

The



IEEE Newsletter

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

NJ Consultants' Network:

Using Visual Programming Languages for Data Acquisition and Hardware Interfaces

On Thursday evening, October 24th, IEEE Consultants' Network of Northern NJ will hold its monthly general meeting, featuring a presentation by William Koch of Kochworx, Ltd. and Walter Heger entitled "Using Visual Programming Languages for Data Acquisition and Hardware Programming."

About the Talk

Component designers are often required to provide a demo interface or test harness for the hardware components they design. Using Visual Programming tools, such as Microsoft Visual Basic, a designer can quickly create an interface to visually model or control these components. William Koch will share his experience with Microsoft programming tools and his insights during the presentation. Walter Heger will discuss programming in C++, C#, COM/OLE and Java.

Some of the topics Mr. Koch and Mr. Heger will address include:

- Building hardware interfaces with Visual Basic
- Creating virtual control panels
- Component control over RS-232 and other interfaces
- Future directions for visual development tools

About the Speakers

William Koch of Kochworx, Ltd. (www.kochworx.com) is a Software Engineer with over 15 years of industry experience, catering to Telecommunications, Pharmaceutical, Financial, Banking, Transportation, Consulting, Accounting and Insurance industries. William has been developing solutions for business using Microsoft visual development tools since 1993. William may be contacted at wkoch@kochworx.com.

Walter Heger (<http://wheger.tripod.com/consult.htm>) has over 18 years of Software Development experience working at General Electric Advanced Electrical Systems, Raytheon, and MIT Lincoln Labs. Currently, Walter is implementing algorithms in statistics and Stochastic Differential Equations.

All Welcome!

You do not have to be a member of the IEEE or of the Consultants' Network to attend. Networking after the meeting is encouraged. There is no charge for admission. Bring your friends.

Time: 7:30 PM, Thursday, October 24, 2002.

Place: KDI Triangle, 60 S. Jefferson Rd, Whippany, NJ.

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.kditriangle.com/directions.htm>.

Proposed Slate of Officers for the 2003 IEEE North Jersey Section

Chair:	Dr. Durga Misra
1st Vice-Chair:	Rodney Cole
2nd Vice-Chair:	Har Dayal
Treasurer:	Ted Byrne
Secretary:	Vittal Rebbapragada
Members-at-Large:	Bhanu Chivakula Naz Simonelli Dr. Richard Snyder

Congratulations to Our New Senior Members

February 2002

Sweldens, Wim
Zeger, Linda M.
Zhu, Yu

March 2002

Chen, Yisong
Kinet, Peter R.
Mastrapasqua, Marco

May 2002

Ghosh, Sumit
Ho, Tin Kam
Reibman, Amy
Widjaja, Indra

June 2002

Michalopoulou, Zoe-Helen

August 2002

Brender, David T.
Testagrossa, Paul A.

Conference Rooms Needed!

The North Jersey Section (Education Committee) is looking for conference room facilities to hold their training seminars. The seminars are being held on one weeknight from 6:30 PM to 9:00 PM. In lieu of providing the conference facility for free, the organization can get free registration up to three members in the course/seminar. Please contact Bhanu Chivakula, Co-chair, Education Committee at b.chivakula@computer.org for suggestions or discussions, if interested.

October 2002

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NEWSLETTER STAFF

Editor Keith Saracinello
Business Manager..... Theresa Saracinello

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, (908) 791-4067.

IEEE NJ SECTION HOME PAGE

<http://www-ec.njit.edu/~ieeenj/>

IEEE NJ SECTION NEWSLETTER HOME PAGE

<http://www-ec.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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Naz Simonelli (naz@sprynet.com)
Dr. Richard Snyder (r.snyder@ieee.org)

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 Wayne Owens at (201) 767-3400, ext. 226, wowens@crestron.com.

NJ EDS, C&S Chapters:

Requirements for High Performance RF/UHF ICs and Possible Solutions

On October 10, 2002, the North Jersey Section IEEE Electron Devices and Circuits and Systems Chapters will host a presentation on "Requirements for High Performance RF/UHF ICs and Possible Solutions." The Speaker will be Dr. Ulrich Rohde of Synergy Microwave.

About the Talk

One of the most difficult situations is the operating mode of a base station. As it gets bombarded with signals, it emits a lot of power at the same time. This paper addresses the key problem areas, which are mixers, amplifiers, and oscillators and shows some possible IC-based solutions.

About the Speaker

Dr. Ulrich Rohde is President of Communications Consulting Corporation; a member of the Board of Directors of Ansoft Corporation, Pittsburgh, Pennsylvania; he is Chairman of Synergy Microwave Corp., Paterson, New Jersey; and a partner of Rohde & Schwarz, Munich, Germany, a multinational company specializing in advanced test and radio communications systems. Previously, he was the President of Compact Software, Inc., Paterson, New Jersey; and Business Area Director for Radio Systems of RCA, Government Systems Division, Camden, New Jersey, responsible for implementing communications approaches for military secure and adaptive communications.

Dr. Rohde has published more than 60 scientific papers in professional journals. He is a member of the following: Fellow Member of the IEEE, Invited Panel Member for the FCC's Spectrum Policy Task Force on Issues Related to the Commission's Spectrum Policies, ETA KAPPA NU Honor Society, Executive Association of the Graduate School of Business-Columbia University, New York, the Armed Forces Communications & Electronics Association, fellow of the Radio Club of America, and former Chairman of the Electrical and Computer Engineering Advisory Board at New Jersey Institute of Technology.

All Welcome!

You do not have to be a member of the IEEE to attend. Refreshments will be served.

Time: 7:00 PM, Thursday, October 10, 2002. Free buffet will be starting at 6:15 PM.

Place: New Jersey Institute of Technology (NJIT), Room 202, ECE

Center, Newark, NJ. Directions are available at www.njit.edu.

Information: Dr. Richard Snyder (973) 492-1207 (RS Microwave), Dr. Durga Misra (973) 596-5739 (dmisra@njit.edu) or Dr. Edip Niver (973) 596-3542 (NJIT).

NJ Section PACE:

Manpower Issues

Your Professional Activities Committee will meet on Wednesday, October 9, 2002, to discuss manpower issues and Member's professional needs.

About the Meeting

High on the list of subjects is unemployment and the displacement of American citizens by foreign workers imported under the H-1B legislation. This year the legislation increased the number of H-1B workers to about 200,000 while citizens have been disregarded. Check this site

http://www.senate.gov/legislative/vote/1062/vote_00262.html

And, please do not confuse this as an "immigration" issue. This is about money, wage busting and depriving IEEE members of employment and skill enhancement opportunities.

New events and issues present themselves every day. You may bring information and solutions to some of our problems or bring us closer to success.

The PACE meeting is open to discuss our members' professional needs. PACE provides IEEE members with the opportunity to meet, address, discuss and perhaps improve the professional aspects of the engineering profession. Members should take advantage of the opportunity to have a place and time to meet with their associates to discuss the issues.

While checking with PACE Leaders, I found high on the list of IEEE-USA goals this year "Employment Assistance and Career Development due to the worsening economy." More on these projects can be found at www.ieeeusa.org.

Any suggestions may be emailed to Richard F. Tax at rtax@bellatlantic.net.

Welcome!

You do not have to be a member of the IEEE to attend. Members of other professional societies and engineering disciplines are always welcome.

Time: 6:30 to 8:30 PM, Wednesday, October 9, 2002.

Place: Clifton Memorial Library, 292 Piaget Ave, Clifton, NJ 07011, (973) 772-5500.

Information: Richard F. Tax, (201) 664-6954, rtax@bellatlantic.net.

IEEE North Jersey Section Activities

October 2002

Oct. 2–“NJ Section Executive Committee Meeting” – 7:00 PM, ITT, 100 Kingsland Rd, Clifton, NJ. Wayne Owens at (201) 767-3400 ext. 226 or wowens@crestron.com.

Oct. 2–Dec. 18–“JAVA Programming” – North Jersey Section, Wednesday Evenings, 10 sessions, 6:30-9:00 PM, Ramada Inn Clifton, 265 Route 3 East, Clifton, NJ. Bhanu Chivakula at b.chivakula@computer.org.

Oct. 3–“2002 MTT/AP Symposium and Mini-Show” – MTT-S/AP-S Chapter, 9:15AM - 5:45PM, Radisson Hotel Fairfield, 690 Route 46 East, Fairfield, NJ. Kirit Dixit (201) 400-2313, Willie Schmidt (973) 492-0371, Har Dayal (973) 633-4618, or George Kannell (973) 386-4170.

Oct. 9–“Manpower Issues” – NJ PACE, 6:30 – 8:30 PM, Clifton Memorial Library, 292 Piaget Ave, Clifton, NJ. Richard F. Tax, (201) 664-6954, rtax@bellatlantic.net.

Oct. 10– “Requirements for High Performance RF/UHF ICs and Possible Solutions” – EDS/C&S Chapters, 7:00PM (buffet at 6:15PM), NJIT, 202 ECE Center, Newark, NJ. Dr. Richard Snyder (973) 492-1207, Dr. Durga Misra (973) 596-5739 (dmisra@njit.edu), or Dr. Edip Niver (973) 596-3542.

Oct. 17–“National Electric Code and Uniform Construction Code Updates” - NJ IAS/PES Chapters, 7:00PM, PSE&G Training Center, Edison, NJ. Ken Oexle (973) 386-1156.

Oct. 17–“Future Chapter Activities” – NJ Computer Chapter, 7:00 PM, Conference Meeting Room, Morris County Library, 30 E. Hanover Ave, Whippany, NJ. Howard Leach (908) 255-1634 or h.leach@ieee.org.

Oct. 18–“Power Transfer Switch Seminar” – NJ IAS/PES Chapters, 9:00 AM to 3:00 PM, Automatic Switch Company, 50 Hanover Road, Florham Park, NJ. Vittal Rebbapragada (609) 720-3209 (r.rebbapragada@ieee.org).

Oct. 24–“Using Visual Programming Languages for Data Acquisition and Hardware Programming” – NJ Consultants' Network, 7:30 PM, KDI Triangle, 60 S. Jefferson Rd, Whippany, NJ. Robert Walker (973) 728-0344 or www.TechnologyOnTap.org.

Upcoming Meetings

Nov. 6–“NJ Section Executive Committee Meeting” – 7:00 PM, ITT, 100 Kingsland Rd, Clifton, NJ. Wayne Owens at (201) 767-3400 ext. 226 or wowens@crestron.com.

Nov. 6–“Semantic Information Processing of Spoken Language - How May I Help You? (sm)” - NJ Communications Chapter, 11:30 AM, NJIT, 202 ECE Center, Newark, NJ. Dr. Nirwan Ansari (973) 596-3670 (nirwan.ansari@njit.edu), Amit Patel (a.j.patel@ieee.org). Please check <http://web.njit.edu/~ieeenj/comm.html> for the latest updates.

Nov. 6–“Introduction to Context Aware Computing” – NJ Computer Chapter, 7:00 PM, Public Meeting Room, Morris County Library, 30 E. Hanover Ave, Whippany, NJ. Howard Leach (908) 255-1634 or h.leach@ieee.org.

Nov. 22–“Protective System Relaying Seminar” – NJ IAS/PES Chapters, 9:00AM - 3:00PM, Jersey Central Power and Light Headquarters Building, 300 Madison Ave, Morristown, NJ. R. Vittal Rebbapragada (609) 720-3209 or via e-mail at r.rebbapragada@ieee.org.

Mar. 15–2004 IEEE Fellow Nominations Due.

Members and Non-Members Welcome

PLEASE POST

PES/IAS:

National Electric Code and Uniform Construction Code Updates

On October 17th, 2002, the Power Engineering and Industrial Applications Chapters will sponsor a technical meeting on recent changes to the National Electric Code and revisions to Uniform Construction Code. The speaker will be Won Kim, PE, an Associate with Eckland Consultants.

Time: 7:00 PM, Thursday, October 17, 2002.

Place: PSE&G Training Center, Edison, NJ. Directions: Route 287 to Route 1 North, about 500 feet. Right on Pierson Road. PSE&G first driveway on left.

Information: Ken Oexle (973) 386-1156.

2004 IEEE Fellow Nominations

Deadline: 15 March 2003

Recognizing the achievements of its members is an important part of the mission of the IEEE. The IEEE grade of Fellow is conferred upon a person of "outstanding and extraordinary qualifications and experience in IEEE designated fields, and who has made important individual contributions to one or more of these fields." The total number of Fellows selected each year does not exceed 0.1% of the total IEEE membership.

Any person, including nonmembers, is eligible to serve as a nominator with the following exceptions: members of the IEEE Board of Directors, members of the IEEE Fellow Committee, IEEE Technical Society/Council Fellow Evaluating Committee Chairs, members of IEEE Technical Society/Council Evaluating Committees reviewing the nomination, or IEEE staff. The deadline for nominations is 15 March 2003.

The candidate must be an IEEE Senior Member at the time the nomination is submitted, and he/she must have completed 5 years of service in any grade of IEEE membership.

All the necessary material to assist you in the nomination process is available on the IEEE Web site: <http://www.ieee.org/about/awards/fellows/fellows.htm>. If you prefer a hard copy, please send an e-mail to fellow-kit@ieee.org. Include your name, street address, city, state/province, postal code, country, and telephone/fax numbers.

NJ Computer Chapter: Future Chapter Activities

On Thursday, October 17th, 2002, the IEEE North Jersey Computer Chapter will hold an organization meeting on future chapter activities.

Meeting Agenda

Howard Leach, the current chair will give a brief overview of recent activities and future plans. He will also explain the budgeted section support. He will then outline some of advantages of membership in the Computer Society which include:

- Distance Learning Courses,
- On-line Technical Reference,
- Certified Software Development Professional Program.

He will then focus on getting the Chapter organized in the following areas:

- Chapter volunteer positions,
- future meeting topics,
- Distinguished Visitor Speaker Program,
- resources available for creating our own web site.

This is your opportunity to get involved in the Computer Society activities at the Section level. New volunteers are welcome. Come and become a part of the North Jersey Section Computer Chapter steering committee. Help steer the Chapter toward holding technical meetings with topics in your particular field or interest.

All Welcome!

You do not have to be a member of the IEEE to attend. Bring your friends.

Time: 7:00 PM, Tuesday, October 17, 2002. Pre-meeting dinner 6:30 PM in the conference room.

Place: Conference Meeting Room, Morris County Library, 30 E. Hanover Ave, Whippany, NJ, (973) 285-6930.

Information: Howard Leach (973) 540-1283 or h.leach@ieee.org.

NJ Computer Chapter:

Introduction to Context Aware Computing

On Wednesday, November 6, 2002, the IEEE North Jersey Section Computer Chapter will host a presentation on "Introduction to Context Aware Computing" by Eli Rohn.

About the Talk

Context Aware Computing is about to enter the mainstream of computer based gadgets and with no doubt will become part of mainstream computing. Certain future applications will be expected to perform tasks related to context.

The presentation covers the following:

- Introduction to Context Aware Computing
- Early examples (with side bars for clarification)
- Taxonomy and classification of Context Aware Computing
- General, legal, and ethical issues with Context Aware Computing
- Examples of ongoing Context Awareness related research
- Exploring theoretical limits
- Conclusion

About the Speaker

Mr. Rohn is the Managing Member of Rohn Consulting LLC, an outstanding IT consulting firm. He has published two technical books and over 30 professional articles. Mr. Rohn, who started as a programmer, has over 18 years of experience with Information Technology, ranging from mainframes to wireless computing. In addition, Mr. Rohn is an adjunct professor at the New Jersey Institute of Technology, College of Computer Science.

All Welcome!

You do not have to be a member of the IEEE to attend. Bring your friends.

Time: 7:00 PM, Wednesday, November 6, 2002. Pre-meeting dinner at 5:30 PM, at the Hanover Marriott, Hanover, NJ, (973) 538-8811.

Place: Public Meeting Room, Morris County Library, 30 E. Hanover Ave, Whippany, NJ, (973) 285-6930.

Information: Howard Leach (908) 255-1634 or h.leach@ieee.org.

NJ Communications Society: Semantic Information Processing of Spoken Language - How May I Help You? (sm)

On November 6, 2002, the IEEE North Jersey Section Communications Society Chapter along with NJIT will host a presentation on "Semantic Information Processing of Spoken Language." The speaker will be Dr. Allen Gorin.

About the Talk

The next generation of voice-based user interface technology will enable easy-to-use automation of new and existing communication services, achieving a more natural human-machine interaction. By natural, we mean that the machine understands what people actually say, in contrast to what a system designer expects them to say. This approach is in contrast with menu-driven or strongly-prompted systems, where many users are unable or unwilling to navigate such highly structured interactions. AT&T's 'How May I Help You?' (HMIHY)(sm) technology shifts the burden from human to machine wherein the system adapts to peoples' language, as contrasted with forcing users to learn the machine's jargon. We have developed algorithms which learn to extract meaning from fluent speech via automatic acquisition and exploitation of salient words, phrases and grammar fragments from a corpus. In this talk I will describe the speech, language and dialog technology underlying HMIHY, plus experimental evaluation on live customer traffic from AT&T's national deployment for customer care.

About the Speaker

Allen Gorin is a Technology Leader in AT&T Laboratories, with long-term research interests focusing on machine learning methods for spoken language understanding. In recent years, he has led a research team in applying speech, language and dialog technology to AT&T's "How May I Help You?" (HMIHY) (sm) service, which has been deployed nationally for long distance customer care. He was awarded the 2002 AT&T Science and Technology Medal for his research contributions to spoken language understanding for HMIHY.

He received BS and MA degrees in Mathematics from SUNY at Stony Brook, and a PhD in Mathematics from the CUNY Graduate Center in 1980. From 1980-83 he worked at Lockheed investigating algorithms for target recognition from time-varying imagery. In 1983 he joined AT&T Bell Labs where he was the Principal Investigator for AT&T's

ASPEN project within the DARPA Strategic Computing Program, investigating parallel architectures and algorithms for pattern recognition. In 1987, he was appointed a Distinguished Member of the Technical Staff. In 1988, he joined the Speech Research Department at Bell Labs. He has served as a guest editor for the IEEE Transactions on Speech and Audio, and was a visiting researcher at the ATR Interpreting Telecommunications Research Laboratory in Japan. He is a member of the Acoustical Society of America, Association for Computational Linguistics and an IEEE Senior Member.

All Welcome!

You do not have to be a member of the IEEE to attend. Bring your friends.

Time: 11:30 AM (refreshments start at 11:15 AM), Wednesday, November 6, 2002.

Place: New Jersey Institute of Technology (NJIT), Room 202, ECE Center, Newark, NJ. Directions are available at www.njit.edu.

Information: Dr. Nirwan Ansari (973) 596-3670 (nirwan.ansari@njit.edu), Amit Patel (a.j.patel@ieee.org), or check <http://web.njit.edu/~ieeenj/comm.html> for the latest updates.

Advance to Senior Member Grade

To become a Senior Member, you need 10 years experience. A Bachelors Degree counts for 3 of those years and Masters and Doctorates each count for 1 year. You don't have to be an IEEE member for 10 years. The dues for Senior Members, Members and Associates are the same. Senior Member applications are evaluated by the Application & Advancement Committee that meets most months at different locations.

The IEEE will send each new Senior Member a wood and bronze plaque.

To get information and an application to advance to Senior Member Grade, contact: Don Weinstein, Kulite Semiconductor, One Willow Tree Road, Leonia, NJ 07605-2239, (201) 461-0900 Ext 234, mornings, FAX (201) 461-0990, email:don@kulite.com. **Be sure to include your mailing address.**

Member-Get-A-Member Program

The IEEE is conducting a Member-Get-A-Member Program. It will run from September 1, 2002 to August 15, 2003. If you recruit members, you can win a Voucher Prize and possibly free membership for 2004.

MGM New Members Recruited	Voucher Prize	A chance to win 1 year of free IEEE membership for 2004
1-2	\$5	Awarded to 1 recruiter
3-5	\$10	Awarded to 2 recruiters
6-9	\$20	Awarded to 3 recruiters
10 or more		Awarded to ALL recruiters in this category

You can get the 2003 membership application forms from: Don Weinstein, Kulite Semiconductor Products, One Willow Tree Road, Leonia, NJ 07605-2239, (201) 461-0900, mornings, FAX (201) 461-0990, email don@kulite.com.

Please include your mailing address and the quantity of application forms.

You must enter your name and your member number in the green Member-Get-A-Member Recruiters box on the application.

North Jersey Student Activities Committee and GOLD Seek Volun- teers and Speakers

The NNJ IEEE SAC and GOLD are seeking new volunteers to help conduct business at the section level for the benefit of students in the North Jersey section and surrounding areas. Additionally local student chapters are seeking speakers to give talks on professional and technical topics.

If you would like to speak on professional topics ranging from career development, time or project management, engineering experiences, and many more, or have specific technical topics and developments you would like to contribute, or even have some pet topics of your own, please contact the organizer below.

Additionally, the NNJ SAC is seeking volunteers to get involved at the section level to help organize local events for students and the GOLD membership in the NY-NJ Metro area. If you would like to help out even for short periods of time or maybe take on leading a committee in the section, please contact the organizer Amit Patel (a.j.patel@ieee.org) to find out more and come to a section business meeting.

Protective System Relaying Seminar

A One-Day IEEE Seminar

Presented by the North Jersey Section IAS and PES Chapters

November 22, 2002

9:00 AM to 3:00 PM

The PES and IAS Chapters will sponsor a one-day seminar covering the fundamentals and application of protective relaying principles and applications for industrial and utility systems. The seminar leaders are members of the IEEE Power System Relaying Committee and will address relaying topics specific to utility, substation and industrial distribution systems. Topics to be covered in the session include:

- Fundamental Relay Concepts and Definitions
- Relay Types and Basic Operating Principles
- Relay and Fuse Coordination
- Bus and Transformer Protection
- Distribution Feeder Protection
- Transmission Line Protection
- Motor and Generator Protection

LOCATION:	JCP&L Building (former GPU Energy), 300 Madison Avenue, Morristown NJ. Directions: Route 287 to Route 124 Exit in Morristown. Follow signs toward Madison, JCP&L is about 1.5 miles on the left side.
COST:	The registration fee for this seminar prior to November 8th is \$175 (non-IEEE members), \$125 (IEEE Members), and \$50 (students with valid ID). The fee will be waived for IEEE Life Member Grades with verification at the seminar. Registrations after November 8th must include an additional late fee of \$25. The seminar fee includes lunch, refreshments and handouts. Non-members joining IEEE within 30 days of the seminar will be rebated 50% of the IEEE registration charge.
INFORMATION:	R. V. Rebbapragada, Washington Group, International, 510 Carnegie Center, Princeton, NJ 08540, phone 609-720-3209, e-mail r.rebbapragada@ieee.org

Registration: Protective Relaying Seminar, 11/22/2002

Register via US mail to:

K. Oexle
11 Deerfield Rd
Whippany, NJ 07981

Name _____

Address _____

Phone _____ Email _____

IEEE # _____ Student @ _____ Non IEEE ____ Life Member ____

Payment Enclosed \$ _____ Add \$25 late registration fee after November 8th

*Make Check payable to **North Jersey Section IEEE***

THE INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS, INC.



NORTH JERSEY SECTION

MTT-Society and AP-Society Joint Chapter

PRESENT

17TH ANNUAL SYMPOSIUM AND MINI – SHOW

THURSDAY OCTOBER 3, 2002

9:15AM to 5:45PM

Radisson Hotel and Suites, Fairfield, NJ 973-227-9200

The conference presents a series of 12 lectures describing the state of the art in Microwave, RF, Optical and Wireless, technologies by leaders in their respective fields.

Presentation Schedule

Time	Topic	Speakers	Title	Affiliation
9:15	Opening Remarks	George Kannell	Technical Sessions Chair	Lucent Technologies
9:30	Highly Reproducible State-of-the-Art Quartz Oscillators	John Ho	Vice President R&D	Frequency Electronics
10:00	Advanced VCO design using Ansoft Designer	Bill McGinn	Director of Applications	Ansoft Corporation
10:30	Break			
11:00	Amplifier for Military Communication and Surveillance Systems	Har Dayal, Wayne Bolan	Sr. Member of Technical Staff, Consultant	BAE Systems
11:30	A LINC Amplifier with Lossless Combining: Design and Control	Rajiv Chandrasekaran	Senior Principal Engineer	Andrew Corporation
12:00	Lunch			
1:00	TBD			
1:30	Requirements for High Performance RF/UHF Ics and Possible Solutions	Ulrich Rohde	President	Communications Consulting Corp.
2:00	Integrated Circuits for Base Station Applications	Ron Buswell	Senior Vice President	WJ Communications
2:30	Fiber Optics enables new Wireless Architectures	Henry Wojtunik	President	Fiber-Span
3:00	Break			
3:30	Resolution technique for near field coupling effect on co-located Antenna Towers	Clyde Grimm, Andrew Comba, Tom Huang	Principal Engineer, Sr. Engineer, Sr. Member of Technical Staff	BAE Systems
4:00	Terrain based link analysis in military communication.	Dr. J. B. Benjamin	Sr. Member of Technical Staff	BAE Systems
4:30	Wireless Technology Evolution	Joe Tarallo	Director Wireless Technology	Lucent Technologies
5:00	Voice Quality Analysis for Wireless Networks	Aart Konynenberg	Vice President	Opticom
5:30	Closing remarks	Kirit Dixit	Chair IEEE MTT/AP-s North Jersey Section	RF Electronic Sales

10 :00 AM TO 6:00 PM - MINI SHOW FEATURING LATEST PRODUCTS

Details will be published in the October issues of the NORTH JERSEY IEEE NEWSLETTER and at <http://www-ec.njit.edu/~ieeenj/NEWSLETTER.html>.

FOR FURTHER INFORMATION CONTACT: KIRIT DIXIT (516-624-3800), HAR DAYAL (973-633-4618), WILLIE SCHMIDT (973-492-0371) or GEORGE KANNELL (973-386-4170)

THERE IS NO CHARGE TO ATTEND THE SYMPOSIUM OR SHOW.

FREE BREAKFAST / LUNCH INCLUDED FOR ALL.

NJ PES/IAS:

Power Transfer Switch Seminar

The PES and IAS Chapters will present a technical seminar on the design, operation and application of industrial grade low – medium voltage (120 thru 15000 volt) power transfer switches. The session will be held at Automatic Switch Company, 50 Hanover Road in Florham Park, NJ, on Friday October 18, 2002 beginning at 9:00AM.

About the Seminar

Topics to be covered include:

- Power Transfer Switch Design and Construction
- Industry Codes and Standards
- Power Switching Applications
- Controls and Communication Systems for Transfer Switching
- Transfer Switch Ratings
- Tour of ASCO/Emerson Switch Assembly and Test Facility

Mr. Ronald Schroeder, Director – Product Management Power Switching and Controls, will lead the seminar and be assisted by other members of the staff at Automatic Switch (a Division of Emerson Electric). Ron has over 30 years of experience in the design and application of power transfer switches to meet specific application requirements. A graduate of Kean University, he is a member of IEEE.

The registration fee for this seminar prior to October 4th will be \$175 (non-IEEE members), \$125 (IEEE Members), and \$50 (students with valid ID). The fee will be waived for IEEE Life Member Grades with advance registration and verification at the seminar. Registrations after October 4th must include an additional late fee of \$25. The seminar fee includes lunch, refreshments and handouts. Non-members joining IEEE within 30 days of the seminar will be rebated 50% of the IEEE registration charge.

Time: 9:00 AM to 3:00 PM, Friday, October 18, 2002.

Place: Automatic Switch Company, 50 Hanover Road, Florham Park, NJ 07932 (973-966-2000). Directions: From Route 80 Take I-287 to Exit 37 (NJ 24 East - Springfield). Take NJ 24 East to Exit 2B (Columbia Turnpike). Proceed 2.2 miles to Hanover Road (6th set of traffic lights). Turn left on Hanover Road (Afton Restaurant). Automatic Switch will be on the right (0.4 mile). Enter first driveway-marked shipping/receiving and proceed to visitor parking lot on the left. Follow sidewalk to office entrance door.

Information: R. Vittal Rebbapragada, PE, (609) 720-3209 or r.rebbapragada@ieee.org.

Registration: Power Transfer Switch Seminar, 10/18/2002

Register via US mail to:

K. Oexle
11 Deerfield Rd
Whippany, NJ 07981

Name _____

Address _____

Phone _____ Email _____

IEEE # _____ Student @ _____ Non IEEE _____ Life Member _____

Payment Enclosed \$ _____ Add \$25 late registration after October 4th, 2002.

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