automation Society

Autonomous Vehicle Control: OregonWave Runner
Date: **Saturday, December 3rd, 2005**
Time: 1-3 PM
Place: Oregon Graduate Institute of Science and
Technology (OGI) Wilson Clark Center, 20000
NW Walker Rd, Beaverton, OR 97006
Register:
<http://www.cpd.ogi.edu/courseSpecific.asp?pam=1948>

Matt Knudson and Matthew MacClary from OSU will
discuss the design, construction, and testing of vehicle
hardware and software for their entry in the 2005
DARPA Grand Challenge, which will be on display.
They will also perform a live demonstration of
autonomous operation of this vehicle.

Wireless PAN Technology and IEEE 802.15.4/Zigbee

<http://www.ieee-or.org/events/WPAN05.pdf>

Date: **Friday, November 18, 2005**
Time: 8:00 AM - 5:30 PM
Location: Kingstad Meeting Center, Beaverton, OR
Cost: \$225 members, \$275 non-members by Nov. 11
CEUs: 0.7 CEUs awarded upon completion
Registration: https://www.ieee-or.org/apps/event_registration/register_contact.php?venue_id=5
This seminar will introduce the major aspects of current
Wireless PANs development (wireless USB, wireless
UWB, Zigbee) and provide a tutorial on the IEEE
802.15.4 wireless networking standard.

Advertisement

Portland State University Dept. of Electrical and Computer Engineering Winter 2006

Pre-registration for Winter term now open.
See <http://www.ece.pdx.edu/Courses/Courses.html>

Classes begin January 9th

Also of interest:

ECE012 Electrical Engineering Review
for Professional Engineering License
Tuesday Evenings 6:40 - 9:20 PM,
January 10 through March 21, 2006

Details: <http://www.ece.pdx.edu/~fli/pe-ee.html>

COMMUNICATION SOCIETY PRESENTS WIRELESS LAN WORKSHOPS

Wireless LAN Security (4-day workshop)

Dates: November 29 – December 2, 2005

Venue: Kingstad Place for Meetings, Beaverton, Oregon

This workshop addresses in detail Wireless LAN
Intrusion, Security Policy, and Security Solutions.
With the burgeoning growth of wireless LAN
installations, all IT professionals must become
knowledgeable about security - wireless security in
particular. For more info and registration go to
<http://www.ieee-or.org/events/cwsp>

Wireless LAN Analysis (4-day workshop)

Dates: December 6 - 9, 2005

Venue: Kingstad Place for Meetings, Beaverton, Oregon

This workshop offers hands-on learning using the latest
enterprise-class wireless LAN analysis hardware and
software. This course targets experienced networking
professionals who wish to gain critical, detailed skills in
wireless networking analysis. For more info and
registration go to <http://www.ieee-or.org/events/cwap>

Wireless LAN Administration (4-day workshop)

Dates: January 10 -13, 2006

Venue: Kingstad Place for Meetings, Beaverton, Oregon

This workshop provides the networking professional a
complete foundation of knowledge for entering into or
advancing in the wireless networking industry.
From basic RF theory to link budget math, including
topics from troubleshooting to performing a site survey,
this course delivers hands on training that will
benefit the novice as well as the experienced network
professional. For more info and registration go to
<http://www.ieee-or.org/events/cwnp>

If you have any questions please call Pradeep Kumar at
503-702-1900 or via email at pradeep@ieee.org

Real-Time & Embedded Computing Conference

The RTC Group, Inc. is hosting a one-day Real-Time & Embedded Computing Conference on

Thursday, December 1st at the Embassy Suites Hotel Portland-Washington Square from 8am-3pm.

The Real-Time and Embedded event is Complimentary for each guest (sponsored by the RTC Group and participating exhibitors).

Special conference presentations will feature PCI Express Technology, along with numerous technical breakout sessions regarding FPGAs, Embedded Linux, and much more.

The exhibition will run alongside the open-door technical sessions for you to talk face-to-face with the vendors' technical experts. The event is hosted with free parking, free registration to all exhibits and sessions, and we also invite you to be our guest for a buffet lunch at noon.

Seeking Nominations for 2006 Officers

The Oregon Section is seeking members who are interested in helping with Section operations in 2006 by serving as an officer or as a committee member.

Section officers are Chair, Vice Chair, Secretary, and Treasurer. We are especially seeking someone to serve as Section Vice Chair for 2006 with the possibility of advancing to Chair in 2007, and someone for Student Activities Chair.

We also are looking for members to help with PACE (Professional Activities) programs, Education (workshops/seminars), newsletter (BEEEP) reporters.

Also we are seeking Senior Members willing to provide references for members applying for upgrades.

Please contact Ed Perkins, Nominations Chair at e.perkins@ieee.org.

IEEE Life Members Committee Active in Oregon

By Walt Myers, PE - IEEE Life Senior Member
ASE Mentorship Development

An IEEE LMC grant is funding one high school apprenticeship position a year for three years in the electrical/electronic engineering disciplines through Saturday Academy's Apprenticeships in Science and Engineering (ASE) Program. This grant started with the Summer 2005 ASE Program. Emphasis of the funded positions is on female and minority students.

Ms. Genevieve Handloser was the apprentice in the LMC funded position this past summer. Her mentor was IEEE Member, Dr. Chih-Hung Chang at Oregon State University.



ASE Symposium Poster Board Session
Genevieve Handloser (left) – IEEE LMC Sponsored Apprentice
Dan Arnold (center) – IEEE Oregon Section Chair
Edward Perkins (right) – Current IEEE Section Professional Activities Chair

Summer Project Activity: Genevieve worked on a project related to the fabrication of thin film electronics. She learned how to perform various tests on a film she applied to silicon coupons using the successive ionic layer adsorption and reaction (SILAR) method. Testing the films entailed learning how to operate many highly technical machines such as a Veeco Dektak 8 Stylus Profiler for surface characterization, a Cascade Microtech Microwave Probing Station for measurement, a spin coater, and a UV machine. Genevieve also made chemical solutions and performed important calculations relating to the tests. She then shared her knowledge and helped students do their own experiments at a summer camp.

General Program Statistics: The Summer 2005 ASE Program served 146 students who were mentored by science and engineering professionals working for 59 collaborating employers. The employers are in Oregon and SW Washington and students are drawn from the same geographical area. Counting the Summer 2005 program, ASE has served 2,523 students in 16 years of operation.

On average there were over 2.6 applicants for the 146 program positions. Most if not all of the unsuccessful applicants were qualified for this experience had more positions been available. Mentor selections continue to be essentially gender blind with 45% female applicants leading to 44% of position selections going to females. The minority applicant demographics at 30% lead to minority selections at 28% which is essentially minority

blind. The program results continue to exhibit mentor selections which are helping to break the stereotype of who can be scientists and engineers in the future.

Significant IEEE Related Accomplishment in the Summer 2005 Program:

IEEE Member Co-funding: An IEEE Oregon Section member contributed \$1,000 to the 2005 ASE Program with the condition that his funding be used to further the objectives of the IEEE LMC Grant.

LMC Grant Solicitation: The Oregon Section officers and several members endorsed the successful ASE Grant application to the IEEE LMC.

IEEE Oregon Section Program Support: The section continued assisting in mentor and volunteer recruiting with articles in the "BEEP" newsletter and on the electronic bulletin board. The "BEEP" also carried an article in their July 2005 issue citing the LMC funding of an apprentice. The IEEE Oregon Section Chair and Professional Activities Committee Chair moderated student presentation sessions at the Symposium. The Symposium Keynote Speaker, Darrell Gerrard is an IEEE Member.

Individual IEEE Member Support: The IEEE LMC position was mentored by an IEEE member and a number of the other program mentors and volunteers are IEEE members.



**Abby Covell (right) – PacifiCorp Apprentice
Derrald Gerrard (left) – IEEE Member
PacifiCorp VP for Transmission & Asset Management
Symposium Keynote Speaker Representing
PacifiCorp Foundation for Learning**

Call for IEEE Mentors: You can be part of the ASE Program and help achieve the objectives of IEEE by volunteering as a mentor for the Summer 2006 ASE Program. ASE Program and mentor registration information is on the web at:

www.saturdayacademy.org/ase or call (503) 725-2340. ASE provides the complete infrastructure to match the best students to your area of practice including program administration and delivery. This allows the mentors to focus on mentoring the students while ASE takes care of the details. The mentor describes the summer work/project and makes the down-select of student applicants specifically interested in the respective position. A position will not be filled if no suitable applicant is found. Registration deadline is January 16, 2006.

Call for Student Applicants: High school freshmen, sophomores and juniors can receive application information by calling (503) 725-2334. Application deadline is January 26, 2006. The ASE Program and application information is more fully described at www.saturdayacademy.org/ase

Oregon Governor Signs Bill to Create Innovation Council

Governor Ted Kulongoski last month signed Senate Bill 838, creating the Oregon Innovation Council. The Council will provide the legislature with advice regarding business innovation in order to strengthen competitiveness in global markets, and will include representatives from industry, education and government.

In addition, the bill recognizes the Oregon Nanoscience and Microtechnologies Institute (ONAMI) as the state's first Signature Research Center and appropriates \$7 million for operations and leveraging of private and federal funds. According to the governor's office, every state dollar invested into ONAMI delivers a \$30 return through private investment.

Among its key tasks, the council will work to increase Oregon universities' role in driving economic growth. The council will provide advice on enhancing educational programs for engineering, science and technology. Another primary goal is identifying and addressing business development issues in key industry sectors such as early-stage funding and entrepreneurial capacity.

25th DIGITAL AVIONICS SYSTEMS CONFERENCE

**October 15 - 18, 2006, Portland, OR
Call for Participation
Technical Papers, Tutorials & Exhibits
Network-Centric Environment and the Impact on Avionics and Systems**

Significant changes have impacted the avionics industry and the engineering profession since the AIAA-IEEE partnership began sponsoring the Digital Avionics

Systems Conference (DASC) 25 years ago. We have evolved from stand-alone hardware and federated architectures to integrated platforms with modular hardware and software. And now we are moving toward a more integrated sky — replacing point-to-point communications with a network-centric environment (NCE) that will enable significant enhancements to efficiency, safety, and operational flexibility. We will place special emphasis on this latter topic during the 25th DASC and have chosen the theme “Network-Centric Environment: The Impact on Avionics and Systems.” There are many important questions to be answered if we are to reap the full potential of an NCE, including: How will this change Air Traffic Control/Management operations?

- How will the commercial, regional, and general aviation markets respond to the required investments to implement this emerging operational environment?
- How will the military and defense communities be impacted as they continue to develop greater interoperability and tighter integration with the evolving civil airspace system?
- What will original equipment manufacturers (OEMs) and suppliers have to do to be ready with equipment that provides appropriate capabilities?

The Technical and Professional Education Programs will incorporate hundreds of papers and dozens of tutorials from international researchers, innovators, engineers, and designers who are creating the products, services, and support to enable the NCE. We will hold panel discussions with noted engineering and management experts, and provide keynote presentations by government and industry leaders shaping our future world in the NCE. If you are involved in avionics, aircraft and space systems, or air traffic management, join us and participate in the 25th DASC to help influence the direction of digital avionics and systems technology.

Abstract Details

Authors are invited to submit abstracts of 300 words by **19 February 2006** on any of the topic areas listed on the back. Submit electronically through www.dasconline.org. Ideas for invited sessions are welcome. Please avoid the use of acronyms or abbreviations in the title of the paper. Include a short biographical sketch of the author(s), mailing address, email, telephone, and fax numbers.

FINAL MANUSCRIPTS of selected papers are due 31 July 2006. Papers which are not presented at the Conference will not be published in the Proceedings CD.

IEEE Election Results

Leah Jamieson elected IEEE President-elect, John Meredith elected IEEE-USA President-elect. The information below is the tally of votes of the 2005

IEEE Tellers Committee. These results are unofficial until the Tellers Committee Report is accepted by the IEEE Board of Directors at its meeting on 13 November.

OFFICE OF PRESIDENT-ELECT, 2006 Leah H. Jamieson

OFFICE OF DIVISION DELEGATE/DIRECTOR, 2006-2007
Division VII W.O. (Bill) Kennedy

OFFICE OF DIVISION DELEGATE-ELECT/DIRECTOR-ELECT, 2006
Division II Thomas G. Habetler
Division IV Edward Della Torre
Division VI Irving Engelson
Division VIII Thomas W. Williams
Division X William A. Gruver

OFFICE OF REGION DELEGATE-ELECT/DIRECTOR-ELECT, 2006
Region 8 Jean G. (Jean-Gabriel) Remy

OFFICE OF REGION DELEGATE-ELECT/DIRECTOR-ELECT, 2006-2007
Region 1 Howard E. Michel
Region 3 William B. Ratcliff
Region 5 David J. Pierce
Region 7 Ferial El-Hawary
Region 9 Enrique E. Alvarez

OFFICE OF STANDARDS ASSOCIATION
President-Elect, 2006 George W. Arnold
Member-at-Large, 2006-2007 Carl R. Stevenson
Member-at-Large, 2006-2007 L.B. (Bruce) McClung

OFFICE OF TECHNICAL ACTIVITIES VICE PRESIDENT-ELECT, 2006 Peter W. Staecker

OFFICE OF IEEE-USA
President-Elect, 2006 John W. Meredith
Member-at-Large, 2006-2007 Burton J. Loupee

IEEE-USA Urges Congress to Extend R&D Credit

IEEE-USA joined with the Information Technology Association of America, the American Electronics Association, the Electronic Industries Alliance and others in urging Congress to extend and strengthen the Research and Experimentation Tax Credit (R&D credit) before it expires on 31 December.

The 21 October letter (<http://www.ita.org/taxfinance/docs/RDHighTechfinal.pdf>) was sent to Senate Finance Committee Chairman Charles Grassley (R-Iowa) and Ranking Member Max Baucus (D-Mont.); and House Ways and Means

Committee Chairman Bill Thomas (R-Calif.) and Ranking Member Charles Rangel (D-N.Y.). It endorses bills pending before the Senate (S. 627) and House (H.R. 1736) that would significantly strengthen the current R&D credit.

The credit allows companies to devote more money to research and development than they would otherwise. As noted in the letter, R&D contributes many positive economic benefits to the United States, including "increased revenue streams to U.S. companies that enhance their ability to hire employees, purchase capital goods, pay dividends to shareholders and contribute to a strong U.S. tax base."

House Science Committee Chairman: New Energy Bill Will Help No One But Industry

In two "Dear Colleague" letters, Congressman Sherwood Boehlert (R- NY) urged his fellow members to not pass [HR 3893](#), the Gasoline for America's Security Act of 2005 sponsored by Joe Barton (R-Tex.). Boehlert called the bill, "a misguided Energy Bill that will not help consumers; it will only benefit oil companies. And the bill will harm taxpayers, states and the environment."

And he urged that his colleagues read what state groups are saying about many of the provisions in this bill. "The bill is opposed by the National Conference of State Legislatures, the National Association of Counties, the National League of Cities, the association that represents state environmental commissioners (ECOS), and the association that represents state air officials (STAPPA/ALAPCO)."

Boehlert's letters best summed up the impact of the bill.

Regarding the effects on oil companies, HR 3893 –
-reduces royalty payments to the government (now through rebates paid by the government to the oil companies);

- creates a fund that will pay oil companies if they are sued - even if they lose in court; and
- does not require oil companies to pay the government's legal fees if they sue the government and lose - even though losers suing oil companies must pay their legal fees.

Regarding environmental law, HR 3893 –

- limits the kinds of cleaner fuels states can require to meet their clean air targets;
- limits the kinds of diesel fuel that can be required, interfering with the low sulfur diesel rule pushed by the Bush Administration;
- rewrites the permitting process for refineries to limit environmental reviews without any evidence that current processes are a problem; and
- enables cities with dirty air to delay meeting Clean Air Act requirements.

HR 3893 undermines states' prerogatives by –

- federalizing many siting and permitting decisions relating to refineries;
- limiting the kinds of cleaner fuels states can require to meet their clean air targets; and
- changing long-standing legal tradition [by] exposing local governments to federal sanctions and lawsuits.

And finally, according to Boehlert, "...perhaps worst of all, the bill still does virtually nothing to limit the nation's growing demand for oil - the core cause of price spikes. The nation's refining capacity has been increasing for a decade (despite the reduced number of refineries), but demand has increased even more. The marketplace is providing all the incentives needed to build new refineries using the tremendous profits of the oil companies. But the marketplace cannot control demand effectively."

United States Seen Lagging Behind in Developing "New Internet"

WASHINGTON (14 October 2005)-- Although the Internet was created and developed in the United States, the country is lagging behind in developing the "New Internet," according to an October article in IEEE-USA Today's Engineer Online.

This "New Internet" is expected to depend upon Internet Protocol Version 6, or IPv6, which is replacing the nearly 20-year-old Internet Protocol Version 4 (IPv4). But leadership of this enhanced, next-generation Internet is in Asia and Europe. The economic consequences could be dire for the United States, according to Today's Engineer.

"The New Internet has the potential to create 10 million new American jobs and trillions of dollars in revenue for the United States," Alex Lightman, chair of the upcoming United States IPv6 Summit, told Today's Engineer, "but leadership is slipping away to other countries, and it will soon be difficult, if not impossible to recover."

Experts say that perhaps IPv6's greatest advantage over IPv4 is in the vast increase in available Internet addresses, or unique numbers assigned to each machine on the Internet. More addresses are needed to support future Internet-dependent computer growth in homes, businesses, cars and mobile devices such as cell phones and PDAs (personal digital assistants). With IPv6, trillions of times more addresses will be available worldwide.

IPv6 proponents also say the protocol offers improvements in routing and network autoconfiguration, is compatible with 3G wireless (near) broadband, supports greater mobility and offers enhanced system security.

To read "IPv6 Transition and the 'New Internet,'" go to www.todaysengineer.org.

DOD FY06 Approps Bill Passes Senate With Additional Funding for Civilian Scientist Education Programs

7 OCT: The Senate passed HR 2863, the Department of Defense Appropriations Bill for FY 2006. Edward Kennedy (D-Mass.), Susan Collins (R-ME), and nine other Republican and Democratic members successfully tacked on an amendment increasing the funding for basic research and a new scholarship program for civilian scientists. The amendment increased funding in HR 2863 by a total of \$40M. The Army and Air Force University Research Initiatives received an additional \$10 million each; a similar Navy program received \$5 million; the SMART National Defense Education Program received an additional \$10 million; and the DARPA University Research Program in Cybersecurity received an additional \$5 million. Despite the increases for these programs, the bill contains \$7 billion below the Administration's request for DoD.

US Could Lose "Privileged Position:" National Academies Panel Warns of an Erosion of the U.S. Competitive Edge in Science

12 OCT: [A panel of experts, convened by the National Academies, has called for an urgent and wide-ranging effort to strengthen scientific competitiveness.](#) The panel that included university presidents, CEOs, Nobel Prize winners, and former presidential appointees, wrote the report at the request of Congress.

The report - [Rising Above The Gathering Storm: Energizing and Employing America for a Brighter Economic Future](#) - cited many examples of emerging scientific and industrial power abroad and listed four recommendations and 20 steps the United States should take to maintain its global lead. Some actions will involve changing existing laws, while others will require financial support that would come from reallocating existing budgets or increasing them. The panel believes that ongoing evaluation of the results should be included in all of the measures. The proposed actions include:

- creating scholarships to attract 10,000 top students a year to careers in teaching math and science, and 30,000 scholarships for college-level study of science, math and engineering;
- expanding the nation's investment in basic research by 10 percent a year for seven years; and
- making broadband access available nationwide at low cost.

The underlying goal is to create high-quality jobs by developing new industries and new sources of energy based on the bright ideas of scientists and engineers. "America must act now to preserve its strategic and economic security," the panel's chairman, Norman R. Augustine, retired chairman of Lockheed Martin, said in a statement. "The building blocks of our economic leadership are wearing away. The challenges that America faces are immense."

The report, [Rising Above The Gathering Storm: Energizing and Employing America for a Brighter Economic Future](#) will be available online this fall at http://books.nap.edu/catalog/11463.html?onpi_newsdoc10122005.

The panel cites many examples that led to their conclusion that nation's old advantages, "are eroding at a time when many other nations are gathering strength." For example, last year, more than 600,000 engineers graduated from institutions of higher education in China, compared to 350,000 in India and 70,000 in the US; recently, American 12th graders performed below the international average for 21 countries on general knowledge in math and science; the cost of employing one chemist or engineer in the United States is equal to about five chemists in China and 11 engineers in India; and chemical companies last year shut 70 facilities in the United States and marked 40 for closure. Of 120 large chemical plants under construction globally, one is in the United States and 50 are in China.

U.S.IEEE Student Members Encouraged to Apply for IEEE-USA Mass Media Fellowships

IEEE-USA is for the first time seeking two U.S. IEEE student members to work as reporters, researchers and production assistants in newsrooms across the country by serving a 10-week mass media fellowship in the summer of 2006.

Administered by the AAAS in Washington, D.C., mass media fellows must have the ability to explain complex scientific and engineering principles in a way the general public can understand. The program helps strengthen connections between engineers and journalists, as well as increase public understanding and awareness of science, engineering and technology.

Applicants must at least be a senior in college majoring in a technical field, mathematics or social sciences. Mass Media Fellows receive a weekly stipend of \$450. Applications are due no later than 15 January 2006. For more information and an application go to <http://www.aaas.org/programs/education/MassMedia/>; or contact Stacey Pasco, at spasco@aaas.org, tel. +1 202 326 6441.

In 2005, AAAS Mass Media Fellows produced some 250 news stories on science and technology. Abby Vogel, a graduate student at the University of Maryland, served as IEEE-USA's 2005 Mass Media Fellow. Vogel worked for the Richmond (Va.) Times-Dispatch, and wrote articles on West Virginia wind farms and making shuttles safer. She also placed several articles on the front page of the paper. For more on IEEE-USA's participation in this program, go to <http://www.ieeeusa.org/communications/massmedia.asp>

IEEE-USA Seeks EWeek "New Faces of Engineering" Nominees

IEEE-USA is now accepting nominations for the Engineers Week (EWeek) "New Faces of Engineering" recognition program. U.S. and international IEEE members are eligible.

The "New Faces of Engineering" program strives to promote the accomplishments of young engineers by highlighting their engineering contributions and impact on society. The campaign is designed to enhance and improve the image of engineers. Nominees must be 30 or younger, have an engineering degree from a recognized educational institution and be IEEE members.

To nominate someone, go to http://www.eweek.org/site/Engineers/newfaces2006/2006_nomination.doc and fill out the form. Send completed forms to Helen Hall at h.hall@ieee.org, or by fax at 202-785-0835. Go to <http://www.eweek.org/site/Engineers/newfaces2006/nomination.shtml> for more information.

Nominations are due 14 November.

Five IEEE members, including two from outside the United States, will be chosen by an ad hoc committee to represent the IEEE and will be featured on the EWeek Web site (www.eweek.org). The top nominee from each EWeek sponsoring society will appear in USA Today during EWeek 2006, 19-25 February. You can view last year's honorees at <http://www.eweek.org/site/Engineers/newfaces2005/index.shtml>.

Senate Clears Deficit Reduction Bill, Approves H-1B Visa Increase

The Senate passed a sweeping five year, \$35 billion deficit reduction package, but its fate remains unclear as the House prepares to open debate on a vastly different \$54 billion version. Republican leaders hope to adjourn for the year at the end of November and are reluctant to prolong the session to resolve differences over budget details that face no hard deadline this year.

The Senate bill (S 1932), approved on a 52 to 47 vote, finds its savings through cuts in Medicare and Medicaid, farm aid program and student lender subsidies. It adds revenues by, among other things, increasing pension insurance premiums, radio spectrum sales and employment-based visa fees.

Of special interest to IEEE-USA members, the Senate bill boosts revenues by raising the numbers of foreign professionals who can be admitted to work in the United States on certain employment-based visas. In any year in which the annual 65,000 H-1B cap is reached, for example, the bill will allow employers to petition for an additional 30,000 H-1B temporary visas in exchange for an extra \$500 per visa fee.

The current 140,000 annual cap on immigrant (legal permanent resident) visas available to extra-ordinary ability professionals, advanced degree professionals and baccalaureate degree professionals would also be boosted by up to 90,000 visas a year with an extra \$500 per visa fee. Multi-national corporations that wish to transfer foreign employees to work temporarily in the United States on L (Intra-company transfer) visas will have to pay an additional \$750 fee.

An IEEE-USA backed amendment introduced by Senator Robert Byrd (D-WV) and supported by Senator Jeff Sessions (R-AL) was defeated 84 to 14. The Byrd amendment would have substituted a simple House Judiciary Committee proposal calling for a \$1,500 increase in L visa fees for the more complex EB/H-1B/ L visa proposal included in S 1932 as passed by the Senate. If you would like to read the record of the floor debate, please visit our web site at <http://ieeeusa.com/policy/reports/ByrdAmendment.pdf>

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.