

**IEEE-USA** **2006** **ANNUAL REPORT**

# IEEE-USA

advances the public good and promotes the careers and public-policy interests of more than 220,000 engineers, scientists and allied professionals who are U.S. members of the IEEE. In 2006, under the leadership of IEEE-USA President Ralph W. Wyndrum, Jr., the organization focused on four primary areas of its mission:



*IEEE-USA 2006 President Ralph W. Wyndrum, Jr. delivers keynote address on new Internet at Federal IPv6 Summit in Reston, Va.*

- 1 To offer increased member value in products and services
- 2 To provide serious, career-long continuing education – to maintain a competitive U.S. workforce and to preserve careers
- 3 To provide innovation leadership
- 4 To support K-12 education for future technologists

This *IEEE-USA 2006 Annual Report* highlights each of these four areas. And it provides additional highlights of the organization's activities in government relations and public relations.

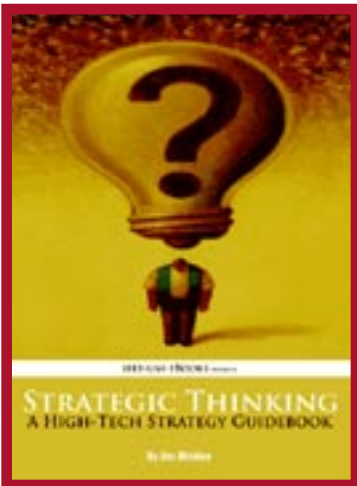
# IEEE-USA Mission Divided Into Four Primary Areas

## 1 Offer increased member value in products, services

- IEEE-USA launched the Entrepreneurs Village website to support individuals who create entrepreneurial businesses based on technology.



- IEEE-USA launched a revamped Employment Navigator website providing free member access to millions of online job listings.
- IEEE-USA grew its Employment and Career Services online community to over 2,600 users.



- IEEE-USA released 10 new titles in its eBook Series, including: “Engineer’s Guide to Lifelong Employability: What Are You Worth”; “The State of Radio Frequency Identification (RFID) Implementation and Its Policy Implications”; “The Best of *IEEE-USA Today’s Engineer*: On Career Survival”; “Career Planning Guide for IEEE Members”; and “Interoperability for the National Health Information Network.”
- IEEE-USA held multiple career and employment-related webinars: “Finding a Job that Fits My Skills and Interests”; “Interviewing Types and Preparation”; “It’s Time for the Interview”; and “Professional Ethics – Dominant and Escalating Effects on Employment and Careers.”
- In response to an IEEE member survey underscoring the need to address member concerns, IEEE-USA endorsed and promoted IEEE-wide benefits including new products in financial planning, insurance and job transitioning.

## 2 Provide serious, career-long continuing education to maintain a competitive U.S. workforce and to preserve careers

- In response to IEEE member concerns about the need for mid-career education, IEEE-USA endorsed and promoted IEEE Educational Activities programs for online degree and Web-based courses, including the IEEE Educational Partners Program, which gives IEEE members access to some 6,000 courses. These include fully accredited, degree-eligible engineering and computer science courses – offered at significant discounts – from schools such as Stevens, Drexel and University of Washington.
- Also, IEEE-USA collaborated with IEEE Educational Activities to provide the best of the IEEE’s educational content through one-hour online learning modules as part of the IEEE Expert Now program – with Web-based courses from aerospace to vehicular technology.



- In addition, IEEE-USA offered 29 courses in online leadership and customer service skills with its partner, Achieve Global.
- IEEE-USA sponsored more than 16 professional development seminars and 41 student professional awareness conferences (S-PACS).

## 3 Provide innovation leadership

- In an effort to help U.S. companies remain competitive and to respond to members’ concerns about maintaining their careers in a global economy, IEEE-USA is launching an Innovation Institute in 2007, including a pilot Innovation Forum and an online Innovation Network.
- IEEE-USA collaborated with various coalitions and societies in a coordinated effort to obtain passage of IEEE-USA-supported innovation legislation and appropriation funding for President Bush’s *American Competitiveness Initiative*.



*At NAE Innovation Conference in Washington, with (second from right) Norm Augustine, IEEE Fellow, retired chairman of Lockheed-Martin, and co-author of *Rising Above the Gathering Storm – Energizing and Employing America for a Brighter Economic Future*, were: IEEE-USA 2006 President Ralph W. Wyndrum, Jr. (second from left); 2007 IEEE-USA President John Meredith (right); and 2008 President Russell Lefevre (left).*

## 4 Support K-12 education for future technologists

- IEEE-USA joined with other members of the Science, Technology, Engineering and Math Coalition to secure Fiscal Year 2007 appropriations to continue the National Science Foundation's Math and Science Partnership Program and other targeted federal K-12 educational support programs.
- IEEE-USA continued to fund and support expansion of the IEEE-Educational Activities Board Teacher-in-Service Program in the United States. With the Teacher-in-Service-Program, the IEEE has converted electrotechnology activities into lesson plans – in English and Spanish – so that teachers around the world can easily use the information with their students. IEEE-USA also backed and promoted the IEEE-cosponsored Web portal for engineering careers, *tryengineering.org*.



IEEE Northern Virginia Section Member Maria Rodriguez enlightens youngsters at EWeek Family Day, cosponsored by IEEE-USA.



- IEEE-USA's Precollege Education Committee provided teacher grants and supported six Teacher-Engineer Partnership Awards to encourage collaborations on technology projects between K-12 teachers and U.S. IEEE members, as well as produced an engineering career brochure for middle-school youngsters distributed in scores of science museums nationwide.



Some 6,000 youngsters and adults enjoy engineering "hands-on" and "minds-on" activities at EWeek Family Day, held annually at the National Building Museum in Washington.



IEEE-USA launched the EWeek Future City Competition in 1993 and continues to support the competition with an annual Special Communications Award for the winning middle-school team.

- IEEE-USA cosponsored the EWeek 2006 "Discover Engineering Family Day"; sponsored the Special Communications Award for the EWeek 2006 Future City Competition; participated in EWeek "New Faces of Engineering" and "Girls Day" events; and placed three segments in the EWeek "Global Women's Marathon" activity.

# Other IEEE-USA Program Highlights in Government/Public Relations

## Government Relations

- IEEE-USA's five priority advocacy issues for 2006 were: innovation and competitiveness, immigration reform, retirement security, e-health and patent reform.



U.S. IEEE Members pose with Rep. Curt Weldon (R-Pa.), second from right, during annual Congressional Visits Day in Washington.

- IEEE-USA helped secure new laws extending retirement savings options; providing for use of technology in port security; extending the R&D tax credit; and fending off efforts to increase the H-1B visa cap without corresponding reforms.



IEEE-USA 2007 President John Meredith meets on IEEE-USA priority advocacy issues with congressional staff in Washington.

- IEEE-USA generated 62 policy communications to Congress, including six hearing statements.



- IEEE-USA organized and sponsored four congressional briefings on science and technology, innovation policy and engineering diversity.
- IEEE-USA helped establish the congressional radio frequency identification (RFID) caucus, a forum to discuss the benefits, policy challenges and innovation solutions of RFID.

- IEEE-USA supported three IEEE-USA government fellowships in Congress and at the State Department, as well as sponsored three IEEE student members in the Washington Internships for Students of Engineering (WISE) program.



*WISE participants, who research technology-policy subjects, assemble at U.S. Capitol.*



*IEEE-USA Government Fellows gather in Washington at: (1) (left photo) European Union diplomatic reception at Cosmos Club (in center, Engineering & Diplomacy Fellow Steve Czuchlewski); and (2) (right photo) National Building Museum (left to right, Congressional Fellow Steve Bonk, Diplomatic Fellow Czuchlewski, and Congressional Fellow Scott Jordan).*



## Public Relations

- To promote the public understanding of engineering, IEEE-USA sponsored two 2006 Mass Media Fellows: Ph.D. candidates Miriah Meyer of Salt Lake City; and Charles Emrich of Berkley, Calif., who were recruited and placed for summer internships at *The Chicago Tribune* and *The Sacramento Bee*. IEEE-USA is the only engineering society to participate in the AAAS-managed program and is among only a handful of sponsors that support more than one Mass Media Fellow.



- IEEE-USA underwrote, as a partner in the American Institute of Physics' "Discoveries and Breakthroughs," some 145 sci-tech news stories, sent to 66 media outlets and reaching an estimated audience of 75-million households.



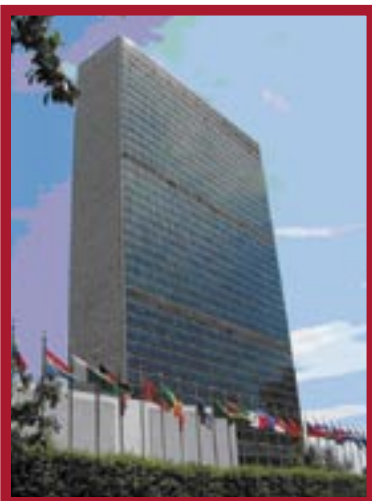
IEEE-USA is underwriting TV news spots on IEEE technologies, such as "Screens of the Future," aired on 66 U.S. television stations with a potential audience of 75-million viewers.

- IEEE-USA helped arrange for the IEEE to sponsor the PBS "Design Squad" engineering reality TV show, which premiered during EWeek 2007. The program features groups of teenagers competing in design challenges that incorporate basic engineering principles, which are intended to spark sci-tech interest in a pre-teen audience.



EWeek Family Day attendees review engineering challenges literature from "Design Squad" reality TV show cosponsored by the IEEE.

- IEEE-USA was the primary organizer and coordinated IEEE co-sponsorship (along with the Society of Women Engineers, Girl Scouts and EWeek) of a United Nations workshop on "Nurturing Science, Technology, Engineering and Math Skills in Young Females in Developing and Developed Countries." The workshop was held in conjunction with the 59th annual UN Department of Public Information/NGO Conference in New York.





- IEEE-USA sponsored five \$1,000 recognition awards for students who participate in volunteer capacity building projects for Engineers Without Borders (EWB)-USA. The awards, given in such areas as appropriate technology and sustainable legacy, were presented at the EWB-USA international conference at Rice University in Houston.



*EWB-USA volunteers engineer capacity building projects in developing countries.*

- IEEE-USA obtained news coverage of its activities in the following major media: NBC Nightly News, NPR’s “Science Friday,” CNN’s “Lou Dobbs Tonight,” Voice of America, AP, *The Washington Post* and *The Los Angeles Times*.



*Past IEEE Galveston Bay Section Chair Julian Morales (left) presents IEEE-USA student recognition awards to EWB-USA students in Houston.*



*Former IEEE-USA President Paul Kostek responds to questions about immigration reform on CNN.*



*2006 IEEE-USA President Ralph Wyndrum discusses how the United States can regain its lead in science and technology on NPR’s “Science Friday,” broadcast live from a studio in New York City.*

## 2006 IEEE-USA Board of Directors



*Seated front:* Scott Tamashiro, John Meredith, Ralph Wyndrum, Jr., Gerard Alphonse, Chris Brantley  
*Seated middle:* Thom Tullia, Bob Scolli, Ron Hira, Gregg Vaughn, Jean Eason, Barry Shoop  
*Standing:* George McClure, Russ Lefevre, Ron Jensen, Jim Howard, Burton Loupee, Bob Baldwin