



IEEE

Buffalo Section Electrifying News

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If you would like to contribute thoughts or articles please send them to

sec.buffalo@ieee.org

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IEEE Board Meeting-

April 8, 2008, at 6:00 pm. In the Electrical Engineering Conference Room. Located in room 332, Bonner hall

Joseph G. Petersen, IEEE Member

Joseph G. Petersen of Amherst, a retired electrical engineer and World War II veteran, died Monday in Erie County Medical Center. Mr. Petersen was a fellow engineer at Westinghouse and a senior life member of IEEE. He was awarded a patent in 1969; he represented Westinghouse as a member of several professional societies. A memorial service will be at 11 a.m. May 24 in St. John's- Grace Episcopal Church, 51 Colonial Circle.

President's Science Adviser to Address IEEE International Homeland Security Conference

Dr. John Marburger, science adviser to President Bush, will be the keynote speaker at the 2008 IEEE International Conference on Technologies for Homeland Security.

The eighth-annual conference is scheduled for 12-13 May at the Westin Hotel in Waltham, Mass. For more information and to register, go to <http://www.ieeehomelandsecurityconference.org/>.

The National Science and Technology Council, Nuclear Defense Research and Development Subcommittee, calls the conference "the key homeland security conference in 2008 to share the U.S. nuclear defense research and development roadmap with the global technology innovation community."

Marburger, director of the Office of Science and Technology, came to the Executive Office of the President after serving as director of the Brookhaven National Laboratory in Upton, N.Y. He was president of the State University of New York at Stony Brook from 1980-84, and before that a professor of physics and electrical engineering at the University of Southern California. While at the Los Angeles school, he

developed theory for various laser phenomena and co-founded USC's Center for Laser Studies.

General themes of the conference are:

- * Transportation security focused on chemical, biological and high explosives, with special sessions on radiological and nuclear areas

- * Infrastructure protection and cyber security, with emphasis on protecting the financial sector, communications and electric power networks, and focusing on threats to the chemical and refinery sectors

- * Information sharing, interoperability and incident management technologies, high-level risk assessment and supporting technologies of modeling and simulation, emphasizing tools development

- * Software assurance focused on software development, testing, legacy systems and infrastructure

The U.S. Department of Homeland Security (DHS), Science and Technology (S&T) Directorate, is providing technical assistance to support the conference. Robert Hooks, Director of Transition, DHS S&T Directorate, is the featured speaker and participated in the technical paper review committee.

About 200 selected technical papers from around the world will be featured, and more than 500 technology experts are expected to attend.

The conference is organized by the IEEE Boston Section and IEEE-USA. Industry sponsors include Massport, SAIC, Raytheon, Qwest, PSSG and ARES.

IEEE-USA advances the public good and promotes the careers and public policy interests of more than 215,000 engineers, scientists and allied professionals who are U.S. members of the IEEE. IEEE-USA is part of the IEEE, the world's largest technical professional society with 370,000 members in 160 countries. See <http://www.ieeeusa.org>.

IEEE-USA President's Blog

2008 IEEE-USA President Russ Lefevre has launched a blog to share his thoughts on important issues affecting the careers and lives of U.S. IEEE members at:

<http://bmsmail3.ieee.org:80/u/10932/134673>

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TE Online: March 2008

The March 2008 edition of TE Online includes a Backscatter column on engineers joining mainstream popular culture, a feature on the outlook for 2008, résumé tips for engineers over 40, a look at what's keeping women out of IT, an analysis of the STEP Act, and more. Visit:

<http://bmsmail3.ieee.org:80/u/10931/134673>

2008 IEEE-USA Program Book

The 2008 IEEE-USA Program Book highlights IEEE-USA's mission, goals and programs, and was developed to increase awareness of IEEE-USA programs and services, provided to advance the engineering profession and for the benefit of the IEEE's U.S. members. It also serves as a handy reference for

members seeking information about specific programs or issues, or those who are looking for opportunities to volunteer their time and expertise in support of their profession. This e-book is available as a free IEEE member download. Members, to download your copy, go to <http://bmsmail3.ieee.org:80/u/10933/134673> and log-in with your IEEE Web account information. Then scroll down the page to product number UH3372.

2007 IEEE-USA Annual Report

The 2007 IEEE-USA Annual Report highlights IEEE-USA's progress and accomplishments in each of our 2007 priority areas, as well as our related efforts to promote the public awareness and appreciation of engineering and increase organization outreach and engagement of the IEEE's U.S. membership. This e-book is available as a free IEEE member download. Members, to download your copy, go to <http://bmsmail3.ieee.org:80/u/10934/134673> and log-in with your IEEE Web account information. Then scroll down the page to product number UH3371.

Make a Difference: Join CARE Now

Academic research shows that direct communication from constituents is the best way to influence elected officials. IEEE-USA's Congressional Advocacy Recruitment Effort (CARE) is a voluntary grassroots network of more than 10,000 IEEE members who are interested in effecting sound public policy by communicating support and/or concerns directly to legislative decision makers. Every year, the U.S. Congress and state legislatures debate hundreds of bills that could affect the careers and lives of U.S. IEEE members. From promoting broadband to regulating our electrical grid, from funding basic research to providing scholarships to engineering students, legislative decisions have an impact on IEEE members' careers in countless ways. Make your voice heard -- join today. For more information, visit:

<http://bmsmail3.ieee.org:80/u/10935/134673>

Tennessee Congressman Bart Gordon Honored for SET Leadership

Rep. Bart Gordon (D-Tenn.), chair of the House Science and Technology Committee, received the 2008 George E. Brown Jr. Science, Engineering and Technology Leadership Award for his leadership and commitment to ensuring that the United States remains a global leader in science and innovation. IEEE-USA President Russ Lefevre presented the award to Rep. Gordon on 4 March 2008 at a 2008 SET Congressional Visits Day reception at the Rayburn Building. For more information, visit:

<http://bmsmail3.ieee.org:80/u/10936/134673>

Photo Recap: 13th Annual SET Congressional Visits Day

On 4-5 March, some 40 U.S. IEEE members joined with like-minded members of the science, engineering and technology (SET) community in visits to congressional offices at the U.S. Capitol complex in Washington, D.C. Thirty-six organizations were represented at this year's events. For more information and a photo recap, visit:

<http://bmsmail3.ieee.org:80/u/10937/134673>

Participate in Global Marathon For, By and About Women in Science, Engineering and Technology

On 26-27 March, you can tie into 24 hours of continuous coverage that will align with the business day around the globe on the wide range of possibilities for women in science, technology, engineering and math careers. The 2008 Global Marathon For, By and About Women in Engineering is cosponsored by the IEEE-USA in conjunction with Engineers Week, celebrated globally and year-round. Last year's Marathon included live chats and online video conferences on such subjects as college and career strategies for students, Indian and Egyptian women in science and technology, how liberal arts majors can become technologists, and women in telecommunications,

An archive of last year's marathon can be viewed at <http://bmsmail3.ieee.org:80/u/10938/134673>. For more information on this year's event, go to <http://bmsmail3.ieee.org:80/u/10939/134673>.

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Webinar Presents Benefits of Long-Term Care Planning

Lengthening life spans mean more people will experience in their senior years acute or chronic ailments that require extended health care. In a free webinar sponsored by IEEE Financial Advantage, Steve Cain, Senior VP at MARSH Private Client Life Insurance Services, addresses the need for post-retirement health care planning from a personal risk-management perspective. The discussion includes funding options, Long Term Care Insurance, and tax implications.

Visit: <http://bmsmail3.ieee.org:80/u/10941/134673>

Free IEEE Webinar on Photonic Integrated Circuits

Learn about the latest advancements in photonic integrated circuits in an IEEE webinar taught by IEEE Fellow Christopher R. Doerr. "InP Photonic Integrated Circuits for Fiber-Optic Communications," scheduled for Wednesday, 9 April 2008 at 2:00 pm EDT, will provide an overview of the technology behind InP PICs, focusing on devices for fiber-optic communications that monolithically integrate two or more functions. Ideal for telecommunications design engineers, research and development engineers and engineering managers, this webinar will highlight how InP-based photonic integrated circuits (PICs) can simplify system designs, reduce space and power consumption, improve reliability and reduce the cost of deploying optical networks.

Sign up today at <http://bmsmail3.ieee.org:80/u/10942/134673> and receive a complimentary package of IEEE journals and conference proceedings for attending.

Embedded Systems Conference Offers Discount to IEEE Members

IEEE members can receive a 15 percent discount at this year's Embedded Systems Conference Silicon Valley, taking place from 14 to 17 April, in San Jose, Calif. And you can stop by the IEEE Spectrum booth, staffed by the Consultants Network of Silicon Valley, to exchange ideas about electrical, electronic, and software engineering. When registering, use the code UXIE10 at

<http://bmsmail3.ieee.org:80/u/10650/50505050>

Wanted: Occupational Experts for O*NET

The U.S. Department of Labor's O*NET Occupational Expert Data Collection program is looking for U.S. IEEE members with expertise in six occupational categories to answer questions about what the occupations involve in terms of knowledge, work activities, and work concepts. If you (or someone you

know) currently work as an electrical, electronics or electromechanical engineering technologist, or as a microsystems, robotics or mechatronics engineer; or if you have worked for at least a year in one of these occupations (under any job title) in the past, and your current work involves supervising or training one of these occupations, you could be qualified to help to enhance the nation's primary source of occupational data. Qualified professionals will fill out a questionnaire and receive a framed certificate and financial compensation for their participation. To determine if you qualify and to apply, go to <http://bmsmail3.ieee.org:80/u/10943/134673>

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Call for Proposals: Real-World Engineering Projects & Workshops

The IEEE is continuing with a second year of funding for a program to develop projects and workshops in IEEE fields of interest for use by faculty members worldwide working with first-year students in electrical engineering (EE), computer engineering (CE), computer science (CS) and electrical engineering technology (EET). EE, CE, CS and EET faculty are invited to participate. The deadline for abstracts is 15 April. For more information, visit: <http://bmsmail3.ieee.org:80/u/10944/134673>

Call for 2008 IEEE Educational Activities Board (EAB) Award Nominations

The IEEE Educational Activities Board (EAB) is once again seeking nominations to recognize and honor individuals, companies and IEEE Sections for their contributions to engineering and technical education. The deadline for the 2008 nominations is 30 April 2008.

The following eight (8) awards are open for nominations:

- IEEE EAB Meritorious Achievement Award in Accreditation Activities
- IEEE EAB Meritorious Achievement Award in Continuing Education
- IEEE EAB Meritorious Achievement Award in Informal Education
- IEEE EAB Major Educational Innovation Award
- IEEE EAB Pre-University Educator Award
- IEEE EAB Meritorious Service Citation
- IEEE EAB Employer Professional Development Award
- IEEE EAB Section Professional Development Award.

For complete award descriptions, honorarium details, access to nomination packets and to read about the 2007 EAB Award Recipients, visit <http://bmsmail3.ieee.org:80/u/10945/134673>
Please direct questions to eab-awards@ieee.org

IEEE Award Board Seeking Medals and Recognitions Nominations

The IEEE Awards Board is seeking nominations for IEEE Medals and Recognitions and encourages the use of its online Potential Nominee Form. This form allows a preliminary review of a nominee by the selection committee and an opportunity to obtain feedback prior to submitting a full nomination. The Potential Nominee Form is available on the IEEE Awards Web Page at <http://bmsmail3.ieee.org:80/u/10946/134673>.

Listen to Sir Arthur C. Clarke's Final Interview on Spectrum Radio

In the last interview before his death, science fiction writer Sir Arthur C. Clarke discussed terraforming planets, space elevators and the search for extraterrestrials with IEEE Spectrum Radio's Saswato Das. Clarke, author of 2001 A Space Odyssey, spoke with Das from a Sri Lankan hospital in January. He died 18 March at the age of 90.

Listen to the audio clip at:

<http://bmsmail3.ieee.org:80/u/10947/134673>

Read the IEEE SPECTRUM article at:

<http://bmsmail3.ieee.org:80/u/10948/134673>

Webinar Covers Personal Risk Management

Advances in medical treatment are prolonging lives. Unfortunately, living longer doesn't guarantee the quality of life. That's why the IEEE Financial Advantage Program sponsored a 12 March webinar on topics that include the benefits of long-term care planning, funding options, tax issues, pending legislation, medical underwriting, and financially strategic best practices. The webinar, "Long-Term Care Insurance: A Personal Risk Management Strategy," is geared to members aged 40 to 65.

Register and view the pre-recorded webinar at <http://bmsmail3.ieee.org:80/u/10949/134673>

Job Hunting?

The IEEE Job Site, available exclusively to IEEE members, can help you locate career opportunities easily and confidentially. Just complete a profile of your qualifications and requirements, and you'll be notified via email when a suitable job becomes available. IEEE Job Site was named one of the top online recruitment sites by Weddle's Guide to Employment Web Sites. And top employers know that IEEE members are the most qualified electro technology and information-technology professionals in the world. Take a few minutes to register with the IEEE Job Site and check out your career options today! <http://www.ieee.org/jobs>

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