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Upcoming Events

For latest, see www.ieee-or.org/events

PACE (Professional Activities)

Topic: Successful Career Makeover for Scientists and Engineers in the 21st Century

Speaker: Dr. Trudy Hu, Licensed Psychologist

Date: Tuesday, August 23, 2005

Time: 6:30 PM - 8:00 PM

Doors open 6:00PM

Location: Oregon Graduate Institute(OGI), Wilson Center Main Dining Room

Cost: FREE and open to the public

Registration: See www.ieee-or.org/events for registration, or <http://cpd.ogi.edu/class.asp?n=06-IEEE-0823>

This program is designed to maximize engineers' and scientists' potential, to know yourself and your surrounding better, and then empower yourself and your profession. It will open your eyes, your mind, and energize you. Dr. Trudy's program is fun, entertaining, and informative. You can not afford to miss it.

COMMUNICATION SOCIETY PRESENTS WIRELESS LAN WORKSHOPS

Wireless LAN Analysis (4-day workshop)

Dates: Aug 29th -Sept 1st, 2005

Venue: Kingstad Place for Meetings, Beaverton, Oregon

This workshop offers hands-on learning using the latest enterprise-class wireless LAN analysis hardware and software. This course targets experienced networking professionals who wish to gain critical, detailed skills in wireless networking analysis. These skills include an in-depth understanding of the frame structure of 802.11 frames, frame exchange processes between wireless nodes, analyzing security solutions for both effectiveness and weaknesses, analyzing performance in both pure and mixed-mode environments, and using analyzers for site surveying and intrusion detection. The analysis course is for serious IT professionals with a desire to get to the root cause of any problem or situation in the most expedient manner possible.

For more info and registration go to <http://www.ieee-or.org/events/cwap>

Wireless LAN (4-day workshop)

Dates: Sept 13th -16th, 2005

Venue: Kingstad Place for Meetings, Beaverton, Oregon

This workshop provides the networking professional a complete foundation of knowledge for entering into or advancing in the wireless networking industry. From basic RF theory to link budget math, including topics from troubleshooting to performing a site survey, this course delivers hands on training that will benefit the novice as well as the experienced network professional.

For more info and registration go to <http://www.ieee-or.org/events/cwnp>

Wireless LAN Security (4-day workshop)

Dates: Oct 11th-14th 2005

Venue: Kingstad Place for Meetings, Beaverton, Oregon

This workshop addresses in detail Wireless LAN Intrusion, Security Policy, and Security Solutions. Audience: This course targets experienced networking professionals who wish to gain critical skills in wireless networking security, including how hackers attack networks and the means for preventing them from doing so. With the burgeoning growth of wireless LAN

installations, all IT professionals must become knowledgeable about security - wireless security in particular.

For more info and registration go to <http://www.ieee.org/events/cwsp>

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

PSU ECE Department in Collaboration with IEEE Oregon Signal Processing Chapter present:

**Intensive One-Day Course:
3G, Evolved 3G, 4G, and WiMAX: Wireless Technology Assessment and Integration**

Lecture by Peter Rysavy

Date: Friday, September 16, 2005

Time: 8 AM - 5 PM

Place: Portland State University, exact location TBA

Cost: \$245 Members, \$295 non-members by 9-Sep;
add \$50 after 9-Sep

Registration:

<http://www.ece.pdx.edu/~lvw/shortcourse/3g4g/registration.pdf>

Overview

In this one day course, Peter Rysavy of Rysavy Research provides a fundamental understanding of how different wide-area wireless networks function, their latest and forthcoming advances, their market realities and how best to take advantage of them. Technologies include 3G cellular systems such as EDGE, CDMA2000 (1XRTT, 1XEV-DO, 1XEV-DV), UMTS, HSDPA and emerging technologies such as evolved 3G systems and WiMAX (IEEE 802.16-2004, IEEE 802.16e).

Full Details at:

<http://www.ece.pdx.edu/~lvw/shortcourse/3g4g/index.htm>

More info: call PSU ECE Dept. 503-725-3806

Registration Fees

- Advanced Registration (payment and form received by September 9, 2005) General \$295.00; IEEE Member \$245.00
- Regular Registration (Seats limited, register early - after Sept. 9) General \$345.00; IEEE Member \$295.00

No refund will be made after September 9, 2005

Registration form (PDF) at:

<http://www.ece.pdx.edu/~lvw/shortcourse/3g4g/registration.pdf>

Questions: Email to lvw@ece.pdx.edu

MARKETPLACE

FE Review Courses Offered

Beginning in September, the University of Portland will offer review courses to prepare for the Fundamentals of Engineering Examination. The course details are:

Wednesday Evenings, 6:00 to 9:00 p.m.,

- September 7 to December 7, 2005 for General Topics (Morning Session) I Continuing Education Unit
- January 25 to April 5, 2006 for Discipline Specific Topics (Afternoon Session) I Continuing Education Unit

Subjects of the Review for the General Topics (Morning Session) FE Exam

Chemistry, computers, dynamics, electrical circuits, engineering economics, fluid mechanics, materials science, mathematics, mechanics of materials, statics, and thermodynamics.

Subjects the Review for the Discipline Specific (Afternoon Session) FE Exam

Electrical: Numerical methods/statistics, control systems theory & analysis, electrical circuits, network analysis, analog & solid state electronics, digital systems, computer engineering (hardware and software), communications theory, signal processing, electromagnetic theory, signal processing, power systems.

Tuition: \$200 for General Topics (Morning Session)
\$200 for Discipline Specific Topics
(Afternoon Session)

Please contact Kitty Harmon at 503-943-7180 or harmonk@up.edu for more information or to register for the course.

ELECTRICAL DESIGN ENGINEERS: Coffman Engineers seeks electrical engineers for designing commercial and institutional facilities in our Spokane, Washington, and Encino (LA area), California offices. Successful candidates will possess strong communication skills, a commitment to quality and detail, and the ability to function as a team player. Please see www.coffman.com for more information.

Online Career Forum

IEEE Spectrum will host an online Career Accelerator Forum on 20 September 2005, geared towards mid-level technology and business executives seeking career advancements, a change in career or continuation onto graduate or post-graduate studies. See http://www.spectrum.ieee.org/cef_info

Announcing 5th Annual OctoberBest Regional High-Tech Manufacturing Conference and Expo

Both the Electronics Manufacturing Association (EMA) and the Electronics Representatives Association (ERA) are presenting Oregon's only electronics and manufacturing conference and exposition, which will showcase **local Northwest suppliers, services, and resources.**

Free admission to exhibits if you sign up before October 14 online at http://www.ema-oregon.org/OctBest5_attend.html.

The OctoberBest Expo will be held

- at **Hawthorn Farm Athletic Club** in Hillsboro
- on Wednesday, October 19th
- from Noon until 6:00pm for exhibits
- **technical and educational sessions** from 8:30 AM until 5:45 PM [see below]
- free parking will be available close to event site
- **take the MAX** to the Hawthorn Farm stop by Intel at Elam Young Parkway
- all are encouraged to donate non-perishable food items to The Oregon Food Bank
- featuring our **GOLD Sponsor for 2005 - CascadeTEK**
- featuring our **SILVER Sponsors for 2005 - NW EMC and Prototron Circuits**

In addition to this being the best opportunity to see the latest products, services, and technologies, you can attend **seminars on emerging trends.**

IEEE Oregon is holding four Morning Seminars (Nanotechnology, EMI, Lean Manufacturing, FPGA/Structured ASIC) from 8:30-Noon.

Afternoon seminars cover topics critical in today's manufacturing environment such as: lead-free, lean manufacturing, industry manufacturing standards, supply chain, and testing.

View and sign up for the technical and educational sessions at: http://www.ema-oregon.org/OctBest5_sessions.html.

Note: if you or your company is interested in being an exhibitor, please review the following website: http://www.ema-oregon.org/OctBest5_exhibit.html.

From the Editor's Desk

by Allen G. Taylor

Traditionally, August is a slow news month, and this month is no exception. I have a few items in addition to the stories and announcements in this issue. One thing to consider is Accelerating Change 2005, September 16-18 at Stanford University in Palo Alto. The theme this year is Artificial Intelligence and Intelligence Amplification. This was a great event last year and promises to be even better this year. Some of the leading lights of AI will be speaking. Check it out at <http://www.accelerating.org/ac2005>.

Closer to home is the Web site of the PSU Student Branch of the IEEE. It has been updated and has a fresh new look. <http://www.ece.pdx.edu/~ieeee>.

High speed connections to the Internet were up 34% in 2004 according to a report released by the Federal Communications Commission.

Enjoy your summer. As I sit here composing this issue in my shorts and tropical print shirt, the weather is warm and comfortable. This would be a great time to stop and smell the roses. Even the invasive blackberry bushes smell great, with a bounty of fruit ripening on the thorny branches. Oregon is just about as fine a place as you could ever wish to be.

IEEE Gustav Robert Kirchhoff Award Goes to Oregon Section Member Gabor Temes

Oregon Section Life Fellow Gabor Temes has been presented the Kirchhoff award "For fundamental contributions to analog signal processing techniques." He is a member of the IEEE Circuits and Systems and Solid-State Circuits Societies.

Gabor C. Temes received his undergraduate education at the Technical University and Eotvos University in Budapest, Hungary, from 1948 to 1956, and his Ph.D. in Electrical Engineering from University of Ottawa, Canada in 1961. He received an honorary doctorate from the Technical University of Budapest in 1991.

He held academic positions at the Technical University of Budapest, at Stanford University and at UCLA, and worked in industry at Northern Electric R&D Laboratories (now Bell-Northern Research), as well as at Ampex Corp. He is now Professor in the Department of Electrical and Computer Engineering at Oregon State

University. He has served as Department Head at both UCLA and OSU.

Temes is co-editor and co-author of *Modern Filter Theory and Design* (Wiley, 1973); co-author of *Introduction to Circuit Synthesis and Design* (McGraw-Hill, 1977); co-author of *Analog MOS Integrated Circuits for Signal Processing* (Wiley, 1986); co-editor and co-author of *Oversampling Delta-Sigma Data Converters* (IEEE Press, 1997), as well as a contributor to several other edited volumes. He has published approximately 300 papers in engineering journals and conference proceedings.

A Life Fellow of the IEEE, Temes served as Associate Editor of the *Journal of the Franklin Institute*, Editor of the *IEEE Transactions on Circuit Theory*, and Vice President of the IEEE Circuits and Systems Society (CAS). In 1968 and 1981, he was co-winner of the CAS Darlington Award, and in 1984 winner of the Centennial Medal of the IEEE. He received the Andrew Chi Prize Award of the IEEE Instrumentation and Measurement Society in 1985, the Education Award of the IEEE Circuits and Systems Society in 1987, and the Technical Achievement Award in 1998, and the IEEE Millennium Medal as well as the IEEE CAS Golden Jubilee Medal in 2000.

Temes' recent research has dealt with CMOS analog integrated circuits, as well as data converters and integrated sensor interfaces.

PSU AESS Rocket Launch!

The Portland State University student branch chapter of the IEEE's Aerospace and Electronic Systems Society (AESS) is launching their third generation intelligent sounding rocket from Central Oregon on August 20th.

The PSU AESS is a group of undergraduate and graduate students working with aerospace enthusiasts in local industry to design, build and launch intelligent rockets. The goal of the group is to develop an actively guided vehicle as an educational and research-based aerospace project.

The current vehicle is 11 feet tall, weighs over 100 pounds with its solid fuel motor, and should fly more than 24,000 feet high. Onboard the vehicle is a Linux-powered x86 flight computer complete with GPS, inertial measurement unit, smart battery system, amateur radio TV broadcast, and even an IEEE 802.11b telemetry system.

The vehicle will launch from Brothers, Oregon (roughly 40 miles east of Bend) sometime between noon and 5:00pm, although other amateur rocketry enthusiasts will

be launching throughout the weekend at the same site.



For more information, including the latest schedule and technical details, please see the PSU AESS's web site at <http://psas.pdx.edu/> or contact them at info@psas.pdx.edu.

Education Society Chapter Being Formed

An inaugural meeting of those members interested in forming a Chapter of the IEEE Education Society met June 15th 2005 in Portland

The meeting opened with introductions, with attendees identifying affiliations, and general conversation over the meal, followed by a wide-ranging discussion guided by the agenda questions:

- What activities are needed? Where? How often?
- How do we include OSU/OIT? Committee structure?

Discussion summary:

Each attendee commented on why they belong to the Education Society, and/or what they would want to get out of participation in the Chapter. There is a need for a Newsletter, probably on-line with a link from the on-line BEEEP, etc.

Most of the discussion focused on how to make Chapter meeting presentations available throughout the State. While the majority of the membership is in the Portland area, Klamath Falls and Corvallis memberships include higher proportions of the natural "constituency" of ECE academics*. The conclusions were:

- Most of the presentations will likely take place in Portland, but others will be initiated in the other regional centers
- In either case, the presentations will be transmitted (live?) to other participating sites by internet video and other appropriate media technologies.
- There is an Educational Society Distinguished

Lecturer program, but not yet with financial support.

- Visiting lecturers especially, but also possibly local Oregon speakers, might travel to give live presentations in (for example) Portland, Corvallis, and Klamath Falls.
- Overall, monthly meetings fall through spring would be an ideal target
- Although distance transmission will work for most purposes, there is benefit in “face-to-face” meetings; an annual Workshop was proposed, probably held on a Saturday to accommodate travel needs and different schedules.
- The Educational Society will cover the full cost of the inaugural dinner meeting, leaving the Section’s \$400 commitment intact to support the program to December 31st.

Some suggested program topics identified include:

- What are we all doing?
- Pedagogy (regular presentations on different issues)
- K-12
- Transfer issues
- Labs (especially distance/on-line labs)
- Undergraduate research

The top-ranked topic was there is a sense that we don’t know what our colleagues are doing in the other Oregon institutions, especially in areas of educational innovation. Could this be the first workshop topic?

There was also some discussion of the committee structure to ensure broad regional participation. (See below for the outcome.)

Election of Officers:

Chairperson (Includes EducSoc and Section liaison) Jim Morris

Vice-Chair (Acts as Program Chair) Gary Spivey

Secretary/Treasurer (Includes Newsletter responsibility) Molly Shor

Northern regional representative Mateo Aboy

Central regional representative Terri Fiez (OSU)

Southern regional representative Claude Kansaku

- Committee members will also act as “institutional reps” to provide program liaison and membership recruitment. Others will be identified at institutions not represented on the Committee.
- This committee officially serves until Dec 31st 2005.

Action Items:

- All those attending will determine whether their institutions’ distance learning centers can support the remote program meeting access proposed (transmission and reception,) and if so at what

cost.

- Next meeting should be held mid/late-September, with the first e-mail announcement by the end of August. (Needs (e-mail?) Committee discussion over the summer.)

New IEEE Executive Director Announced

Following an extensive search, Jeffry W. Raynes, CAE, has been selected for the position of IEEE executive director. Raynes, 51, will assume the position by November. He will serve as chief operating officer and will manage the IEEE staff organization, which consists of approximately 900 employees. Additional information is available in the IEEE Newsroom <http://www.ieee.org/portal/pages/newsinfo/raynes.html>

IEEE Student Members Serving Technology Policy Summer Internships at IEEE-USA

Four IEEE student members are serving internships at IEEE-USA this summer. Matt Ezovski, Elizabeth Johnston and Patrick Stokes are participating in the Washington Internships for Students of Engineering (WISE) program, and Patrick Meyer is working with the IEEE-USA Energy Policy Committee.

The WISE program, which the IEEE has participated in for 14 consecutive years, enables outstanding engineering students to learn how engineers influence public policy on complex technological issues. Each of the eight WISE interns is sponsored by an engineering society, and must present a paper on a current and topical engineering-related public policy issue.

The students’ presentations will be at the House Science Committee hearing room in the Rayburn House Office Building (room 2325) on 1 August from 10 a.m. to 3 p.m.

Matt Ezovski, who lives in Slatersville, R.I., is studying electrical engineering and computer and systems engineering at Rensselaer Polytechnic Institute in Troy, N.Y. The rising senior is looking at policy recommendations for deploying biometric passports internationally and domestically.

Elizabeth Johnston, of Fairbanks, Alaska, is majoring in electrical engineering and Russian studies at the University of Alaska. A rising senior, she is working on policy recommendations for hybrid electric vehicles.

Patrick Stokes, of Pflugerville, Texas, is a rising senior majoring in biomedical engineering and economics at the University of Texas. He is interested in privacy and

security foundations for interoperability of a National Health Information Network.

Patrick Meyer is IEEE-USA's first Energy Policy Committee intern. His principal focus is to produce a comprehensive analysis of the Energy Policy Act of 2005 (HR.6.) Electricity Title and determine its relation to IEEE-USA interests. A resident of East Granby, Conn., he has written many articles on electricity reliability and interconnectivity, as well as hydrogen fuel cells and advanced nuclear power. You can find a sampling at <http://www.ieeeusa.org/policy/features/EnergyActof2005Update.asp> and <http://www.todaysengineer.org/2005/Jul/energy.asp>.

Meyer will return to the Rochester (N.Y.) Institute of Technology to complete work on his master's degree in science, technology and public policy.

Dr. Steve Watkins, a professor of electrical and computer engineering at the University of Missouri-Rolla, is the WISE program's Faculty-Member-in-Residence. He spent 2004 serving as an IEEE-USA Congressional Fellow in the office of Rep. Dana Rohrabacher (R-Calif.).

For more information on the WISE program, go to <http://www.wise-intern.org/>. Visit <http://www.ieeeusa.org/volunteers/committees/epc/index.html> for more on the IEEE-USA Energy Policy Committee.

U.S. IT Infrastructure Highly Vulnerable to Attack

The nation's information technology infrastructure, which includes air traffic control systems, power grids, financial systems, and military and intelligence cyber networks, is highly vulnerable to terrorist and criminal attacks, according to an article in the August issue of IEEE-USA Today's Engineer.

"The country's problem with cyber security is very serious, and is going to get worse in the next five years before it gets any better," IEEE-USA Research & Development Policy Committee Chair Cliff Lau told Today's Engineer. "I would say the situation not only is alarming, but is almost out of control."

Author Barton Reppert, who interviewed two members of the President's Information Technology Advisory Committee (PITAC), notes that 100,000 known viruses and worms exist, and that some major end-users are throwing out infected systems rather than trying to fix them. Nevertheless, according to PITAC, there is little federal budgetary support for fundamental research to address the security vulnerabilities of the civilian IT

infrastructure, including defense systems.

To read "United States Facing Cyber Security Crisis, Experts Tell Capitol Hill Briefing, As IEEE-USA Prepares New Position Statement," go to <http://www.todaysengineer.org/2005/Aug/cybersecurity.asp>.

News Items of Note from IEEE

- **IEEE XPLORE Upgrade Provides New Tools for Researchers:** IEEE has released several new research options for its IEEE Xplore online delivery platform.

IEEE Xplore is the online delivery system which powers IEEE online subscriptions for organizations and individuals, including collections like the IEEE/IEE Electronic Library. It contains more than 1,100,000 documents from IEEE journals, magazines, transactions, and conferences, all active IEEE standards, and journals and conference proceedings from Europe's Institution of Electrical Engineers (IEE).

New features available through IEEE Xplore 2.1 include:

- * The metadata of all current book titles from Wiley-IEEE Press and Wiley-IEEE Computer Society Press are now available to all users browsing or searching IEEE Xplore.

- * The display of bibliographic information has been enhanced on various pages throughout the site. The Digital Object Identifier (DOI) and part numbers (identifies periodicals issues and conference proceedings volumes that have multiple parts) are now displayed on all tables of contents, search results, Abstracts, and AbstractPlus pages.

- * Individual IEEE Standards are now available for purchase through links in IEEE Xplore.

- * The regularly updated OPAC (Online Public Access Catalog) list of journal and conference proceedings has been enhanced to include the publication's start and end date in IEEE Xplore, ISBN, and indication of availability in online packages.

For full information on these and other features of IEEE Xplore, visit:

http://ieeexplore.ieee.org/guide/g_oview_notes.jsp

- **2006 IEEE Technical Field Award Recipients Identified**

The IEEE Technical Field Awards were established to provide recognition for outstanding achievements in special fields of electrical and electronics engineering.

The complete list of recipients, the awards they will

receive, and their accompanying citations can be found at <http://www.ieee.org/awards>. Click on the "Awards News" link on the left navigation bar and then click on the first link on the page - "2006 IEEE Technical Field Award Recipients."

- **IEEE-USA Awards Nomination Deadline Extended**

IEEE-USA's Awards and Recognition Committee has extended the nomination deadline for 2005 awards to 31 August 2005. This will allow nominators more time to submit entries to recognize the outstanding contributions of U.S. IEEE members.

IEEE-USA's distinguished awards are presented in recognition of professional, technical and literary contributions to public awareness and understanding of the engineering profession in the United States. Recipients are honored each year at an awards ceremony held during the IEEE-USA Leadership Workshop.

Nomination forms are available at <http://www.ieeeusa.org/volunteers/awards/forms.html>.

For more information, visit the IEEE-USA Awards and Recognition Web page at <http://www.ieeeusa.org/volunteers/committees/awards/>.

News from IEEE-USA

1. August 2005 IEEE-USA TODAY'S ENGINEER Webzine Covers "Cybersecurity Forum: A Crisis of Prioritization"; "Transitioning from School to Work"; "What Should Engineering Students Be Learning About Intellectual Property?"

Also catch a feature on "Hidden Job Markets: Strategies That Maximize Job Search Success"; "Backscatter: About That MBA"; a feature on "The Tech Dream Deferred"; a "WorldBytes" column on "Self-Sabotaging Behavior"; and articles from the Hill on "House Committee on Science Holds Joint Hearing on the Status and Future of the Hydrogen Economy" and " House and Senate Agree: IEEE Interconnection Standard Facilitates Electric Power Reliability."

Read the August 2005 edition of IEEE-USA TODAY'S ENGINEER online at <http://www.todaysengineer.org>.

2. IEEE-USA President Challenges Fellow Members to Promote U.S. Membership

In his latest column on the IEEE-USA Homepage,

IEEE-USA President Gerard A. Alphonse calls on U.S. IEEE members to help increase membership. Alphonse said that the IEEE's U.S. membership is "IEEE-USA's lifeblood," the purpose and reason for its existence, and the primary source of support for IEEE-USA programs, products and services.

To read more of the President's message, go to <http://www.ieeeusa.org/communications/presidentscolumn/Alphonse/alphonsejul-aug05.html>.

3. IEEE-USA Advocates Protection of Personally Identifiable Health Information, Development of Technology-Based National Health Information Network

IEEE-USA is concerned that the Department of Homeland Security's (DHS) authority to access and analyze personal information could lead to privacy breaches of one's personally identifiable health information. "We believe DHS authority to access and disseminate personally identifiable health data should be restricted unless adequate controls are put in place to ensure the security and confidentiality of that data," according to a position adopted 17 June by the IEEE-USA Board of Directors. In a related position, IEEE-USA advocates establishing a National Health Information Network to take advantage of cutting-edge networking technologies, as well as provide secure and reliable access to, and sharing of, health information.

For more, read the news release at <http://www.ieeeusa.org/communications/releases/2005/071805pr.asp>.

4. IEEE-USA Employment Navigator Offers Members Better Tools, Resources, Opportunities

IEEE-USA's new Employment Navigator provides tools for members to connect quickly to hiring employers, to build and send effective resumes, and to link to salary benchmarking and other career resources. View five million job leads from 160,000 sources, including hard-to-find opportunities that never leave an employer's Web site.

To access the IEEE-USA Employment Navigator, go to <http://www.ieeeusa.org/careers/employmentnavigator/default.asp>.

5. IEEE-USA Offers U.S. Members Improved Tool to Communicate with Congress

IEEE-USA's improved Legislative Action Center will help the IEEE's U.S. members communicate with their elected officials. The tool gives U.S. IEEE members a private channel to their federal and state legislators.

To access the IEEE-USA Legislative Action Center, go to <https://www.capitolconnect.com/ieee>.

6. IEEE-USA Helps to Shape Monthly Technology TV News Spots

In collaboration with the American Institute of Physics (AIP), IEEE-USA is helping to shape television news spots about IEEE technologies that are being distributed to the top 108 U.S. television markets. AIP's "Discoveries and Breakthroughs" news service, which each month delivers twelve 90-second broadcasts to subscribing stations in English and up to three in Spanish, has the potential to reach more than 80 million households.

For sample "Discoveries" video spots, go to <http://www.ivanhoe.com/science/>.

For the latest news stories written about IEEE-USA, visit <http://www.ieeeusa.org/communications/inthenews.asp>

Call for Papers: International Conference on Testbeds & Research Infrastructures for the Development of Networks and Communities (TRIDENTCOM 2006)

1-3 March 2006 / Barcelona, Spain /

TridentCom 2006, sponsored by the IEEE Communications Society in partnership with Create-Net, Inc., is a major annual international conference focused on experimental activities on high-performance telecommunication network infrastructures that creates an important forum where industry and academic researchers, developers, vendors, service managers and providers can exchange ideas on past experience, requirements, needs and creative visionary solutions for the establishment of such infrastructures; particularly in the areas of testing, verification and deployment based on a business model that optimizes the operational price/performance ratio.

Featured topical programming includes the following subject areas:

- Social Impacts of Infrastructures and Real-Life Applications
- Business Models for Infrastructure Budgeting & Planning
- Infrastructure Renting & Pricing Policies
- Vendor and Provider Partnerships
- Next Generation Internet Testbeds
- Next Generation Wireless & Optical Network Testbeds

- Ubiquitous Network Testbeds
- Wireless Sensor Testbeds
- Testbed Operation & Management for User & Research Communities
- Testbed Cooperation & Integration
- Innovative Measurements, Methodologies & Tools
- Traffic Measurement Testbeds
- Software Tools to Support Distributed Testbeds / Virtual Laboratories
- Management of Massive Databases of Experimental Data
- Knowledge & Technology Transfer Procedures
- Security (AAA) Testing on Open Testbeds

Full technical paper submission deadline: 31 Aug 05
Demonstration proposal submission deadline: 30 September 2005

Best Testbed Award: To be presented the research infrastructure that will best implement the open infrastructure model representing the greatest service to the public, and the most sustainable business model to the infrastructure managers.

For more TridentCom 2006 details & updates, visit: <http://www.tridentcom.org>

IEEE WCNC: Important Call for Participation

Sponsored by the IEEE Communications Society, **IEEE WCNC 2006** continues as the premier wireless event for industry research and design professionals interested to stay at the forefront of development and deployment of wireless technologies. WCNC program attributes include the best tutorial, research and industry-oriented technical content on terrestrial wireless communication in all its forms; including the entire spectrum of technologies from Physical layer issues to Networking issues and Services and Applications.

IEEE WCNC 2006 seeks original contributions of papers encompassing 3G/B3G systems, WMAN, WLAN, WPAN, WBAN, broadband satellite systems, broadband fixed wireless systems, ad hoc and sensor networks. Tutorial and Technology / Business Applications Panel proposals are also sought.

Submission deadline: 1 September 2005

For further details and/or a complete listing of topical tracks and submission instructions, please visit: www.ieee-wcnc.org

To contact us, see www.ieee-or.org/contact_us.