

## Gene Stuffle

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**From:** owner-ieee-e-notice@bmsmail3.ieee.org on behalf of IEEE E-Notice [owner-education@bmsmail3.ieee.org]  
**Sent:** Friday, September 28, 2007 8:16 AM  
**To:** gene.stuffle@ieee.org  
**Subject:** IEEE-USA Today's Engineer E-mail Update: September 2007

Dear Subscriber:

Here's your monthly report from IEEE-USA on building careers and shaping public policy, from the editors of IEEE-USA Today's Engineer. The current version of Today's Engineer Online can always be found at:  
<http://bmsmail3.ieee.org:80/u/7223/58669>

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-Sponsor's Notice-

BAE Systems, Network Systems, is a recognized leader in the enterprise integration and development of national intelligence and C3I systems and software. We have achieved several strategic wins recently and this has created a hiring need in San Diego, CA; Reston, VA; Wayne, NJ; and Burlington, MA. We offer relocation support for all locations.

<http://bmsmail3.ieee.org:80/u/7224/58669>

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Bring Out the Vote  
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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/7225/58669>.

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/7226/58669>. 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/7227/58669> 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/7228/58669>

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Today's Engineer Online  
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September 2007 TE Online: Protecting Critical Infrastructures

The latest edition of IEEE-USA Today's Engineer Online features three articles on threats to and deficiencies in some of the nation's critical infrastructures, including the electric power grid and the nation's ports. To read these and other articles in the September edition of Today's Engineer Online, visit: <http://bmsmail3.ieee.org:80/u/7229/58669>

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Building Your Career  
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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/7230/58669>.

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/7231/58669>

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/7232/58669>

#### 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/7233/58669>

#### 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/7234/58669> 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/7235/58669>. For general information on the IEEE Education Partners Program visit <http://bmsmail3.ieee.org:80/u/7236/58669>.

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/7237/58669>

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/7238/58669>

Event details can be found here:  
<http://bmsmail3.ieee.org:80/u/7239/58669>

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/7240/58669>.  
For more information and to review the preliminary program visit  
<http://bmsmail3.ieee.org:80/u/7241/58669>

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Call to Action  
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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/7242/58669> 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/7243/58669>

#### 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/7244/58669> for engineering programs and

<http://bmsmail3.ieee.org:80/u/7245/58669> 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/7246/58669>.

Alternatively, make a donation when you renew your membership at <http://bmsmail3.ieee.org:80/u/7247/58669>. 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."

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For Student Members  
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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/7248/58669>.

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/7249/58669>

#### Gain Access to Free Development Software from Microsoft: IEEE Computer Society Student Members

All student members who join the IEEE Computer Society will automatically be 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. An MSDN user account with login information will be e-mailed on acceptance of an IEEE Computer Society application for student membership. For more information, go to <http://bmsmail3.ieee.org:80/u/7250/58669>.

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-Sponsor's Notice-

#### FutureBOSTON

Do you have a unique solution to a real-world, technology challenge that will make the Boston area a better place to live and work? Post your ideas for the whole world to see, receive feedback, collaborate with others and connect with venture capitalists in an IdeaJAM online competition! Cash prizes will be awarded. Register and start playing now! <http://bmsmail3.ieee.org:80/u/7251/58669>

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#### REMINDERS, RESOURCES & RECOGNITIONS -----

What's New @ IEEE-USA Eye on Washington  
<http://bmsmail3.ieee.org:80/u/7252/58669>

For the latest postings on the IEEE Job Site  
<http://bmsmail3.ieee.org:80/u/7253/58669>

IEEE-USA In the News  
<http://bmsmail3.ieee.org:80/u/7254/58669>

IEEE-USA Promoting Public Awareness of Engineering brochure (PDF)  
<http://bmsmail3.ieee.org:80/u/7255/58669>

What's New @ IEEE Newsletters  
<http://bmsmail3.ieee.org:80/u/7256/58669>

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#### Managing Your Subscription to IEEE-USA Today's Engineer E-mail Update:

IEEE-USA Today's Engineer E-mail Update is prepared monthly in Washington, D.C., by the staff of IEEE-USA Today's Engineer, a multimedia source for helping the IEEE's U.S. members build careers and shape public policy. U.S. members who have provided an e-mail address are

automatically subscribed to the Today's Engineer Update as a member benefit. The Today's Engineer Update is mailed in accordance with the IEEE E-mail Policy at: <http://elecomm.ieee.org/email-policy.shtml> and IEEE E-mail Acceptable Use Practices at: <http://elecomm.ieee.org/email-aup.shtml>

TO UNSUBSCRIBE: <http://ewh.ieee.org/enotice/options.php?LN=IEEEUSA>

To change member contact information on file with the IEEE:  
<http://www.ieee.org/membership/coa.xml>

To update your IEEE e-mail alias: <http://elecomm.ieee.org>

Membership Assistance: [member-services@ieee.org](mailto:member-services@ieee.org) (e-mail)  
+1 800 678 4333 (phone)  
+1 732 562 5445 (fax)

Questions or comments about IEEE-USA Today's Engineer E-mail Update should be directed to: <mailto:todaysengineer@ieee.org>

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