



EMBS Guest Speaker and Officers—(left to right) Debi Siering, vice chair, future IEEE member Terra-Sophia Otto; Paul Otto, secretary; Vicky Ikonomidou, guest speaker; Fari Schlake, chair; and Jeff Poston, treasurer.

EMBS Lecture Looks at Brain Tissue Imaging

By Debi Siering

The Engineering in Medicine and Biology Society (EMBS) held its third presentation this year on May 15. The topic of the presentation was "Applying Tissue Specific Imaging to Brain Imaging in Multiple Sclerosis," or how a Magnetic Resonance Imaging (MRI) tool can be used to perform research on the brain.

The speaker, Dr. Vicky Ikonomidou from the National Institutes of Health (NIH), National Institute of Neurological Disorders and Stroke, Neuroimmunology Branch presented research on the application of MRI in generating images of the brain with Multiple Sclerosis (MS) and the study against healthy brains.

Dr. Ikonomidou provided a brief explanation of how the MRI works then proceeded to elaborate on the Tissue Specific Imaging (TSI) technique that she applied.

When an individual with MS is scanned using the TSI technique, three images are produced, which show white matter, gray matter and cerebrospinal fluid. By combining the information from the three images, TSI offers a new way to characterize lesions, visualize fluid accumulation, and better depict normal white matter, which is important when trying to associate MS changes with specific underlying

pathology. The technique is sensitive to early tissue differentiation, but at the same time is able to distinguish more advanced tissue damage, thus combining sensitivity and specificity in tissue characterization.

Dr. Ikonomidou believes that this novel imaging technique is a promising tool in characterizing tissue pathology in MS. For more information

See **EMBS LECTURE**, p. 6



Washington ComSoc Guest Speaker and Officers—(left to right) Doug Holly, secretary; Debi Siering, treasurer; Dave Royle, speaker; and Roger Hardwicke, chair.

EMBS, NVTC Discuss Teaming Opportunities

By Paul Otto

This year the president of the Engineering in Medicine and Biology Society (EMBS), Donna Hudson, challenged the local chapters to "focus on segments of our membership that we may not be fully serving through our current activities" with a spotlight on industrial members who make up 40 percent of our membership but may not be aware of local chapter activities.

The Washington and Northern Virginia Chapter of EMBS is working to meet the challenge by building a relationship with the Northern Virginia Technology Council's (NVTC)

BioMedTech Committee. NVTC has more than 1,100 member companies and two of their BioMedTech Committee's goals are to create forums where the BioTech Community can gather, and to sponsor unique and highly useful programs that showcase the area's resources.

Because of these shared goals, chapter President Fari Schlake and I met with NVTC in April and gave a presentation about EMBS, then discussed teaming opportunities. As a result, we will be cooperating with NVTC and will be assisting in hosting their big-

See **EMBS, NVTC**, p. 6

Washington ComSoc Spring Lecture Series Concludes with WiMax Program at JDSU

By Debi Siering and Tim Weil

The Washington Chapter of the Communications Society (ComSoc) held its third presentation of the year on May 17 at JDSU in Germantown, Md. Dave Royle, a principal hardware engineer with JDSU's Communication Test Group, spoke about World Wide Interoperability by Microwave Access (WiMax). Royle discussed how WiMax works, how it competes with other wireless technologies, lessons learned, and what makes WiMax so desirable.

WiMax is an emerging wireless technology that promises to compete for delivery of last-mile broadband access at low cost. Over 30 attend-

ees at the ComSoc chapter program learned about the technology behind the emerging 802.16 standard and how WiMax is overcoming traditional issues associated with transporting high bit rate in multipath rich environments. The talk also included an under-the-hood look at orthogonal frequency division multiplexing.

WiMax today is in direct competition with last mile access solutions including DSL, cable, data over power lines, and fiber. What makes WiMax technology desirable is that it provides high speed, long range capability at lower cost. The components used in WiMax technology are the key to lowering cost for broadband delivery. Just a few years ago it was necessary to use pricy components such as Gallium Arsenide (GaAs) to obtain high frequencies needed to generate WiMax signals. Advancements in CMOS now permit lower cost parts to operate in the 2.4-5GHz range.

With Covad Corp. recently acquiring NextWeb, the push is on WiMax to increase the quality of service so that they will also be competitive in the voice video and Internet markets. This drives the market from 50,000 users to an easy potential of 25 million.

Royle's talk demonstrated that the future of WiMax is promising and the timing is right for WiMax to become a major technology for last mile and wireless communications.

A new chapter of the Robotics and Automation Society has been formed. See p. 2 for contact information.

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The editor reserves the right to set policies and procedures necessary to provide members with a newsletter that is informative and timely. Deadlines must be strictly observed to keep the publication on schedule. If you are planning an event and have insufficient information by the deadline, please contact the managing editor. The deadline for the upcoming issue will always be published on this page.

September-October issue deadline: August 1, 2007

IEEE National Capital Area Scanner is published bimonthly by The Institute of Electrical and Electronics Engineers, Inc. Corporate Office: 3 Park Avenue, 17th Floor, New York, NY 10016-5997. It is sent automatically at a cost of \$1.00 per member per year (included in annual dues) to each member of the Washington and Northern Virginia Sections. Periodicals postage paid at New York, NY, and at additional mailing offices.

Postmaster: Send address changes to IEEE National Capital Area Scanner, 445 Hoes Lane, P.O. Box 1331, Piscataway, NJ 08855-1331. (ISSN 0894-0452)

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calendar of events

Wednesday, July 11, 2007

Preparing for the CISSP Exam

- Sponsor:** Graduates of the Last Decade (GOLD)
Speaker: Dr. Van Le
Time: Presentation at 6:00 pm, light refreshments following the talk at 7:00 pm
Place: Oracle Building, 1910 Oracle Way, Reston, VA
Directions: From the Dulles Toll Road, take the exit for Reston Parkway North. Take the first right onto Sunset Hills Rd. Take the next right onto Oracle Way.
More Info: Dr. Le will present a first-hand account of what it takes to prepare for the CISSP (Certified Information Systems Security Professional) exam.
Cost: Free for IEEE members or non-members. Invite your friends!
Contact: **IMPORTANT:** We must provide a list of attendees ahead of time to Oracle. To attend, you must RSVP no later than Sunday, July 8 to Chuck Baldi at cbaldi@ieee.org or Van Le at vanble@ieee.org. Bring a photo ID.

Wednesday, July 11, 2007

Northern Virginia Section Administrative Committee Meeting

- Time:** 6:30 pm
Place: Olive Garden Restaurant, 12980 Fair Lakes Shopping Center, Fairfax, VA
Directions: Take I-66 to Fairfax County Pkwy, Route 7100 (Exit 55B towards Reston-Herndon). Turn left onto Fair Lakes Pkwy. Turn left at Fair Lakes Shopping Center, and left again to stay on Fair Lakes Shopping Center to the Olive Garden.
More Info: All interested IEEE members are invited to attend.
Contact: Debra Meale at 703-492-0047 or nca-admin@ieee.org. Please include the term IEEE in your subject line.

Saturday, July 21, 2007

Annual IEEE Northern Virginia Section Picnic

- Sponsors:** Northern Virginia Section, Graduates of the Last Decade (GOLD), Women in Engineering
Place: Lake Fairfax Park, Reston, VA
Time: 12:00 noon to 4:00 pm
Directions: From the Beltway, take exit 47A (Route 7, Leesburg Pike) to Baron Cameron Avenue. Turn left on Baron Cameron Avenue and take the second left onto Lake Fairfax Drive. Follow the signs to the picnic. See www.co.fairfax.va.us/parks/maps/lakefairfaxmap.htm.
More Info: All section members (including student members) and their guests (including children) are invited. There is no charge. Hot dogs, hamburgers, and vegetarian burgers will be grilled, and cold sodas will be provided. Optionally,

a food item, such as a dessert or side dish, would be appreciated, or bring along an outdoor game.
Please no alcohol.

- Contact:** In order that we may plan appropriately, please RSVP to Chuck Baldi at cbaldi@ieee.org or Laura Black at astarte@ieee.org no later than Wednesday, July 11. Let us know how many will be attending, and whether you will be bringing a dessert or side dish to supplement.

Thursday, July 26, 2007

◆ Bioinformatics Research on Cyclosporin Exposure Detection

- Sponsor:** Engineering in Medicine and Biology Society
Cosponsors: TBA
Speaker: Olivia Peters
Time: 7:00 to 8:00 pm
Place: Mitre Corporation, Building 2, Conference Room 1N100, 7515 Colshire Drive, McLean, VA
Directions: See www.mitre.org/about/locations/mitre2_map.html.
More Info: See Diamond story below. Light refreshments will be served.
Contact: Please RSVP by Wednesday, July 25 to Paul Otto at potto@ieee.org.

Tuesday, August 7, 2007

Washington Section Administrative Committee Meeting

- Time:** Dinner at 6:00 pm; meeting at 6:30 pm
Place: Bethesda Marriott, 6711 Democracy Blvd., Bethesda, MD
Directions: From Silver Spring, take I-495 West to Exit 36 North (Rt. 187), turn right onto Old Georgetown Rd., then left onto Democracy Blvd. and look for the Marriott on the right.
 From Rockville, take I-270, follow the signs for Northern Virginia at the divide, then take Exit 1 (Democracy Blvd.), turn left onto Democracy Blvd, and look for the Marriott on the left (make a U-turn at Fernwood Rd.). From Northern Virginia, take I-495 to I-270, then take Exit 1 (Democracy Blvd. East), and proceed as above. Validated parking.
More Info: All interested IEEE members are welcome.
Contact: Debra Meale at 703-492-0047 or nca-admin@ieee.org. Please include the term IEEE in your subject line.

Saturday, August 18, 2007

Picnic, Barbeque and Rock Music Festival

- Sponsors:** National Capital Area Consultants' Network, Washington Section
Time: 3:00-8:00 p.m.
Place: Lake Fairfax Park, Reston, VA

Directions: From the Beltway, take exit 47A (Route 7, Leesburg Pike) to Baron Cameron Avenue. Turn left on Baron Cameron Avenue and take the second left onto Lake Fairfax Drive. Follow the signs to the picnic. See www.co.fairfax.va.us/parks/maps/lakefairfaxmap.htm.

More Info: IEEE will furnish drinks, ice, hot dogs, chips, charcoal, plates, napkins, and other stuff that is important for picnics. You should bring secret barbeque recipes, side dishes, desserts, games, spouses, kids, and significant others. *Please leave alcohol and pets at home.* If you are an August baby (like those of us who plan these picnics), please bring a cake, and we will help you celebrate. For sultry August weather, we recommend a nice pecan pound cake without gooey frosting.

Cost: Free for IEEE members, student members, and guests.

Contact: RSVP to Wally Lee at w.h.lee@ieee.org with the subject line "IEEE CN Picnic RSVP." In the event the picnic is postponed due to bad weather, you will be contacted with a rain date.

Also in August: the Nuclear and Plasma Sciences Society will tour a solar house under construction at the University of Maryland. See story, p. 6, and watch the eScanner for updates at www.ieee.org/escanner.

diamond story

Thursday, July 26, 2007

◆ Bioinformatics Research on Cyclosporin Exposure Detection

This presentation will summarize work done to identify genetic biomarkers for cyclosporin exposure detection. Several of the most popular biomarker identification approaches will be compared, including fold change analysis, principal component analysis, local maximum clustering, and gene correlation. Each of the approaches utilizes a distinct classifier based either on Mahalanobis distance, Naive Bayesian maximum likelihood methods, or neural networks. While the analysis focuses on differentiation between the exposed and the unexposed samples, the approach proposed is expandable to a more general classification scheme, capable of differentiating between the low, the medium and the high level exposure groups.

With a background in both engineering and the life sciences, **Olivia Peters** has maintained an interest in biotechnology and computational biology throughout her career. Her research interests have included the application of biologically-inspired signal processing techniques to the design of communications devices, novel algorithms for the analysis of microarray data, and computational modeling of intercellular processes. Ms. Peters has a B.S. in electrical engineering from the University of Virginia, 1999, an M.S. in biomedical engineering from the University of Virginia, 2000, and expects to finish her Ph.D. in computational biology at George Mason University in 2007.

Officers, Volunteers, Fellows Honored at Banquet



Dennis Moen (left) receives the Volunteer of the Year award for his distinguished service to the Northern Virginia Section, presented by Michael Cardinale, 2006 Section Chair. In the middle is Chuck Sisung, 2007 Section Chair.



Saj Durrani (left) receives the Dedicated Service to Washington Section award from Haik Biglari, 2006 Section Chair.



Jerry Gibbon (left) receives the Sustaining Service Award for distinguished service to the Washington Section, presented by John Dentler, Region 2 Director.

The Northern Virginia Section hosted the IEEE National Capital Area Annual Awards Banquet on April 28 at the Hyatt Fair Lakes Hotel in Fairfax, Va.

Special guests included Dr. Nim K. Cheung, president of the IEEE Communications Society; John Dentler, Region 2 director; and Bill Walsh, Region 2 director-elect.

Before the banquet started, several students who won IEEE awards at high school science fairs displayed their projects and answered questions.

In his keynote address, Dr. Jeong Kim, president of Alcatel-Lucent's Bell Labs, talked about how innovation gives technology companies a decisive advantage in the marketplace.

Dr. Kim used the concept of a three-dimensional "innovation cube" to illustrate the interaction of three critical factors: process (from artistic to analytical); timing (from existing markets to future markets); and impact (from incremental to revolutionary). The high impact side of the cube is where research leads to new products that revolutionize the marketplace. "Research should have broad measurable impact weighted towards high market value in both the near and long-term," he said.

At Bell Labs, market relevance and degree of innovation are important factors in a technology commercialization process that narrows hundreds of possibilities down to a few "fantastic" ideas to develop for the marketplace, he said.

Dr. Kim's entrepreneurial spirit is backed up by his successes. In 1992, he founded Yurie Systems, a high-tech communications equipment company, and served as chairman and CEO until Lucent Technologies bought the company in 1998. His early career encompassed computer design, satellite systems design and data communications, and included seven years as a nuclear submarine officer in the U.S. Navy. He holds a Ph.D. in reliability engineering from the University of Maryland and is a member of the National Academy of Engineering.

Awards were announced as follows:

Northern Virginia Section Awards

Administrative Award – Charles F. Sisung, Jr., Past Vice Chair

Administrative Award – Barry Tilton, Treasurer for 2006

Administrative Award – Monica Mallini, Secretary for 2006



The Dedicated Service Award is presented to Shyam Bajpai by Haik Biglari, 2006 Washington Section Chair. The award recognizes Bajpai's support of IEEE's Professional Activities Committees for Engineers (PACE) activities.

Volunteer of the Year – Dennis Moen – for his distinguished service to the Northern Virginia Section
Outstanding Chapter Award – Power Engineering Society, with Sirak Belayneh accepting the award
Sustaining Friend of IEEE Northern Virginia Section – Mitre Corp.

Current/Past Chair – Dennis Moen of Communications Society Chapter

Current/Past Chair – Seddik Benhamida of Control Systems Society Chapter

Current/Past Chair – Timothy Settle of Signal Processing Society Chapter

Past Chair – Kerry Hartman of Graduates of Last Decade (GOLD)

Past President of DeVry University Student Branch – Aubrey Humphrey

President of George Mason University Student Chapter – Ahmed Ferozpuri

First Place, Fairfax County Regional Science and Engineering Fair – Ryan Ward for his project, "Pheromone Modification for Dynamic Ant Algorithms"

First Place, Northern Virginia Regional Science and Engineering Fair – Benjamin Giobbi for his project, "The Effect of an Inertial Navigation System on a Boat's Capability of Sustaining its Position in Space"

First Place, Prince William-Manassas Regional Science Fair – Ryan Boone for his project, "Push or Point"

First Place, Loudoun County Regional Science Fair – Adam Matthew Fuhrmann for his project, "Maglev Assisted Rocket Launch Propelled by a Hall Effect Linear Accelerator"

Outstanding Leadership Award – Mike Cardinale for chairing the IEEE Northern Virginia Section for 2006

Washington Section Awards

Administrative Award – Kiki Ikossi, Past Vice Chair

Administrative Award – Richard Benjamin, for his dedicated service as Treasurer of the Washington Section

Administrative Award – Gerard Christman, for his dedicated service as Secretary of the Washington Section

Dedicated Service Award – Shyam Bajpai for supporting the PACE activities

Sustaining Service Award – Howard Needham



The Power Engineering Society is the recipient of the 2006 Outstanding Chapter Award from the Northern Virginia Section. Sirak Belayneh, 2006 Chapter Chair, accepts the award from Michael Cardinale, 2006 Section Chair.



Jeong Kim, president of Alcatel-Lucent's Bell Labs, gives the keynote address at the IEEE National Capital Area Annual Awards Banquet.

- Outstanding Leadership of Communications Society Chapter* – Doug Holly
- Outstanding Leadership of Control Systems Society Chapter* – Michael Gilliom
- Revival of Magnetics Society Chapter* – Zareh Soghomonian
- Dedicated Service to Microwave Theory and Techniques Society Chapter* – Micheal Nueslein
- Sustained Support of Microwave Theory and Techniques Society Chapter* – Roger Kaul
- Outstanding Leadership to Signal Processing Society Chapter* – Min Wu
- Outstanding Services to Women in Engineering* – Frederica Darema
- Chapter Chair of the Year* – Monica Mallini for her outstanding support of the Consultants' Network
- Volunteer of the Year* – Danielle Obucheon
- Dedicated Service to Washington Section* – Saj Durani
- Sustaining Friend of IEEE Washington Section* – Fairchild Controls Corporation, with Scott Selle accepting the award
- President of Capitol College Student Branch* – Joshua Hampton
- President of Catholic University of America Student Branch* – Neil Smith

- President of George Washington University Student Branch* – Joyce Ng
- President of University of Maryland Student Branch* – Eric Germann
- Prince Georges' Area Science Fair* – James Riordon for his project, "Active Ballast for Car and SUV Stability"
- Montgomery County Science Fair* – Hamin Jeon for his project, "Correlation Between Fan's Angle and its RPM and Electricity Generation"
- Outstanding Leadership Award* – Haik Biglari for his distinguished service and leadership as the Chair of the Washington Section for 2006

Joint Awards

- Scanner Editor-in-Chief* – Pete Sypher
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- Northern Virginia Editor* – Kerry Hartman
- Washington Section Editor* – Tim Weil
- Webmaster* – Rex Klopfenstein
- Advertising Manager* – David Booth
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- Antennas and Propagation Society Chapter Chair* – Scott Kordella
- Computer Society Chapter Chair* – Tirumale Ramesh and Shahid Shah
- Electromagnetic Compatibility Society Chapter Chair* – Greg Snyder
- Electron Devices Society Chapter Chair* – Dimitrios Ioannou
- Engineering Management Society Chapter Chair* – Doug Holly
- Geoscience and Remote Sensing Society Chapter Chair* – James Tilton
- Industry Applications Society Chapter Chair* – Monica Mallini
- Information Theory Society Chapter Chair* – Greg Strutt
- Lasers and Electro-optics Society Chapter Chair* – Mary Tobin
- Magnetics Society Chapter Chair* – Can Korman
- Microwave Theory and Techniques Society Chapter Chair* – Joe Qiu
- Nuclear and Plasma Sciences Society Chapter Chair* – Harold Sauberman
- Oceanic Engineering Society Chapter Chair* – James Barbera
- Power Engineering Society Chapter Chair* – Sirak Belayneh
- Society on Social Implications of Technology Chapter Chair* – Murty Polavarapu

- Vehicular Technology Society Chapter and Land Transportation Committee Chair* – Karl Berger
- Consultants' Network Chair* – Monica Mallini
- Life Members Chair* – Amarjeet Basra
- Six Decades of Selfless Services to the Ideals and Principles of IEEE* – John Margosian
- Friend of IEEE* – Alcatel-Lucent, with Karl Rauscher accepting the award

Special Awards

- Sustaining Service Award* – Jerry Gibbon for distinguished service to the Washington Section.
- James F. Strother Meritorious Service Award* – Murty Polavarapu for leadership and dedication to IEEE, Region 2 and the Northern Virginia Section.

Recognition of IEEE Fellows

The 2007 Fellows from the National Capital Area were also recognized at the banquet (see story, May-June Scanner, p. 4).



Monica Mallini (left) receives the Washington Section's Chapter Chair of the Year award for her outstanding support of the National Capital Area Consultant's Network, presented by Haik Biglari, 2006 Section Chair.



The James F. Strother Meritorious Service Award is presented to Murty Polavarapu by John Dentler, Region 2 Director. Polavarapu received the award for his leadership and dedication to IEEE, Region 2 and the Northern Virginia Section.

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NPS Chapter Plans Tour of Solar "LEAF House" at University of Maryland

The Nuclear and Plasma Sciences Society (NPS) is planning a site visit in late August to view the solar home that is currently under construction at the University of Maryland, College Park.

The finished home will be on display at the National Mall in early October during the 2007 Solar Decathlon Competition. This will be the third entry by the UM program. Engineering and architectural students participated in the 2005 and 2006 competitions.

The "LEAF House" theme of the UM team's 2007 entry reflects an interest in the elegant marriage of biological knowledge and cutting-edge technology. The leaf in nature is a perfect machine for converting sunlight into energy. Photovoltaic panels are our closest approximation of this miracle, converting current solar energy into usable electrical energy.

LEAF also stands for "leading everyone to an abundant future," which reinforces the message that solar energy is key to a high quality of life. A look at the current project can be found at <http://solarteam.org>.

The Solar Decathlon is organized by the U.S. Department of Energy's Office of Energy Efficiency and Renewable Energy. The project aims to educate engineers, architects and community leaders in the planning, design and construction of environmentally sound solar homes. A goal of the pro-



Life Members Meeting—Marguerite Verville (far right), assistant director of real estate development and planning for Fairfax County, spoke on leadership style at the Life Members Group on May 30 at the Dolley Madison Library in McLean, Va. Also pictured (left to right) are Bill Spanos, Rajinda Khosla, Ara Sahagian, Jules Sussman, Paul Nelson, Paul Gayet, Amarjeet Basra (Chair), Chuck Sisung (Northern Virginia Section Chair), Bill Aird, Eli Corrigan, Dave Booth and Bob Strauss.

Ms. Verville made the point that effective leadership is far more than applying a textbook model, and there is no substitute for learning from the experiences of others. Her advice: "Nobody knows everything, so people must talk and work together. Get to know people on a more pleasant level." (Photo by Monica Mallini)

gram is to promote the use of solar technology in achieving energy independence.

For further information, please contact Harry Sauberman, P.E. at 240-276-3745 or hsauberman@ieee.org. Please consider this as invitation to join Mr. Sauberman and NPS members for the UM site visit. You will have an opportunity to meet the members of the UM Solar Team and gain valuable insight in solar design and construction.

EMBS, NVTC, from p. 1

gest annual event, the Human Genome Party. At the event, we will have a table for IEEE and introduce EMBS's benefits and activities to industry in a relaxed, fun atmosphere. In addition, we will post NVTC's meetings and activities on our website.

People with experience in NVTC or interest in participating in this teaming opportunity are encouraged to contact me at potto@ieee.org.

EMBS LECTURE, from p. 1

tion, contact Dr. Vicky Ikonomidou at ikonomidou@ieee.org.

The next EMBS event is a talk on Thursday, July 26 on "Bioinformatics Research on Cyclosarin Exposure Detection" (see Calendar, p. 3). We are in constant search of state-of-the-art topics and accomplished presenters. Please contact Paul Otto at potto@ieee.org if you have a topic to share with the biomedical community.

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International Association of Software Architects Plans Regional Conferences

By Cliff Berg

IASA Capital Area Chapter Chair

For the International Association of Software Architects (IASA), 2007 is a pivotal year. The rapidly growing organization plans to hold the first of a recurring series of conferences.

IASA's mission is to define the role of the architect for information technology (IT). Although architects in the building profession have a well-defined job, the same cannot be said for IT and IASA plans to change that.

IASA has been in existence for four years and has 50 chapters worldwide. It has secured strategic partnerships with Microsoft and Pearson Education, and has established a strong presence in the IT communities of many cities (for a list of chapters, see www.iasahome.org).

Most IASA members are IT architects but the organization encompasses other disciplines that are important complements to architecture, including project management, programming, and business. The IASA organization and its conferences are not just for architects: they are for everyone with a stake or interest in IT architecture.

Capital Area Chapter

The Capital Area Chapter has nearly 90 members and holds monthly meetings. Currently, the chapter meets in Northern Virginia, but it plans to start making its meetings accessible via WebEx and to eventually hold meetings in Washington and Maryland.

The Capital Area Chapter can be

contacted at ma-board@iasahome.org and its website is www.iasahome.org/web/capitalarea.

Speakers have addressed topics such as Profiling the Agile Architect (Jeff Nielsen), How Code Quality Supports Architectural Quality (Andy Glover), Enterprise Integration with SOA and ESBs (Odysseas Pentakolos), Software Reliability (Cliff Berg), Making Today's Architecture Model-Driven, Service-Oriented, Enterprise Architecture Buzzwords Work (Ed Seidewitz), EASE: Effective Architecting in Software Environments (Suvajit Gupta), and Content Architectures (Travis Wissink).

IT Architect Regional Conferences

This year there will be three U.S. regional conferences, in San Diego, Washington, D.C. and Atlanta. Each will have a similar format, but the agenda for each will be unique.

Some of the topics to be addressed will include the role of the architect in a software project, the role of the enterprise architect within an organization, the nature of "business architecture," the integration of security architecture with application architecture, information architecture topics, and issues related to certification.

In addition, current technical architecture topics of interest will be covered, such as frameworks for developing and documenting architecture and methods for assessing business value, risk, security, or other business-centric attributes based on architecture.

IASA has issued a call for presentations, and has several prominent keynote speakers lined up including Scott Ambler (author and speaker), Chris Howard (vice president, Burton Group), Steve Craggs (vice president, Integration Consortium), Ralph Whittle (author of *Enterprise Business Architecture*), Brent Jackson (chief architect, Dell Computer), Jim Wilt (author and speaker, featured in the latest *Architect Journal*), Ron Schmelzer (senior analyst, Zap Think), Denise Cook (IBM Rational method architect), and Mark Grand (author and speaker).

IASA plans to bring together many other prominent people in the profession as well as architect practitioners with interesting and compelling case studies and ideas. These conferences are going to be extraordinary interdisciplinary events and will help to establish a foundation for defining what IT architecture needs to be and what it must achieve over the next 10 years.

October in Washington

The conference in Washington, D.C. on Oct. 8-9 will feature some special speakers, including Angela Yochem (vice president of enterprise architecture, Bank of America) talking about what it takes today to be a successful architect and John Kern (author and agilist) talking about Agile Architecture. In addition, partly because of its proximity to the federal government, there will be a strong presence from the FEA camp, including practitioners

such as Yan Zhao (director of enterprise architecture, CGI Federal) talking about the realities of implementing enterprise architecture in SOA and other contexts.

Conference Web Pages

Washington, D.C.: www.iasahome.org/web/capitalarea/itarc2007.

Atlanta: www.iasahome.org/web/atlanta/itarc2007.

San Diego: www.iasahome.org/web/socal/itarc2007.

NRL Promotes IEEE Fellow

Dr. Gerald M. Borsuk is the new associate director of research of the systems directorate at the Naval Research Laboratory. He provides executive direction and leadership to four major NRL research divisions that conduct a multidisciplinary program of scientific research and advanced technological development in the areas of optics, electromagnetic warfare, information technology, and radar.

Dr. Borsuk is a IEEE Fellow and the recipient of three Presidential Rank Senior Executive Awards, the most recent awarded in 2005. He is also the recipient of the IEEE Frederik Philips Award, the IEEE Harry Diamond Memorial Award, the IEEE Millennium Medal, and an IR-100 Award. He holds a Ph.D. in physics from Georgetown University.

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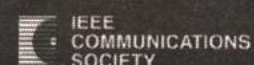
KEYNOTE & PLENARY SPEAKERS	Dr. Jeong Kim President, Bell Labs at Alcatel-Lucent	Mark A. Wegleitner Senior Vice President, Technology & Chief Technology Officer, Verizon Communications	Matt Bross Chief Technology Officer, BT Group
ACCESS '07 EXECUTIVE BUSINESS FORUM (11 sessions) Featuring Fiber Access Systems, Broadband Deployment, IPTV Networks, DSL, Mobile Networks and more.	DESIGN & DEVELOPERS FORUM (9 sessions) Including IMS, WiMax, Mobility Management, SDR / DR Design & Development, Service Oriented Networks, and more.	TUTORIALS & WORKSHOPS (20 Tutorials & 11 Workshops) Focusing on Wireless Meshes, UWB Systems, CDMA Technologies, MIMO, Sensor Networks, Mobile Video, 4G Networks, AutoNet, SUPE, Multi-Sensor Data Fusion, Optical Networking Technologies, and more.	ENTNET 2007, co-located with IEEE GLOBECOM Highlighting the latest developments in voice, video, data, wireless/mobility, and integrated services with tutorials ranging from Network SOA to Enterprising Networking Security and panel sessions.

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GlobeCom is Coming to Town in November

By Wally Lee
Washington Section Editor

This year the IEEE Communications Society will mark the 50th Anniversary of its Global Telecommunications Conference. IEEE GlobeCom 2007 will be held in Washington, so there will be numerous volunteer opportunities for all local members.

GlobeCom will feature a booth or tent showcasing our local sections and chapters. This is a grand opportunity to network at a premiere IEEE conference and show off your chapter's activities to the world. Please contact Wally Lee at w.h.lee@ieee.org or any member of the GlobeCom planning committee if you want to participate in this unprecedented outreach event.

The conference will be held at the Washington Hilton on November 26-30. The theme is "Innovate Educate Accelerate."

Unlike many comparable conferences that are targeted toward the academic community, GlobeCom has much to offer practicing engineers and industry. There will be an Expo and Communications Industry Forum featuring an access executive forum, a design and developers forum, tutorials and workshops. The access forum focuses on "the last mile" access technologies. The design and developers forum features topics of interest to practitioners. Tutorials and workshops will be held on the latest technical and business issues in communications and networking.

Students can find a niche at GlobeCom, too. Virginia Tech will offer its first Mobile Ad Hoc Networking Interoperability and Cooperation (MANIAC) Challenge at GlobeCom on November 25-26. Participants will form a large-scale mobile ad hoc network,

and observers will evaluate node participation strategies. Do you have the winning strategy? MANIAC Challenge invites you to be a node! Prizes will be awarded for technical finesse. In addition, the best oral presentation will be recognized by the IEEE Professional Communication Society. For information on how to participate, visit www.maniacchallenge.org.

GlobeCom has engaged some outstanding speakers for this 50th anniversary conference. The keynote speaker is Dr. Jeong H. Kim, president of Bell Labs at Alcatel-Lucent. Many of you heard him at the National Capital Area Annual Awards Banquet this spring and know him as a polished and inspirational speaker.

GlobeCom is also privileged to have secured Mark Wegleitner, senior vice president and chief technology officer of Verizon Communications, and Matt Bross, chief technology officer of BT Group, to round out its keynote speaker roster. Mr. Wegleitner, a mathematician, electrical engineer and computer scientist by education, has had broad technical and management experience throughout his company, and is a superlative role model for the rising telecommunications professional. Mr. Bross, who is widely regarded as a visionary speaker on global telecommunications, boasts that he has one of the coolest jobs on the planet.

If your company wants to achieve high visibility at a premiere industry event, GlobeCom 2007 offers patronage opportunities to fit all budgets, ranging from branded conference materials to exclusive, customized patron packages. Please contact Tim Weil, GlobeCom 2007 Patronage Chair, at trweil@ieee.org.

John Joseph Renner

A longtime IEEE fellow-grade member, John Joseph Renner, 87, died April 12 of multiple myeloma at his home in Rehoboth Beach, Del. He was a 1941 graduate of MIT, and served in the Army Signal Corps in New Caledonia as a communications officer. He received a Bronze Star for meritorious service with communications task force preparing for invasions of Japanese-held South Pacific islands. He was a founding member of the Association of Old Crows.

After working for Jansky & Bailey and Atlantic Research Corp., Mr. Renner founded Advanced Technology Systems, Inc. in 1969 and served as the chief executive officer until 1989. He contributed papers to IEEE journals and gave presentations, at-

taining fellow grade in 1976.

He had a home in Arlington, but spent most of his time in Rehoboth Beach during the last 12 years of his life. His passion was teaching children the names and facts about wildlife found in the area.

His wife of 43 years, Kathleen Donnelly Renner, died in 1992.

He is survived by five children, John J. Renner II of Alexandria, Va., Mary Beth Kurpiel of Bensenville, Ill., Genie Herwig of Frankford, Del., and Kathleen Mirro and Rosalie Barnes, both of Arlington, Va.; a stepdaughter, Patricia Donnelly of Camden, S.C.; a brother, Dr. William Renner of Baltimore; 15 grandchildren; and 16 great-grandchildren.

Capitol College Student Branch Hosts S-PAC

On March 30, the IEEE Student Branch at Capitol College hosted a Student Professional Awareness Conference (S-PAC).

John Paserba, IEEE Region 2 S-PAC coordinator, gave an excellent presen-

tation, "Managing to Manage Your Career." His important points included being available for opportunities, staying focused and getting away from negative energy around you.

The event had a good turnout of about 20 students. "Everybody gained something from Mr. Paserba's presentation," said Joshua Hampton, president of the student branch.

Paserba works in the power systems division of Mitsubishi Electric Power Products.

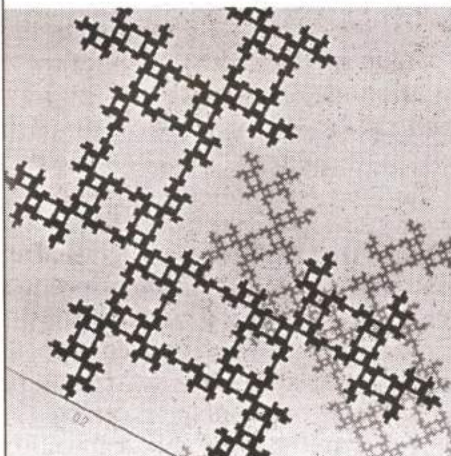
For individuals who want to participate, there are volunteer opportunities to fit all levels of commitment. Please contact GlobeCom 2007 General Chair Jerry Gibbon at j.t.gibbon@ieee.org. Be sure to ask him for a GlobeCom souvenir "squishy" toy, a stress reliever shaped like the U.S. Capitol building.

For more information about GlobeCom 2007, visit the conference website at www.ieee-globecom.org/2007.

See you in November!

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