The IEEE Newsletter

◆IEEE

PUBLICATION OF THE NORTH JERSEY SECTION OF THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS

NJ Section PACE, GOLD, & WIE:

Engineers Meet:
State of IEEE and Proposed Improvements

On Wednesday, August 13, 2008 the North Jersey Section Professional Activities Committee, Graduates of the Last Decade and Women in Engineering will host a meeting to discuss IEEE's present and future. Our guest speaker will be Dr. John Vig, 2008 IEEE President-Elect.

About the Meeting

The talk will consist of two parts:
1) "the state of the IEEE," i.e., a report on how IEEE is doing with respect to membership, conferences, publications, standards, finances, and other activities; what the major threats and opportunities are, and
2) what 2009 President-elect Vig would like to accomplish during his term in 2009. He has a long "to-do" list. However, his term is only one year, and the president's powers are limited. Nevertheless, he will discuss what he wishes to improve in IEEE, and ask the audience's advice about the prioritization of his goals.

Bring your associates, friends and spouses.

About the Speaker

John Vig was born in Hungary and came to the United States in 1957, where he subsequently received the BS degree from the City College of New York and his PhD degree from Rutgers – The New Jersey State University.

He spent his professional career performing and leading R&D activities in Army research laboratories, where he developed high-stability resonators, oscillators, and sensors. He retired from his Army position in 2006, after 36 years of service (as a civilian scientist).

He has been serving as a technical advisor to several DARPA program mangers on programs ranging from micro- and nanoresonators to chip-scale atomic clocks and low-noise oscillators. He is currently working as a technical consultant with System Planning Corporation supporting selected DARPA program activities. He also serves on the Technical Advisory Board of a startup, SiTime Corp.

Dr. Vig is the author of more than 100 publications, including nine book chapters, and he holds 55 patents. He is an IEEE Fellow, and is the recipient of the IEEE Cady Award and the IEEE Sawyer Award. He has been the Distinguished Lecturer of the IEEE Ultrasonics, Ferroelectrics, and Frequency Control (UFFC) Society, and he has served as the president of this Society. Dr. Vig founded the IEEE Sensors Council and has served on the IEEE Board of Directors for three years. In 2005, he was IEEE Vice President for Technical Activities. He is currently serving as the 2008 IEEE President-elect, i.e., he will be IEEE President in 2009.

All Welcome!

Members and students from all professional societies and engineering disciplines are welcome. We now have attendees from IEEE, ASME, NSPE, ASCE and AEA. For information about these groups see:

www.aea.org
www.ieeeusa.org/policy/care/
www.ieeeusa.org
www.programmersguild.org
http://web.njit.edu/~ieeenj/
www.asme.org/sections/northjersey

CARE is the Congressional Advocacy Recruitment Effort. CARE is a voluntary network of IEEE members who are interested in public policy. To help go to www.ieeeusa.org/policy/care/.

Time: 6:30 PM to 9:00 PM, Wednesday, August 13, 2008. Refreshments will be served.
Place: Clifton Memorial Library, 292 Piaget Ave, Clifton, NJ, (973) 772-5500.
Information: Paul Ward, (973) 790-1625, PWard1130@aol.com, Richard F. Tax, (201) 664-6954, rftax@verizon.net.

NJ Consultants' Network:

Patenting 101

On Thursday, September 25, 2008, the IEEE Consultants' Network of Northern NJ (www.technologyontap.org) will feature a presentation titled "Patenting 101." The speaker will be Michael J. Feigin, Esq.

About the Topic

The talk will explore when you should file a patent, how the process works in the U.S. and abroad, and the controversy over where the line should be drawn between an abstract law of nature and a patentable invention.

In the course of the presentation, you will learn about the process of obtaining intellectual property for your invention and meet other inventors who have gone through the process themselves.

About the Speaker

Michael J. Feigin, Esq., is a Patent and Trademark Attorney, licensed in NY and NJ, with significant experience prosecuting patents for companies such as AT&T, Rus-Engineering and Vodaphone. He is a professional member of the United Inventors Association and can be reached at http://PatentLawNY.com or (973) 685-5280.

About the Consultants' Network

Founded in 1992, the IEEE Consultants Network of Northern NJ encourages and promotes the use of independent technical consultants by business and industry.

Time: 7:30 PM, Thursday, September 25, 2008.
Place: Aeroflex/KDI-Integrated Products, 60 S. Jefferson Rd, Whippany, NJ. (Entrance at rear of building).
Information: For directions and up-to-date meeting status, call Robert Walker (973) 728-0344 or visit our website at www.TechnologyOnTap.org. To download a map to KDI, go to: http://www.mcekdi-integrated.com/directions.htm.

AUGUST 2008

NEWSLETTER STAFF

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Deadline for receipt of material is the 1st of the month preceding the month of publication. All communications concerning editorial and business matters, including advertising, should be sent to the Business Manager via e-mail at *k.saracinello@ieee.org* or to *The IEEE Newsletter, c/o Keith Saracinello, 25 Messenger Ln, Ringoes, NJ 08551*, (302) 683-7162.

IEEE NJ SECTION HOME PAGE
http://web.njit.edu/~ieeenj/
IEEE NJ SECTION NEWSLETTER HOME PAGE
http://web.njit.edu/~ieeenj/NEWSLETTER.html

REPORT ADDRESS CHANGES TO:
IEEE Service Center, 445 Hoes Lane, P.O. Box 1331, Piscataway, NJ 08855-1331, (732) 981-0060. It is not necessary to inform the North Jersey Section when you change your mailing address. "The IEEE Newsletter" and other section mailings use a list provided by IEEE's national headquarters.

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The North Jersey Section Executive Committee usually meets the first Wednesday (except holidays and December) of each month at 7:00 PM. Meetings are open to all members. For information on meeting agenda contact Secretary Russell Pepe at (201) 960-6796, rpepe@att.net.

NJ Computer Society and EMS:
Microsoft's SharePoint Technologies

On Tuesday, September 23, 2008, the IEEE North Jersey Section Chapters of the Computer and Engineering Management Societies, and the Information Technology Club of the Stevens Institute of Technology Alumni Association, will host a presentation on "Microsoft's SharePoint Technologies" by Arthur J. Hedge III.

About the Talk
SharePoint is the fastest growing product in Microsoft's history. Come learn what all the fuss is about. SharePoint provides a unique architecture that lets groups collaborate on projects, documents, and numerous other tasks. It also provides enterprise search functionality, enterprise content management tools, forms-driven processes, and a complete application development framework for supporting knowledge workers. We will provide an overview of the SharePoint architectures, demonstrate the core features, and explore some of the creative ways that organizations are using the tools.

About the Speaker
Arthur Hedge is the President of Castle Ventures LLC. Castle Ventures is a consulting firm focused on Information Technology specializing in Security, Collaboration and Business Process Management solutions. Mr. Hedge has over 20 years of consulting experience in the Information Technology field with both privately held and publicly traded firms. Before starting Castle Ventures in 2002, he was the Vice President of Professional Services for Steelpoint Technologies.

Mr. Hedge is a graduate of the Massachusetts Institute of Technology. He lives in New Jersey with his wife and two sons. He is a member of a number of professional organizations, including the IEEE Computer Society and the Association for Information and Imaging Management. He is active in standards work for AIIM. Mr. Hedge serves as a mentor for Columbia University's Technology Management program. He is a board member of the Foundation for Teaching Economics. He is a frequent speaker and writer on technology subjects.

All are welcome!
You do not have to be a member of the IEEE to attend. Bring your friends and network during the free pre-meeting buffet starting at 6:00 PM.

Time: 7:00 PM, Tuesday, September 23, 2008. Pre-meeting buffet starting at 6:00 PM.

Place: Public Meeting Room, Morris County Library, 30 E. Hanover Ave., Whippany, NJ, (973) 285-6930.
Information: Seth Jakel (973) 731 1902, sgjakel@comcast.net or Howard Leach (973) 540-1283, hhleach@aol.com.

NJ EMBS Chapter:
Medical Device Design

On Monday, August 4, 2008 the North Jersey Section Engineering in Medicine and Biology Chapter will meet for a discussion on "Medical Device Design." The speaker will be Dr. Yakov Shkolnikov.

About the Talk
Medical device design is an exercise in optimization with the goal of achieving the device with best effectiveness. This optimization process is constrained by safety, reliability and manufacturability requirements, and failure to satisfy these may limit the success of the product to the insides of an academic laboratory. In this talk, I will describe the origin and the content of these constraints as well as discuss the state of the medical device industry in general.

About the Speaker
Dr. Yakov Shkolnikov is a Senior Scientist in Exponent's Electrical and Semiconductors practice and also holds a research faculty appointment at School of Biomedical Engineering, Science and Health Systems at Drexel University. His expertise is in applied and engineering physics and electrical engineering. He is currently applying this expertise to electronics and instrumentation for medical device applications. His medical devices project experience includes technical analysis of implantable cardioverter defibrillators (ICD), pacemakers, implantable pulse generators (IPGs), blood flow meters, and electrosurgical and robotic equipment, electrostimulation, and electropathology. He has designed algorithms and written software for analysis of radiological imaging data, mechanical testing of implants, and instrumentation of diagnostic systems.

Time: 6:30 PM, Monday, August 4, 2008.
Place: Clifton Memorial Library, Community Room, 292 Piaget Ave, Clifton, NJ, (973) 772-5500.
Information: Dr. Goran Djuknic, (973) 633-3406, gdjuknic@hotmail.com.

IEEE North Jersey Section Activities
August 2008

Aug. 4 – "Medical Device Design" by Dr. Yakov Shkolnikov, NJ EMBS Chapter, 6:30 PM, Clifton Memorial Library, Community Room, 292 Piaget Ave, Clifton, NJ. Dr. Goran Djuknic, (973) 633-3406, gdjuknic@hotmail.com.

Aug. 6 – "NJ Section Meeting", 6:30 PM, "Executive Committee Meeting" - 7:00 PM, ITT, 77 River Rd, Clifton, NJ. Russell Pepe at rpepe@att.net.

Aug. 13 – "Engineers Meet: State of IEEE and Proposed Improvements" with Dr. John Vig, NJ PACE, GOLD, WIE, 6:30 – 9:00 PM, Clifton Memorial Library, 292 Piaget Ave, Clifton, NJ. Paul Ward, (973) 790-1625, PWard1130@aol.com, Richard F. Tax, (201) 664-6954, rftax@verizon.net.

Upcoming Meetings

Sep. 3 – "NJ Section Meeting", 6:30 PM, "Executive Committee Meeting" - 7:00 PM, ITT, 77 River Rd, Clifton, NJ. Russell Pepe at rpepe@att.net.

Sep. 10 – "INS and GPS Technology Trends" by George T. Schmidt, NJ AES Chapter, 7:00 PM, BAE Systems, 164 Totowa Road, Wayne, NJ. Dr. Naresh Chand, (973) 636-7408, naresh.chand@baesystems .com

Sep. 23 – "Microsoft's SharePoint Technologies" by Arthur J. Hedge III, NJ Computer and EMS Chapters, 7:00 PM, Public Meeting Room, Morris County Library, 30 E. Hanover Ave., Whippany, NJ, (973) 285-6930. Seth Jakel (973) 731-1902, (973) 820-1865, sgjakel@comcast.net or Howard Leach (973) 540-1283, h.leach@ieee.org

Sep. 25 – "Patenting 101" by Michael J. Feigin, Esq., NJ Consultants' Network, 7:30 PM, Aeroflex/KDI-Integrated Products, 60 S. Jefferson Rd, Whippany, NJ. Robert Walker (973) 728-0344 or www.TechnologyOnTap.org.

Oct. 2 – "2008 MTT/AP Symposium and Mini-Show" – MTT-S/AP-S Chapter, 9:00 AM - 4:30 PM, Hanover Manor, 16 Eagle Rock Avenue, E. Hanover, NJ. Kirit Dixit (201) 669-7599 (kdixit@ieee.org), Art Greenberg (973) 386-6673 (ahg1@alcatel-lucent.com), Har Dayal (973) 633-4618 (har.dayal@baesystems.com), or George Kannell (973) 386-4170 (gkk@gsinnovations.com).

Oct. 14-Dec. 2 – "Project Management" by Dr. Donald Hsu, North Jersey Section, Tuesday Evenings, 8 sessions, 6:30-9:00 PM, NJ International Bulk Mail Center, 80 County Rd, Jersey City, NJ. Donald Hsu (yanyou@hotmail.com).

Oct. 16 – "Life Grade Luncheon", Hamilton Park Conference Center, Florham Park, NJ. Complete details and registration form will appear in the September Newsletter.

Members and Non-Members Welcome
PLEASE POST

NJ AES Chapter:
INS and GPS Technology Trends

On Wednesday, September 10, 2008, the North Jersey Chapter of the IEEE Aerospace & Electronic Systems Society will sponsor a talk titled "INS and GPS Technology Trends." The speaker will be George T. Schmidt.

About the Talk

This presentation focuses on accuracy and other technology trends for inertial sensors, Global Positioning Systems (GPS), and integrated Inertial Navigation System (INS)/GPS systems, including considerations of interference, that will lead to better than 1-m accuracy navigation systems of the future. For inertial sensors, trend-setting sensor technologies will be described. A vision of the inertial sensor instrument field and inertial systems for the future is given. Planned accuracy improvements for GPS are described. The trend toward deeply integrated INS/GPS is described, and the synergistic benefits are explored. Some examples of the effects of interference are described, and expected technology trends to improve system robustness are presented.

About the Speaker

George T. Schmidt is a distinguished lecturer for the IEEE AES Society, and a Lecturer in Aeronautics and Astronautics Department at MIT. He is also Editor-in-Chief of the American Institute of Aeronautics and Astronautics (AIAA) Journal of Guidance, Control, and Dynamics. In 2007 he retired as the Director of Education at the Charles Stark Draper Laboratory, Cambridge, Massachusetts. Prior to that position he was the Leader of the Guidance and Navigation Division and Director of the Draper Guidance Technology Center. His major technical activities have been in guidance and navigation system design for missiles, aircraft, and manned spacecraft; Kalman filtering applications; and integration techniques for high-resolution synthetic aperture radars, satellite navigation systems, and inertial sensors. He has served the NATO Research and Technology Organization (formerly AGARD) in many positions, including as a U.S. member of the Guidance and Control Panel. He is a Fellow of the AIAA, a Life Fellow of IEEE, and he is an elected member of the Russian Federation, Academy of Navigation and Motion Control. He has received several awards including the AIAA International Cooperation Award in 2001 and the NATO Research and Technology Organization's highest technical award, the von Kármán Medal, in 2005. He is authored or coauthored more than 80 technical papers, reports, encyclopedia articles, and books. He received his S.B. and S.M. degrees in Aeronautics and Astronautics and his Sc.D. in Instrumentation from MIT.

All Welcome!

You do not have to be a member of the IEEE to attend the talks but you need to email your name, address, and citizenship to Dr. Naresh Chand for obtaining security clearance by September 4th. In your email, please use your subject as "IEEE AESS talk". A free buffet dinner, starting at 6:00 PM, will be provided. Come and bring your friends.

Time: 7:00 PM (free buffet starts at 6:00 PM), Wednesday, September 10, 2008.
Place: BAE Systems, 164 Totowa Road, Wayne, NJ 07474.
Information: Dr. Naresh Chand, (973) 636-7408, naresh.chand@baesystems .com.

Part-time programmers --- send e-mail to brucstorms@verizon.net.

Annual Awards Reception for New Fellows and Award Winners of the IEEE North Jersey Section

   The IEEE North Jersey Section Annual Awards Reception was held at the Birchwood Manor, Whippany, NJ, on May 4th, 2008, with 47 attendees. The following IEEE North Jersey members were recognized for their contributions by either Howard Michel, Region I Director, Charles Rubenstein, Region I Director-Elect, Durga Misra, Southern Area Chair, or Kirit Dixit, North Jersey Section Chair.
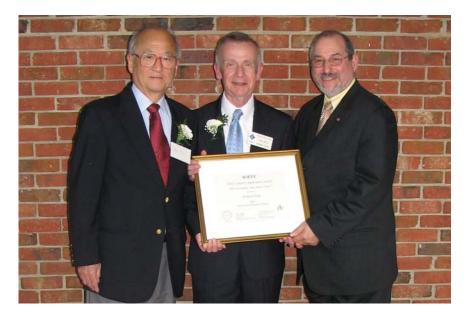
Awardees:
Dr. Ronald Brachman, within Yahoo Research and although he couldn't attend, was recognized for leadership in knowledge representation and reasoning in computer science and artificial intelligence.

Dr. Richard V. Snyder, of Kinnelon, NJ, and President of RS Microwave, Inc., Butler, NJ, was presented with the William Terry Distinguished Lifetime Service Award for a lifetime of sustained, dedicated and wide-ranging service to the IEEE at the Section, Society, and Chapters levels. Shown to his left are daughter Noelle and wife Valerie.

John R. Redmon (left), of West Orange, NJ, was presented with the PES Chapter Outstanding Engineer Award by Ronald Quade, PES Chair, for outstanding leadership and contributions in the design, operation, performance and reliability of electric power systems

Ken Oexle, Chairman, of Whippany, NJ, and Won Kim, Vice Chairman, of Hillside, NJ, of the North Jersey Industrial Applications Society Chapter, were recognized with the Industrial Applications Society Large Chapter Award which comes with a donation of $1,000 to the Section

Dr. Paul A. Polakos was presented with an IEEE Region I Award for outstanding leadership in the field of advanced wireless communications.

Amit Patel, with ITT, Nutley, NJ, was presented with an IEEE Region I Award for outstanding leadership and sustained contributions to the Graduates of the Last Decade (GOLD) activities within Region I and the North Jersey Section.

Russell C. Pepe, Vice President, Advanced Technical Marketing (ATM), Parsippany, NJ, currently serving as the Section Secretary, was presented with an IEEE Region I Award for outstanding service within the MTT/AP Chapter and within the Student Branches.

Richard Tax (center), Chairman, of River Vale, NJ and Paul Ward (left), Vice Chairman, of Totowa, NJ, of the Professional Activities Committee of Engineers, were presented with the Region I Alex Gruenwald Award which comes with a $ 1,000.00 donation to the Section. This is the tenth time since 1987 that the North Jersey Section has been awarded this award. Richard Tax spoke about Alex Gruenwald and why the PACE Award was named for him.

Carl Sulzberger, IEEE Milestone Coordinator and History Editor of the Power Engineering Systems Society Magazine, described the recently approved IEEE Milestone for the Thomas A. Edison, West Orange Laboratories and Factories, 1887. He explained the process he followed in developing this application, showed a full-sized 12" x 18" template of the bronze plaque that will contain the milestone description, and described the planned dedication ceremony. The Thomas A. Edison, West Orange Laboratories and Factories, 1887, milestone plaque, when ordered will contain the following description:

Thomas A. Edison West Orange Laboratories and Factories, 1887

Thomas Alva Edison, a West Orange resident from 1886 until his death in 1931, established his final and most comprehensive laboratory and factory complex about one-half mile (0.8 km) north of here in 1887. Edison's visionary combination in one organization of basic and applied research, development, and manufacturing became the prototype for industrial enterprises worldwide. Work here resulted in more than half of Edison's 1,093 patents.

The above plaque is expected to be dedicated in front of the West Orange Township Municipal Building in October.

IEEE North Jersey Section Course
Project Management

Tuesday Evenings, October 14, 2008 through December 2, 2008
Eight weekly classes (October 14, 21, 28, November 4, 11, 18, 25, December 2, 2008)
USPS, NJ International Bulk Mail Center, 80 County Road,
Jersey City, NJ 07097 (Checks should not be mailed to this address)

IEEE North Jersey Section thanks USPS, NJIBMC for sponsoring this course at its site

The North Jersey Section IEEE is offering an evening course entitled "Project Management". Dice.com lists 5800+ Project related jobs in the New York tri-state area daily! This course will help you to break down a master project into manageable tasks, pinpoint possible solutions, and provide information to keep the project under control. Using Microsoft Project software, you will learn to accomplish various project plans. In addition, it will greatly enhance your business, communications and interpersonal skills.

You will receive the IEEE certificate of completion when you finish the course. You may wish to take two Certification exams, one in *Project Management* administered by Project Management Institute from the knowledge that you learned in this course. (This is *not an exclusive PMP-PMI examination prep course*. No PDUs are issued for PMP eligibility. CEU credits would be given by IEEE)

Instructor: **George Sierchio**, has 16 years of experience in owning and operating technical consulting and training based businesses. He has personally managed over 30 projects and developed/delivered training to over 500 adult students on both business and technical subjects.

TOPICS
1. Explain the need for a project manager in different industries
2. Define SOW, PERT, GANTT, CPM, and Scope of the project
3. Identify the team members, resources and plan for the strategy
4. Calculate schedule, budget variances, and monitor project progress
5. Manage changes, estimates, and communications
6. Employ the use of MS Project 2007, MS Visio 2007 and related software
7. Set a baseline, import tasks from MS Excel, export Project files to MS Word
8. Create and modify custom reports, templates and combination views
9. Approve updates and conclude a project plan
10. Market global E-commerce projects
11. Present final projects from the participants

WHERE: NJ International Bulk Mail Center, Jersey City, NJ. (Checks **should not** be mailed to this address)
WHEN: 8 Tuesdays, October 14, 21, 28, November 4, 11, 18, 25, December 2, 2008, 6:30-9:00 PM.
COST: IEEE (& affiliate) members $450; Non-IEEE members $490.
CONTACT: Donald Hsu: yanyou@hotmail.com

REGISTRATION: Project Management

Please mail the registration form with the check **(Checks payable to "North Jersey Section IEEE") to:**
   Donald Hsu, Chair Education Committee, IEEE North Jersey Section, P. O. Box 2093, Fort Lee, NJ 07024

Name: _____   Email address _____

☐ Non-member

☐ IEEE Member   Member #:_____   Member of _____ technical society

Employer:_____

Employer Address:_____

_____

Home Address:_____

_____

Business (day) telephone #:_____   Home telephone #:_____

Please enclose required fee payable to: **North Jersey Section IEEE**

As soon as a completed registration form and the payment are received, you are officially registered for this course. Registration status will be emailed to you for confirmation.

☐ I wish to receive the IEEE Completion Certificate

☐ Tuition receipt will be issued only if this box is checked   Signature:_____

THE INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS, INC.

IEEE NORTH JERSEY SECTION
MTT-Society and AP-Society Joint Chapter

PRESENT

23rd ANNUAL SYMPOSIUM AND MINI-SHOW

FOCUS: SELECTED TOPICS IN MICROWAVE TECHNOLOGIES FOR COMMERCIAL AND MILITARY APPLICATIONS

Thursday, October 2, 2008
Hanover Manor
16 Eagle Rock Avenue, E. Hanover, NJ 07936 (Phone # 973-992-7425)

SCHEDULE OF EVENTS

9:00 AM TO 4:30 PM

TECHNICAL SESSIONS

10 –12 LECTURES FEATURING SPEAKERS FROM LEADING COMPANIES, WITH EMPHASIS ON MILITARY ELECTRONICS, WIRELESS TECHNOLOGIES AND MICROWAVE COMMUNICATIONS

MINI SHOW FEATURING LATEST PRODUCTS
(APPX. 30-40 EXHIBITORS)

(COMPLIMENTARY LUNCH SERVED)

Details of the schedule, speakers and topics can also be found at the IEEE North Jersey Section Newsletter webpage:

http://web.njit.edu/~ieeenj/NEWSLETTER.html

For further information contact:

Chair/Exhibition: Kirit Dixit (201-669-7599), kdixit@ieee.org
Publicity: Arthur Greenberg (973-386-6673), ahg1@alcatel-lucent.com
Event/ Location Coordinator: Ken Oexle (973-386-1156)
Co-Chair– Technical Program: Har Dayal (973-633-4618), har.dayal@baesystems.com
Co-Chair -Technical Program: George Kannell (973-437-9990), gkk@lgsinnovations.com

THERE IS NO CHARGE TO ATTEND THE SYMPOSIUM OR SHOW

North Jersey Section Seeks Committee Chairs and Volunteers

The North Section is seeking new volunteers to help conduct business for the benefit of its membership. There are a variety of volunteer positions open and available. They range from technical to non-technical, leadership or just participatory. For Society Chapter Chairs, you must be a member of the corresponding IEEE Society.

If you would like to become involved with volunteering in some of these efforts or positions or just become more informed about what is happening at the North Jersey Section, please contact Dr. Chandra Gupta at c.gupta@ieee.org. You are welcome to attend the Section business meeting held the first Wednesday of every month to find out more and other volunteer activities that require some help.

Some committees needing volunteers include the following. Please contact the person indicated for additional information.

- Power Electronics Society Chapter Chair - contact c.gupta below.
- GOLD (Graduates of the Last Decade) Affinity Group Volunteers and Committee members needed - contact northjerseygold@ieee.org
- WIE (Women in Engineering) Affinity Group Volunteers and Committee members needed - contact kduncan@ieee.org

Additionally, if interested volunteers would like to get more general information about the Section, including a complete listing of all chapters and committees, visit the North Jersey Section website http://web.njit.edu/~ieeenj/, or contact Dr. Chandra Gupta at c.gupta@ieee.org.

IEEE Communications Society Launches New Wireless Communication Engineering Technologies Certification Program

New Program Provides Certification in Technical Wireless Expertise

The Institute of Electrical & Electronics Engineers Communications Society (IEEE ComSoc) has launched a new program to certify the practical knowledge and skills of wireless communications professionals.

The IEEE Wireless Communication Engineering Technologies (IEEE WCET) Certification Program has been specifically designed by IEEE ComSoc to address the worldwide wireless industry's growing need for communications professionals with practical problem-solving skills in real-world situations. With this certification, professionals will be able to clearly demonstrate their knowledge of wireless communications technologies to employers or change engineering fields as new opportunities arise in the wireless industry.

To qualify for the IEEE WCET designation, candidates with a bachelor's degree from an accredited institution and at least three years of wireless engineering experience must pass a detailed comprehensive examination developed by more than 100 industry experts and experienced wireless practitioners. Administered on computer for the fee of $500, the first testing period is scheduled for 22 September 2008 – 10 October 2008 at more than 500 testing sites located in 75 countries with the next testing period slated for March 2009. Online applications will be accepted beginning in mid-June.

The exam itself will consist of 150 multiple-choice questions encompassing the wireless areas of RF engineering, propagation and antennas; access technologies; network and service architecture; network management and security; facilities infrastructure; agreements, standards, policies and regulations; and fundamental knowledge.

In the coming months, IEEE ComSoc will also launch a set of resources designed specifically to help participants prepare for the examination. Two separate practice exams consisting of 75 different questions will be computer-based and available via the Internet for a price of $75 for one exam and $125 for both. A Wireless Engineering Body of Knowledge (WEBOK) sourcebook that provides detailed information on all the specialty areas covered by the examination will also be available for purchase.

In addition, a Candidate Handbook for the IEEE WCET certification program containing policies, complete details of the subject areas covered, reference sources, sample questions, application procedures and contact information is currently available free-of-charge through IEEE ComSoc.

For more information on the IEEE Wireless Communication Engineering Technologies Certification Program (IEEE WCET) contact: Jean Niblett, IEEE Communications Society, 3 Park Avenue, New York, NY 10016. Phone: (212) 705-8913.

E-mail: j.niblett@comsoc.org or visit www.ieee-wcet.org.

Call for Fellow Nominations

Nominations are being accepted for the IEEE Fellows class of 2010. The rank of IEEE Fellow is the institute's highest member grade, bestowed on an IEEE Senior Member who has had an extraordinary record of accomplishments in any of the IEEE fields of interest. The deadline for nominations is 1 March 2009.

Senior Members can be nominated in one of four categories: application engineer/practitioner, research engineer/scientist, educator, or technical leader.

The Fellows Web pages contain information regarding the history of the IEEE Fellows program, the nomination process, access to the Fellows Nomination Kit, lists of Fellows who are eligible to be references and more about the Fellow program. Please visit the Fellows website at http://www.ieee.org/fellows.