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IEEE WESCON 2004

September 21-23 • Anaheim, California

This year WESCON is collocated with NANOWorld/2004 and the AFEI Enterprise Integration Expo. The IEEE Los Angeles and San Francisco Bay Area Councils, and Region 6 are working to revitalize this traditional event. Visit www.wescon.com for program and exhibit information, and registration. Free registration provides access to the exhibit floor and some programs. Paid registration covers select programs.

Region 6 events on Wednesday, September 22, include:

- Student Paper Contest • Awards Luncheon
- Micromouse Contest
- Candidate's Forum for IEEE President-Elects, IEEE-USA President-Elects, and Region 6 Director-Elects.

A Keynote Space Science presentation will be made at the Region 6 Awards Luncheon by Peter C. Theisinger, Manager of the Mars Science Laboratory Project, at NASA's Jet Propulsion Laboratory. Tickets for the luncheon are \$37.50.

The parallel NANOWorld/2004 Conference focuses on 3 tracks, over 3 days:

- Nanomaterials and nanofabrication
- Nanocomponents
- Systems integration, use and application

Nanotechnology is rapidly advancing and involves many disciplines. Pre-registration savings are available prior to August 20.

MTT/ED Meeting

When: Thursday, September 30, 6:00 PM

Speaker: Doug Rytting, Rytting Consulting

Topic: *Calibration and Error Correction Techniques for Network Analysis*

Where: Oregon Graduate Institute, Wilson Clark Center Dining Hall, Hillsboro, OR

Abstract: The accuracy of Vector-Network-Analyzer (VNA) measurements depends critically on calibration and error correction techniques. This talk will cover the evolution of conventional VNA calibration methods from the start of network analysis through the development of new calibration methods for waveform and large-signal analysis. Included will be the original SOLT (Short-Open-Load-Through) methods, the newer self-calibration techniques like TRL, LRL and Unknown-Thru, and the strengths and weaknesses of these various VNA calibration approaches. The talk will conclude with a discussion of new state-of-the-art extensions of the traditional VNA calibration strategy for calibrated waveform measurements at microwave frequencies capable of capturing the both the temporal and large-signal behavior of microwave and digital devices.

Doug Rytting Graduated with a BSEE from Utah State University and MSEE from Stanford University. He joined HP in June 1966 and worked on virtually all microwave network analyzers introduced since 1966. He was a

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Meeting Announcement IEEE International Symposium on Electrical Insulation

19 - 22 Sept. Indiana Convention Center, Indianapolis, Indiana USA. Co-located with EME (Electrical Manufacturing Expo).

Web: <http://www.deis.nrc.ca/isei2004.htm>

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 for the FE Review are:

Wednesday Evenings, 6:00 to 9:00 p.m., September 8 to Dec. 8, 2004 for General Topics (Morning Session) 1 Continuing Education Unit and January 19 to March 30, 2005 for Discipline Specific Topics (Afternoon Session) 1 Continuing Education Unit

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

\$200 for Discipline Specific Topics (Afternoon Session)

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.

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.

Registration:

FE: Until September 16, 2004 for General Topics

Until January 27, 2005 for Discipline Specific Topics

8:30 a.m. to 4:30 p.m.

School of Engineering Office, University of Portland
5000 N Willamette Blvd., Portland, OR 97203-5798

For more information, or to register by phone/mail please call Kitty Harmon at 943-7180 or email harmonk@up.edu.

New Courses offered by Computer Society

The IEEE Computer Society is pleased announce that many new courses are now available in the distance learning campus.

You now have free online access to 350 course modules in more than 40 subjects including Java, Cisco, Sun, Oracle 9i, XML, CompTIA, Microsoft .NET, and more. Take advantage today at: <http://www.computer.org/DistanceLearning>

NEW MANAGEMENT COURSES

You may also get online access to a special collection of 26 management and business strategy courses. These courses are from renowned sources such as the American Management Association (AMA) and Peter Drucker. Courses include:

AMA - *Negotiate to Win*

AMA - *Managing Employee Conflict*

Peter Drucker - *Permanent Cost Control*

Peter Drucker - *Effective Decision Making*

The Conference Board - *How to Build High-Performance Teams*

SPECIAL OFFER

Access to all 26 management courses is available to IEEE Computer Society members for only US\$99.

Communications Society presents

Wireless LAN Security

(4-day workshop)

Date: Sept. 14th-17th 2004

Venue: Kingstad Place for Meetings, Beaverton, Oregon

This 4-day workshop addresses in detail Wireless LAN Intrusion, Security Policy, and Security Solutions. Students who complete the course will acquire the necessary skills for implementing and managing wireless security in the enterprise by creating layer2 and layer3 hardware and software solutions. All attendees receive hands-on experience configuring, testing, and implementing a broad variety of layer2 and layer3 wireless security solutions. Students will gain a first-hand understanding of the tactics and tools that malicious intruders use to gain access to improperly secured or unsecured wireless LANs.

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-or.org/events/cwsp>

Science, Technology and Society 2004-2005 Resident Scholar Program

Emergence and Design

Oregon's Science, Technology and Society Lecture Series launches its Fifteenth season at the Arlene Schnitzer Concert Hall on **Friday, October 15th, 2004**. The series explores the latest discoveries dramatically altering our understanding of the universe and ourselves. Season tickets for the lectures are available through TicketMaster. A reception in the lobby of the Schnitzer, for all ticket-holders, begins at 6:00 p.m. Presentations at 7:00 p.m.

First in the series is *"The Fabric of the Cosmos"* by Dr. Brian Greene of Columbia University, on Friday, October 15th.

Brian Greene received his undergraduate degree from Harvard University and his doctorate from Oxford University, where he was a Rhodes Scholar. He joined the physics faculty of Cornell University in 1990, was appointed to a full professorship in 1995, and in 1996 joined Columbia University where he is professor of physics and mathematics. He has lectured at both a general and technical level in more than twenty-five countries and is widely regarded for a number of ground-

breaking discoveries in superstring theory. He lives in Andes, New York, and New York City.

Best-selling author Greene says, "Space and time form the very fabric of the cosmos. Yet they remain among the most mysterious of concepts. Is space an entity? Why does time have a direction? Could the universe exist without space and time? Can we travel to the past?"

Brian Greene's lectures are "insightful and inspiring, and even offer a kind of enlightenment." His best-selling book, *The Elegant Universe*, recounts how the theories of general relativity and quantum mechanics transformed our understanding of the universe.

Greene's communication skills come naturally. The son of a voice coach and former vaudeville performer, Greene was a prodigy who at age five could multiply 30 digit numbers by other 30 digit numbers. An occasional actor in community theater productions, Greene also "punches up" scientific dialogue for John Lithgow on *Third Rock from the Sun*. "I consider lecturing," he says, "a form of performance."

IEEE SECON 2004

First Annual IEEE Communications Society Conference on Sensor and Ad Hoc Communications and Networks

4-7 October 2004

SECON 2004 will be held in the Santa Clara Marriott, Santa Clara, CA, USA

On - Line Registration opens 9 August 2004

SECON 2004 Group Rates: Room Rate \$149 single/double - \$20 Add'l Person Hotel Rate Offered 29 Sept - 11 Oct 2004

Registration and Hotel Reservations can be made through the SECON Web site at www.ieee-secon.org

CALL FOR POSTERS - The First IEEE International Conference on Sensor and Ad Hoc Communications and Networks (SECON) is dedicated to fostering collaboration between industry and academia, participation of researchers/developers from industry and posters reporting joint work between industry and academia are especially encouraged.

SECON 2004 Poster Sessions will provide a forum for presenting and discussing recent results, ongoing work, challenges, future directions, and novel approaches in the field of sensor and ad hoc communications and networks.

The deadline for submission is August 18, 2004 (23:59 PDT). Acceptance notifications will be sent by August 27, 2004. In order for the poster to be included in the conference, at least one of the presenters must register for the conference by September 6, 2004.

For complete submittal instructions go the POSTERS page on the SECON 2004 web site at www.ieee-secon.org