



THE POCKET SCOPE



The Institute of Electrical and Electronics Engineers, Inc.

Volume 55, Number 6

February 2005

SCOPE NOTES

February Houston Section News

here: ESS (Houston Engineering and Scientific Society)
430 Westheimer@Yorktown

hen: Thursday, February 24, 2005
6:00 - 6:30 p.m. Social
6:30 - 7:30 p.m. Dinner
7:30 - 8:30 p.m. Speaker

ost: 10.00 - IEEE Members with 48-hour advance reservations.
20.00 - non-members
5.00 - students
all (713) 207-IEEE to make your reservations.

See Page 3 for the Continuing Education Schedule!

IEEEWEB ADDRESS
<http://www.ieee-houston.org>

IEEE Houston Section
P.O. Box
460443
Houston, Texas
770668014

The Chairman's Message

Scott Ballew

The Chairman's Message

Wow, the Houston Section is off to a very active start in 2005! Allow me to update you on two major activities currently underway in which the Houston Section is taking an active role.

The first issue is the 2005 Workforce Congressional "Fly-In" March 8th and 9th to Washington, D.C. The IEEE Houston Section EXCOM will be sending at least one and possibly two representatives (depending on availability) in support of the IEEE-USA Career and Workforce Policy Committee which has decided to target Texas as part of their March Careers "Fly-In". Specifically, they are targeting Sen. Cornyn, Congressman Tom Delay and Congressman Lamar Smith. This effort is to bring IEEE-USA's message on H-1B visas, offshoring and other employment issues to Congress. For more information on the Fly-In, please visit the following web address: <http://www.ieeeusa.org/policy/Careerflyin/default.asp>

The second issue is the Houston Section's participation in the IEEE PACE (The Professional Activities Committees for Engineers) 2005 Leadership Workshop in Tucson, Az. March 11th thru 13th in which we will be sending two representatives (Scott Ballew - Chairman and Gil Dolor - Past Chair). In addition, Donald Dunn (Region 5 South Area Chair and Houston Section Treasurer) will be attending, as well. To learn more about this workshop, please visit the following web address: <http://www.ieeeusa.org/calendar/conferences/2005workshop/default.asp>

In addition, only a few days away from our first Section meeting for 2005 which will be held at the HESS Building on Thursday, February 24th. Dr. Ann Jennings, will give a presentation titled "Creating Presentations: Content and Form". Her presentation explores several techniques that can be used to increase the impact of a PowerPoint slide show, and in fact, will cover several concepts commonly used in sales. In an effort to increase our attendance numbers at our Section meetings, the EXCOM recently decided to make the February Section meeting theme "bring a friend". To encourage bringing those individuals that do not normally attend, the EXCOM has decided to promote "bring a friend" and your friend eats for free. That's right, only one of you will be charged an admission fee, if you are bringing a

CONTINUED ON PAGE 2

Chair Message-CONT

friend. Please do bring a friend to this Section meeting and enjoy a truly worthwhile presentation on a topic that can have a very positive impact on your career.

And finally, on behalf of the Executive Committee, I want to extend our congratulations to Joseph R. Cavallaro, Ali M. Cortez, Edward N. Johnson and Alister G. Smith, members of the Houston Section who were recently elected to the IEEE Senior Member Grade. Also, congratulations go out to John W. Clark, Willis K. King and Cam Nguyen on their recent upgrade to IEEE Fellow Member Grade. You too may be eligible for membership upgrade. Please contact one of the EXCOM members for more information in upgrading your membership.

And, as always, the Executive Committee and I look forward to your feedback and comments. If you have suggestions and/or are interested in becoming active within the Houston Section or a Society Chapter, contact one of us. Your active participation and feedback is most welcome and very beneficial in ensuring that the programs and content of the IEEE Houston Section brings the most value.

Scott Ballew
Houston Section Chair

CED Seminar News

CED Houston announces the following revised registration fee schedule for its new 2004-2005 technical seminars.

The registration fee for IEEE members is \$70. The fee for non-members is \$140. The registration fee for student IEEE members will be \$50

Seminar registration and payment must be received the Friday before the seminar. Seminar registration closes at 5:00 p.m. the Friday before the seminar. No exceptions.

Pre-registration with "payment at the door" is acceptable under certain circumstances. Anyone promising to pay at the door and failing to show up will be debited and invoiced for the full amount of the registration fee.

IEEE CONTINUING EDUCATION ON DEMAND

2004-2005 REGISTRATION FORM

Name:
 Company:
 Mailing Address:
 City/State:
 Zip:
 Email:
 Telephone:
 Fax:
 IEEE Membership Number:

Mail a copy of your completed registration form along with your check payable to **IEEE CED SEMINARS** at the following address:
 IEEE CED SEMINARS

PAT ROGERS
 SOUTHWEST POWER
 425 BLUEBERRY STREET
 HOUSTON, TX 77018
progers@swpower.com

Registration receipts will be available upon request **at the seminars**.
 For a cancellation refund, telephone Pat Rogers by the Friday before the seminar at:

Phone: 713.696.9922
 Fax: 713.696.9983
 Email: progers@swpower.com

IEEE Continuing Education on Demand Completion Certificate with Continuing Education Units (CEUs) is provided after receipt of both nightly questionnaires and seminar evaluation sheets.

Please direct seminar questions to Paul Barrett at 713.598.0790

Please check the IEEE Houston Section website for the latest schedule and course information.

<http://www.ieee-houston.org>

IEEE CONTINUING EDUCATION ON DEMAND

The purpose of IEEE Houston Section Continuing Education on Demand is to provide modern practical industrial power application topics that supplement the daily work activities of the practicing graduate electrical engineer.

The seminars are intended to stimulate further study and discussion for learning continuance throughout the working career. Topics apply to heavy industries: oil and gas, petro-chem, cogen, pulp and paper, etc.

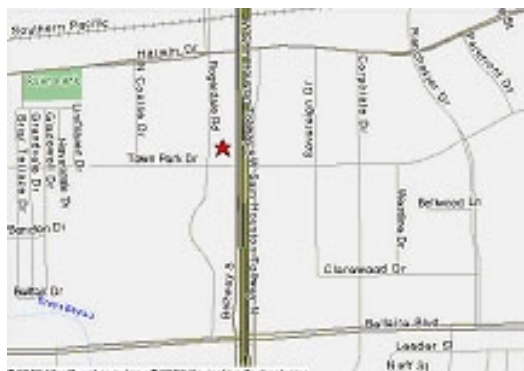
Instructors are application engineers, manufacturing specialists and expert consultants who provide a blend of diverse engineering perspectives.

The cost of each seminar is \$70.00 for IEEE members. The **check must be received the Friday before the Seminar start date**. The cost for non-IEEE members is \$140.00. The cost for student members is \$50.00.

Registration closes at 5:00pm the Friday before each seminar.

The following 2004-2005 seminar schedule defines the topics, dates and times. A course syllabus is available on request. Minimum class size is twenty for each seminar. Seating is limited and filled on an as received basis. Presentation documents are provided. A buffet is served from 5:00PM-6:00PM.

Seminar location:
Jacobs Engineering
 5995 Rogerdale Road
 Houston, TX. 77072



Seminar Title	C code	Date	Amount
Arc Flash / Arc Resistance	705	Oct. 12/13	\$
Protective Relay 1 Beckwith	311	Oct. 26/27	\$
IEC Electrical Equipment	802	Nov. 9/ 10	\$
Protective Relay 2 Multilin	312	Feb. 1/2	\$
IEC - NEC Area Classification	803	Feb. 15/16	\$
Protective Relay 3 Basler	313	Mar. 1/2	\$
Field Testing of Large Power Transformers	904	Mar. 15/16	\$
Protective Relay 4 SEL	314	Mar. 29/30	\$
National Electric Code	920	Apr. 12/13	\$
Advanced MV Switchgear and Breaker Stds	307	Apr. 26/27	\$
Total Paid:			\$

Enter amount for each seminar:

IEEE member registration: \$ 70.00
 Non-member registration: \$140.00
 Student member registration: \$ 50.00

Fall of 2004 IEEE Seminar Schedule

Arc Flash / Arc Resistance (705)

James Bowen, Powell Electric Mfg. Co.

Oct. 12/13, 2004 6:00-8:50PM

Review of fundamentals and design theories. Post event forensic observations and lessons learned. **[.0.5 CEU]**

Protective Relay 1 - Beckwith (311)

Wayne Hartmann, Beckwith Electric Co.

Oct. 26/27, 2004 6:00-8:50PM

Review of Beckwith relay design fundamentals and application considerations **[.0.5 CEU]**

IEC Electrical Equipment (802)

Tom Malone, Areva T&D Corp.

Nov. 9/10, 2004 6:00-8:50PM

Reviews IEC guidelines and standards for electrical distribution equipment. Presentation will focus on power transformers and switchgear. **[.0.5 CEU]**

Spring of 2005 IEEE Seminar Schedule

Protective Relay 2 - GE Multilin (312)

Jackov Viko, GE Multilin -Canada

Feb. 1/2, 2005 6:00-8:50PM

Review of GE Multilin Relay design fundamentals and application considerations. **[.0.5 CEU]**

IEC / NEC Area Classification (803)

Bob Johnson, Source IEC

Feb. 15/16, 2005 6:00-8:50PM

A detailed presentation on IEC's approach to hazardous area classifications and related international standards. **[.0.5 CEU]**



IEEE

**IEEE
 Houston
 Section**

2004-2005

**Continuing
 Education
 On Demand**



Protective Relay 3 - Basler (313)

Gerald Dalke, Basler Electric Co.

Mar. 1/2, 2005 6:00-8:50PM

Review of Basler relay design fundamentals and application considerations. **[.0.5 CEU]**

Field Testing of Large Power Transformers (904)

Randy Slaybaugh, Substation Services, Inc.

Mar. 15/16, 2005 6:00-8:50PM

A detailed presentation on field testing techniques and considerations for large power transformers. **[.0.5 CEU]**

Protective Relay 4 - SEL (314)

David Costello, SEL Inc.

Mar. 29/30, 2005 6:00-8:50PM

Review of SEL relay design fundamentals, set-up, programming and application considerations. **[.0.5 CEU]**

National Electric Code (920)

Eddie Guidry, Fluor Corp.

April. 12/13, 2005 6:00-8:50PM

Review and update on current NEC. Lecture will focus on design issues and application considerations. **[.0.5 CEU]**

Advanced MV Switchgear and Breaker Stds. (310)

James Bowen, Powell Electric Mfg. Co.

Apr. 26/27, 2005 6:00-8:50PM

Reviews advanced theories and application considerations related to MV Swgr and Ckt Bkr design. **[.0.5 CEU]**

New IEEE Fellows!

Congratulations on Recent Fellow Member Upgrades from the Houston Section!

John W. Clark

Rice University
Houston, TX, USA

for contributions to modeling in electrophysiology, and cardiopulmonary systems.

Willis K. King

University of Houston
Houston, Texas, USA

for contributions to computer science and engineering education.

Cam Nguyen

National Science Foundation
College Station, TX, USA

for contributions to microwave integrated circuits and systems

Bjarne Stroustrup

Texas A&M University
College Station, TX, USA

for contributions to the creation of the C++ programming language and its applications.

The grade of Fellow first appeared in the AIEE constitution of 1912. In that year, the AIEE revised its membership structure and established the grade of Fellow for those engineers who had demonstrated outstanding proficiency and had achieved distinction in their profession. Potential Fellows had to be at least thirty-two years of age, with a minimum of ten years experience. When the IRE established its Fellow grade in 1914, the requirements were clearly modeled on those of the AIEE. Much of the wording in the relevant sections of the IRE constitution is identical to the corresponding wording in the AIEE constitution.

Sensors for Industry Conference

Subject: Sensors for Industry Conference, Training, and Exhibition – 8-10 February 2005 - Houston, Texas

Sponsored by the IEEE and the ISA.

The attached flyer has all pertinent information or visit the following website. www.siconference.org

Time and date: Monday, 7 February Training Seminars from 8-4pm. Tuesday & Wednesday 8-9 February Conference from 8-5pm. Thursday, 10 February Conference from 8-2pm.

Where: Houston Hobby Airport Marriott, 9100 Gulf Freeway, Houston, TX, 77017 USA

New Senior Members

Congratulations to the recently elected Senior Members from the Houston Section (January). For a complete list of the new Senior Members see the attached link.

www.ieee.org/organizations/rab/md/smupdates.html

Joseph R. Cavallaro

Ali M. Cortez

Edward N. Johnson

Alister G. Smith

Looking for Senior Member Nominations

READ THIS SECTION TO BECOME A SENIOR MEMBER IN THE IEEE.

A goal of our Region is to sponsor as many Senior Members as possible and I am asking your help. The IEEE criteria for Senior Member status is ten years of professional practice including five years of significant performance, and references. (See the nominator letter and application form for clarification on the IEEE website.) If you know an IEEE member who qualifies for Senior Membership, I would like you to nominate him or her by forwarding their nomination to one of the Houston Section Excom members. If you qualify and are not a senior member please reply to one of the Section Excom members. If your are retired and have met the criteria at one time lets get you nominated. Section meetings are the best networking tool to achieve Senior membership.

As an alternative process, you can direct the prospective Senior Member to one of the Houston Section Excom Members. We have a list of several Fellows and Senior Members which we can use for references. The Section will nominate all those qualified who provide a resume and significant performance vita.

Senior Membership in IEEE promotes the value of membership and enhances the status of the member. The is an achievement award lets honor our deserving members.

IEEE Houston Section Officer

EXECUTIVE OFFICERS FOR 2005

The following Houston Section members will serve as Executive Officers during the year 2005

Past Chairman - Gilroy Dolor
Chairman - Scott Ballew
Vice-Chairman - Charles Benard
Secretary - Polo Gutierrez
Director - Shannon Quadros
Treasurer - Donald Dunn

These members were elected at the December 2, 2003, IEEE Houston Section Meeting.

The members of the Nominations Committee were: Donald Dunn, Justo Benitez and Dwayne Lowry.

IEEE Houston Section CED Seminar Update

New CED Seminars for 2005 Kickoff Feb 1st

IEEE CED Houston announces that it's Spring schedule of seminars begins **Feb 1-2** with Protective Relay 2 – GE Multilin. Jakov Vico of GE Multilin-Canada will review solid state protective relay design fundamentals and application considerations for challenging industrial applications. Presentation focus will be on the UR and SR family of relays. **Feb 15-16** Bob Johnson of Source IEC will present a much anticipated lecture on IEC Hazardous Area Classifications and related international standards.

Seating is limited. Make your reservations early. Questions related to the seminars? Contact Paul Barrett
(713) 598-0790

IEEE USA News

News from IEEE-USA

1828 L Street N.W., Suite 1202, Washington, D.C. 20036-5104

Congressman Rohrabacher and Former IEEE-USA Board Member Head 2004 IEEE-USA Award Recipients

WASHINGTON (9 February 2005) — Rep. Dana Rohrabacher (R-Calif.), former chairman of the House Science Committee's Subcommittee on Space and Aeronautics; and Dr. Charles P. Rubenstein, a 2003 member of the IEEE-USA Board of Directors and Operating Committee, will receive IEEE-USA professional awards.

Rohrabacher and Rubenstein join fellow IEEE-USA award recipients in recognition of their professionalism and technical achievements, as well as literary contributions to public awareness and understanding of the engineering profession in the United States.

Rohrabacher is being honored with the IEEE-USA Distinguished Public Service Award "for long-term support of IEEE-USA's Congressional Fellowship program and leadership on federal policy issues of concern to the engineering community." Steve Watkins served as an IEEE-USA Congressional Fellow last year in Rohrabacher's office, and Randall Brouwer holds the position in 2005.

Rubenstein, who lives in Massapequa, N.Y., is receiving IEEE-USA's highest honor, the Robert S. Walleigh Distinguished Contributions to Engineering Professionalism Award. An IEEE senior member and active volunteer, Rubenstein works as a tenured professor of information science at New York's Pratt Institute graduate School of Information and Library Science. He is being recognized "for sustained leadership and inspiration in professional activities within the IEEE Divisions and Regions."

IEEE-USA's distinguished awards are administered under its Awards and Recognition Committee and approved by the IEEE-USA Board of Directors. They will be presented at a 12 March awards ceremony held in conjunction with the IEEE-USA Leadership Workshop in Tucson, Ariz.

(<http://www.ieeeusa.org/calendar/conferences/2005workshop/default.asp>).

Here's the complete list of 2004 award recipients:

Professional Awards

ROBERT S. WALLEIGH DISTINGUISHED CONTRIBUTIONS TO ENGINEERING PROFESSIONALISM AWARD

Charles P. Rubenstein

"For sustained leadership and inspiration in professional activities within the IEEE Divisions and Regions"

DISTINGUISHED PUBLIC SERVICE

Dana Rohrabacher

"For long-term support of IEEE-USA's Congressional Fellowship program and leadership on federal policy issues of concern to the engineering community"

PRECOLLEGE EDUCATION COMMITTEE TEACHER-ENGINEER PARTNERSHIP

Mark R. Rognstad & William G. Speed, Jr.

"For providing mentorship, support, and encouragement to students interested in science, technology, and mathematics through engineering competitions at the local, regional and national levels"

CITATION OF HONOR

Donald W. Hill

"For sustained leadership in PACE activities at the national level"

Philip Holmer

"For leadership in providing analysis and guidance regarding technology policy to Congress"

IEEE USA News-Cont

as Chair of IEEE-USA's Committee on Transportation and Aerospace Technology Policy"

Glenn S. Tenney

"For increasing the visibility of the IEEE-USA Intellectual Property Committee, and contributing to testimony presented to the Senate Judiciary Committee regarding the Inducing Infringement of Copyrights Act of 2004"

George W. Zobrist

"For enthusiastic service on behalf of the professional needs of U.S. members and students as Editor of IEEE Potentials Magazine and Member Activities Editor for IEEE-USA Today's Engineer and News & Views"

REGIONAL PROFESSIONAL LEADERSHIP AWARD

Parviz Famouri (Region 2)

"For organizing and executing PACE training sessions for Sections in Region 2 having limited PACE activities"

Robert H. Gauger (Regional)

"For efforts to improve professional standards, integrity and business practices of U.S. IEEE consulting engineers"

Tarek Lahdhiri (Region 4)

"For providing professional training to Sections, Chapters and PACE leaders within Region 4"

William Marshall (Region 3)

"For championing new programs within the Atlanta Section, in areas such as PACE, GOLD, K-12 Outreach, and Industry Relations"

Winnfort J. Myles (Region 6)

"For effectively communicating professional ideas, and educating and training other leaders in Region 6"

Hamid Vakilzadian (Region 4)

"For efforts in promoting PACE activities within the Nebraska Section and the West Area of Region 4"Hamid

PROFESSIONAL ACHIEVEMENT AWARD

Luke R. Maki

"For significantly improving the IEEE-USA Committee on Communications and Information Policy's effectiveness and image in the technology policy areas of broadband communication and improved spectrum use"

George F. McClure

"For pioneering the research and dissemination of information concerning the outsourcing of engineering jobs to other countries, and its effects on U.S. engineers"

C. Lee Stogner

"For reestablishing the IEEE-USA Government Activities Committee, and focusing its activities on member interaction with state legislatures and Congress"

IEEE USA News-Cont

Technical Awards

HARRY DIAMOND MEMORIAL AWARD

Robert K. Parker

"For leadership in radio frequency vacuum electronics, and pioneering technical contributions in the fields of intense relativistic electron beam technology, free electron lasers and gyro-amplifiers"

ELECTROTECHNOLOGY TRANSFER AWARD

David O. Patterson

"For spearheading development of advanced lithographic approaches and tools that foster exceptional advances in Department of Defense system capabilities and their transfer to commercial application"

Literary Awards

DISTINGUISHED LITERARY CONTRIBUTIONS FURTHERING PUBLIC UNDERSTANDING OF THE PROFESSION

William J. Mitchell

"For increasing public understanding of information technology in everyday life through his book, Me++: The Cyborg Self and the Networked City"

Terri Spitz, Steven Cooper and Scott Schroeder

"For increasing public understanding of the impacts on engineering employment due to the H-1B and L-1 visa programs through their TV news series, Stolen Jobs"

For more information, visit the IEEE-USA Awards and Recognition Web page at <http://www.ieeeusa.org/volunteers/committees/awards/>, or contact Sandra Kim at sandra.kim@ieee.org. Nominations are being accepted for the 2005 awards. The deadline is 31 July 2005.

IEEE-USA is an organizational unit of the IEEE. It was created in 1973 to advance the public good and promote the careers and public policy interests of the more than 220,000 technology professionals who are U.S. members of the IEEE. The IEEE is the world's largest technical professional society.

For more information, go to <http://www.ieeeusa.org>.

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Contact: Chris McManes

Senior Public Relations Coordinator

Phone: + 1 202 785 0017, ext. 8356

E-Mail: c.mcmanes@ieee.org

IEEE Career Alert

IEEE CAREER ALERT for 2 Feb 2005

Your weekly report on jobs, education, management, and the engineering workplace, from the editors of IEEE Spectrum

IN THIS ISSUE:

1. Companies Rehire Laid-off Employees
2. The Power of Networking
3. Job Hunting at Work?
4. Interview: Barbara Liskov

1. Companies Rehire Laid-off Employees

After undergoing several rounds of layoffs in recent years, many companies are starting to rebuild their staffs. The market isn't booming yet though, and employers want to keep their costs low. One way to do that is to rehire former employees, which minimizes training time and costs. Read more about finding a new job with an ex-employer at

<http://www.careerjournal.com/jobhunting/jungle/20050202-jungle.html?cjpos=home_whatsnew_major>

2. The Power of Networking

Many people dislike the idea of getting a job through personal connections, or find it simply frustrating. But networking is never a waste of time. It's a slow-and-steady effort and you might not always see its benefits directly or immediately. To become a successful networker, get a list of pointers at

<<http://chronicle.com/jobs/2005/01/2005012001c.htm>>

3. Job Hunting at Work?

If you are, you know that it's hard to hide your job hunt from your colleagues and supervisors. Everything from modern office layouts to employee-monitoring software make your job search difficult. But there are many ways to look for that new job. Read on at

<<http://www.computerworld.com/careertopics/careers/story/0.10801.99408.00.html?SKC=careers-99408>>

4. Interview: Barbara Liskov

Barbara Liskov, Ford Professor of Engineering in the Department of Electrical Engineering and Computer Science at MIT, recently received the IEEE John von Neumann Medal for 2004 for her "fundamental contributions to programming languages, programming methodology, and distributed systems." Read Liskov's reflections on her career as well as her advice to young researchers here:

<http://dsonline.computer.org/portal/site/dsonline/menuitem.6dd2a408dbe4a94be487e0606bcd45f3/index.jsp?&pName=dso_level1_article&TheCat=1001&path=dsonline/0502&file=o2002.xml&>

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 electrotechnology 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>>

IEEE Career Alert is part of the What's New @IEEE email news service. For more information on subscribing to other What's New newsletters, visit <<http://whatsnew.ieee.org/>>

IEEE-USA Needs Help!

IEEE-USA Needs Help!

Early this year, Congress will begin debating legislation that could profoundly effect American engineering professionals. We Need IEEE Members to Come to Washington on March 8th and 9th to Help Us Defend Your Profession!

IEEE engineers face an unprecedented challenge, and an equal opportunity, this year. Done right, pending legislation could strengthen America's long-term competitiveness and prosperity. Done wrong, these proposed reforms could undermine job opportunities and retirement security for many American professionals, including engineers and scientists. It all depends on what Congress decides to do.

Among the many important issues that Congress will debate this year the most important for engineers include proposals to:

- Expand the country's temporary work visa program. Although it will target low-skill workers, this proposal could substantially increase the number of temporary visas available for foreign professionals.
- Partially privatize Social Security and strengthen the nation's defined pension system.
- Change the processing of visas international students need to study in the U.S. Some proposals would make the student admissions process more restrictive. Others will expedite student admissions.
- Make it easier foreign engineers and scientists to permanent residents of the U.S.

IEEE-USA will be working aggressively to protect the interests of IEEE members, but we can't do it alone. We need help from individual IEEE members who are concerned about the future of their profession.

On the afternoon of March 8th, 2005 we invite all concerned engineers to meet us on Capitol Hill for an intensive training session on key professional careers issues. Then on March 9th, you will visit with your legislators to discuss the state of engineering in America and practical ways Congress can improve it.

All IEEE members in Regions 1 - 6 are encouraged to participate, including students and retired engineers. No experience is necessary. All you need is a willingness to try to make the country better. IEEE-USA will provide you with background on pending legislation and tips on holding successful meetings with members of Congress.

IEEE-USA held a very successful similar event last year. Only two of the participants had ever met a lawmaker before, yet all were able to successfully communicate personal concerns and practical recommendations to their legislators.

More information on the 2005 IEEE-USA Careers Fly-In, including how to register, can be found here: www.ieeeusa.org/policy/Careerflyin. Limited support for a few IEEE members from key legislative districts will also be available.

Questions? Contact Vin O'Neil or Russ Harrison at (202) 785-0017 or e-mail Russ at r.t.harrison@ieee.org.

IEEE USA Files Amicus Brief

News from IEEE-USA

1828 L Street N.W., Suite 1202, Washington, D.C. 20036-5104

IEEE-USA Supports Reverse Engineering in Brief Before Eighth Circuit Court of Appeals

WASHINGTON (9 February 2005) — IEEE-USA filed an amicus curiae brief on 24 January in support of reverse engineering for interoperability in the U.S. Court of Appeals for the Eighth Circuit in the case of *Blizzard Entertainment v. Internet Gateway* (No. 04-3654).

IEEE-USA's "friend-of-the-court" brief seeks reversal of a September 2004 Federal District Court decision in favor of Blizzard, a computer game company. The Court basically ruled that by opening the shrink wrap of a software package, or clicking on a button during installation, the end user gives up fair use rights, including reverse engineering, granted under Section 107 of the Copyright Act.

Reverse engineering is a common and recognized practice, particularly in computer software, and is extremely important to technological advancement. IEEE-USA defines reverse engineering as the discovery by engineering techniques of the underlying ideas and principles that govern how a machine, computer program or other technological device works.

"Ultimately, the greatest benefits from reverse engineering are reaped by the public at large," IEEE-USA's brief said. "The positive exploitation of ideas expressed in copyrighted works over the past two decades is readily apparent: advanced, competitive computer software industries have fueled the explosive and enlightening development of the Internet as well as many technology-based modern products."

According to IEEE-USA, by exploiting shrink-wrap and click-wrap agreements, software publishers have attempted to use state-based contract law to trump fair-use rights granted under federal law. The organization believes that such agreements pose a danger to "the nation's intellectual property system" and will chill innovation.

IEEE-USA is an organizational unit of the IEEE. It was created in 1973 to advance the public good and promote the careers and public policy interests of the more than 220,000 technology professionals who are U.S. members of the IEEE. The IEEE is the world's largest technical professional society. For more information, go to <http://www.ieeeusa.org>.

Contact: Chris McManes
Senior Public Relations Coordinator
Phone: + 1 202 785 0017, ext. 8356
E-Mail: c.mcmanes@ieee.org

IEEE Pre-College Education Program

IEEE Organizing Global Pre-College Technology Education Program

Continuing in its tradition of innovation, IEEE is taking the lead in developing a new non-discriminatory global pre-college technology education program. The program titled, emeritbadges.org, will be directed globally towards pre-college boys and girls.

[Emeritbadges.org](http://emeritbadges.org) has developed hands-on electricity and electronics instructional material based on the Boy Scouts merit badge requirements. Instructional material for computer education is being developed. Any student, boy or girl can use the program to enhance technical literacy and learn more about viable engineering and other technical career options.

Emeritbadges.org Project Director Ralph W. Russell, II from the IEEE Richmond, VA Section said that this non-discriminatory program would be promoted globally through IEEE and youth programs such as World Organization of the Scout Movement and The World Association of Girl Guides and Girl Scouts. The next use of the new global pre-college electronics education material and hands-on kit will be at the 2005 National Scout Jamboree in Caroline County, VA, USA. Over 35,000 scouts will attend the Jamboree from the USA and several other countries.

Project leaders have started discussions with national and regional Girl Scout leaders to develop a method of incorporating the emeritbadges.org program into the Girl Scout program. The next step will be to start discussions with the global World Organization of the Scout Movement and The World Association of Girl Guides and Girl Scouts.

The 2005 Jamboree will be held at Fort A. P. Hill in Caroline, Virginia. The Jamboree will start on Monday, 25 July 2002 and end on Wednesday, 3 August 2005. Hundreds of volunteers that can serve as Assistant Instructors at the Jamboree Electronics Merit Badge booth for at least two days are needed. Additional project and volunteer information can be found at <http://www.emeritbadges.org>.

IEEE NEWS

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6. Marketplace of Ideas: A Place in Space
7. IEEE Members Get Discount on Intel Developer Forum
8. Register Now for Student-Made Video Competition

SPONSORED BY:

MIT PROFESSIONAL INSTITUTE — SUMMER SESSION 2005

The Massachusetts Institute of Technology is currently accepting registrations for more than 40 intensive, week-long programs designed especially for professionals. Courses taught on campus by MIT faculty from June through August. Offerings include biotechnology, chemical engineering, energy, IT, mechanical engineering, MEMS, physics, nanotechnology, technology policy, system architecture, telecommunications, and other topics of vital interest to today's engineers and scientists.

Please visit our website <http://boldfish.ieee.org/u/mit6c/00086579>

1. Virtual Society Provides Real Benefits

For a society formed only a year ago, the IEEE Product Safety Engineering Society has quickly become popular. At the end of 2004, it had 474 members, a 138 percent jump from the 198 members with which it began the year. Find out what's behind the society's growth at <http://boldfish.ieee.org/u/society6d/00086579>

2. More Articles Take to Online Preview

The number of IEEE transactions and journals that post articles online before they're available in print has soared over the last four years. Thirty-three publications now offer such article previews, up from just one in 2001. Read more at <http://boldfish.ieee.org/u/preview/00086579>

3. Telecommunications Pioneers Tell Their Stories in New Book

"The Marconi Century," written by staffers from the IEEE History Center, chronicles the work of the innovators behind the telecommunications achievements of the last 100 years, from wireless telegraphy and radio to the Google search engine. The book also contains interviews with many of the pioneering scientists and engineers behind some of the more recent advances. Find out more at <http://boldfish.ieee.org/u/book/00086579>

SPONSOR'S NOTICE:

Edmund Optics' new January 2005 catalog contains over 7,000 products to assist in your demanding applications. Among the 200+ new products are Near-IR Neutral Density Filters, RazorEdge(tm) Longpass Filters, and EO Designed High-Resolution Micro Video Lenses. It also includes real world application notes to assist you with many applications. Large volume discounts for OEM customers are included. To receive a copy, visit <http://boldfish.ieee.org/u/edmund6g/00086579>

4. Scout's Honor: Engineering Is Cool

IEEE Member Ralph Russell is scouting around for the next generation of electrical engineers and he's finding them through his work with the Boy Scouts of America. For the past 20 years, he's led a partnership between the IEEE and the Boy Scouts to promote the technological literacy of young people. Find out more at <http://boldfish.ieee.org/u/russell6h/00086579>

5. The Institute Seeks Members Involved in Post-Tsunami Rebuilding

If you or an IEEE colleague are helping to rebuild vital infrastructure in countries

IEEE NEWS - CONT

affected by the tsunami in Southeast Asia, or if you're developing systems to predict future tidal waves and provide early warning. The Institute wants to hear from you for an upcoming article. Write to <<mailto:k.kowalenko@ieee.org>>

6. Marketplace of Ideas: A Place in Space

The Hubble Space Telescope's main batteries are likely to fail by 2009, putting the observatory out of action permanently. Should Hubble be serviced and saved or replaced and left for scrap? Why? Weigh in at <<mailto:institute@ieee.org>>

SPONSOR'S NOTICE:

Interested in a Master's in Electrical Engineering? Obtain it ONLINE from Drexel University's College of Engineering, the third largest private engineering college in the US. Visit us online to receive the latest information about this program. Courses begin September 2005. Other online degrees include: MS in Engineering Management, MBA and more. Special rates for IEEE members! For more information, visit: <http://boldfish.ieee.org/u/drexel6i/00086579>

7. IEEE Members Get Discount on Intel Developer Forum

Register by 27 February and receive a US \$320 discount on registration to the conference, to be held 1-3 March in San Francisco. Topics covered will include innovations in systems and communications technologies. Also, stop by and visit the IEEE Spectrum and IEEE Computer Society booths, which will be on the exhibition floor at the conference. To register for the conference, visit <http://boldfish.ieee.org/u/forum6j/00086579> and enter code: SGTEMSGB.

8. Register Now for Student-Made Video Competition

Named after Leonardo da Vinci, VINNY is an award given to students from around the world in grades K-12 for the best one-minute videos explaining how science, technology, engineering, and mathematics can help solve such common problems as environmental pollution or food distribution. The IEEE Foundation is a cosponsor. Teachers must register a team of students by 15 February. The students will have to submit their video for judging by 1 April. For more information on the contest, visit <http://boldfish.ieee.org/u/video6k/00086579>

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IEEE EAB/History News

NEWS FROM IEEE EDUCATIONAL ACTIVITIES AND THE HISTORY CENTER (1st Quarter 2005)

REGISTER NOW FOR VINNY COMPETITION

Named after Leonardo da Vinci, VINNY is an award given to students in grades K-12 for the best one-minute videos explaining how science, technology, engineering, and mathematics (STEM) can help solve common global problems. VINNY is a worldwide video competition designed to build awareness of STEM. Teams of 3 students and 1 teacher will identify and research a global problem and discover ways that STEM can help solve it. The teams will create a one-minute video explaining the global problem and a possible STEM solution. There are 3 levels of competition: grades K-5, 6-8, and 9-12. The award is given in both English and Spanish, for a total of 6 categories and prizes.

The VINNY website is available at <http://vinny.pcs.cnu.edu>. The deadline for registration is February 15, 2005. VINNY is proudly sponsored by the NASA Center for Distance Learning, Christopher Newport University, and the Institute of Electrical and Electronics Engineers (IEEE). Funding for the project is providing by the IEEE Foundation.

CALL FOR 2005 EAB AWARD NOMINATIONS

The IEEE Educational Activities Board is accepting nominations of IEEE members for its annual awards. The deadline for nominations is 30 April 2005. Awards include: IEEE EAB Meritorious Achievement Award in Accreditation Activities; IEEE EAB Meritorious Achievement Award in Continuing Education; IEEE EAB Major Educational Innovation Award; IEEE EAB Pre-College Educator Award; IEEE EAB Meritorious Service Citation; IEEE EAB Employer Professional Development Award; And FOR THE FIRST TIME IN 2005 - IEEE EAB Society/Council Professional Development Award (PLEASE NOTE that the EAB Society/Council Professional Development Award is offered in odd-numbered years alternating with the Section Professional Development Award which is offered in even-numbered years).

For award descriptions, honorarium details, and nominations packets, visit <http://www.ieee.org/organizations/eab/EABAwards/callnominations-2005.htm> For more information, contact: Rae Toscano, Manager +1 732 562 5482; Karen Kleinschmidt, Administrator, +1 732 562 5493; Email: eab-awards@ieee.org.

RECORD NUMBER OF IEEE MILESTONES IN 2004

2004 saw seven Milestones dedications, a record! These came from around the globe, and several more exciting ones are in the pipeline for approval in early 2005. Although not yet nominated a Milestone by the IEEE New York Section, in December 2004 a ceremony was held marking the addition of Philosophy Hall at Columbia University to the U.S. National Historic Landmark Survey, having been nominated by the IEEE History Center as part of a joint project with the U.S. National Park Service. Sections are urged to get involved in local history, particularly through the Milestones Program. More information can be found at http://www.ieee.org/organizations/history_center/milestones_program.html.

HISTORICAL PUBLICATIONS RELEASED

Also in October, the Guglielmo Marconi International Fellowship Foundation at Columbia University held their 30th anniversary banquet in Bologna, Italy, at which they presented a historical book they had commissioned from the IEEE History Center. Around the same time, Eta Kappa Nu celebrated their centennial with another historical work from the Center, this one underwritten by the IEEE Foundation.

ORAL HISTORIES UPDATE

The IEEE History Center continues to collect oral history interviews with important contributors to our fields, from every corner of the world. The Center now manages over 450 interviews, with more than one half available on the Web. They can be viewed at

IEEE EAB/History News-Cont

http://www.ieee.org/organizations/history_center/oral_histories.html. The entire set of History Center pages is searchable from the center's home page, http://www.ieee.org/organizations/history_center/index.html, if, say, one wanted to see if a particular country or region was mentioned. The Center has recently begun work on a project with the IEEE Electromagnetic Compatibility Society to collect more interviews in their field, in preparation for the EMC's 50th anniversary celebration in 2007.

IEEE SETF – INCORPORATING STANDARDS INTO UNDERGRADUATE PROGRAMS

Volunteers from the IEEE Educational Activities Board and Standards Association have come together and formed the IEEE Standards in Education Task Force (SETF). The goal of SETF is to help the electrical and computer engineering undergraduate programs with incorporating standards into the learning process. A grant from the IEEE Foundation was sought and supported for a needs survey and the development of proof of concept learning products during 2004 and 2005. Through the survey, roadblocks to the introduction of standards into the undergraduate learning process were identified, namely: (1) the scarcity of learning supplements to classroom instruction that would impart essential knowledge about standards and (2) the cost of access to appropriate standards. The survey respondents encouraged the creation of web-based tutorials on, case illustrations using, and a reference guide to standards, many of which are currently being developed by the SETF. These web-based learning products will be pilot tested at two academic institutions in 2005 and, after any refinements based upon the pilot testing, the web site will be made available on an open-access basis. More information about this project will be announced in the coming months.

ABOUT IEEE EDUCATIONAL ACTIVITIES

The IEEE Educational Activities Board is responsible for coordinating the educational activities of the IEEE. The volunteer and staff members of IEEE Educational Activities carry out this responsibility by developing educational programs to ensure (1) The technological literacy of pre-college students, (2) the continuous maintenance and improvement of engineering education programs through active participation in accreditation activities, and (3) the development of continuing education products and services that serve the professional development and lifelong learning needs of electro-technology professionals worldwide. For more information, visit <http://www.ieee.org/organizations/eab/> or email education-services@ieee.org.

ABOUT THE IEEE HISTORY CENTER

The IEEE History Center is a staff unit of IEEE that is located not at the IEEE Operations Center, but on the nearby New Brunswick campus of Rutgers, the State University of New Jersey, which cosponsors the Center's activities. The Center's mission to preserve, research, and promote the legacy of IEEE technologies is overseen by the IEEE History Committee, a standing committee of the IEEE Executive Committee. Since most of the activities in carrying out this mission are educational in nature, the Staff Director of the History Center reports to the IEEE Managing Director for Educational Activities, and Center staff work closely with EAD staff on many programs. Those interested in more information are invited to look at the Center's website (http://www.ieee.org/history_center) or to email the Center at history@ieee.org.

Conference for Protective Relay Engineers

CONFERENCE FOR PROTECTIVE RELAY ENGINEERS TEXAS A&M UNIVERSITY College Station, Texas April 5-7, 2005

The Planning Committee of the 58th Annual Conference for Protective Relay Engineers invites you to attend the conference at Texas A&M University on April 5-7, 2005. The Protective Relay Conference provides a forum for engineers to discuss protection technology and related subjects. Both tutorial presentations on fundamental concepts and papers on new technology are included. The program will include the following:

- ◆ New protection equipment descriptions
- ◆ Relay application ideas and new concepts
- ◆ Case Studies and "Horror Stories"

(When the relays worked - and when they didn't!)

Registration Information: Pre-Registration: \$250 (begins January 10, 2005)
After March 7, 2005: \$300

Manufacturers: For hospitality suites, please contact Lydia Godfrey at the College Station Hilton and Conference Center at (979) 694-4903

Special offerings: In conjunction with the 58th Annual Conference for Protective Relay Engineers special pre-conference offerings are available Monday, April 4, including a tutorial, ethics seminar, and manufacturer's presentations. Please see the website for more details.

This conference offers **Continuing Education Credits**

Website: <http://engineering.tamu.edu/prorelay/>
For Registration: Ms. Sharon Loe
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