



The IEEE

Newsletter

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

NJ EMS Chapter:

Project Management: High-Impact Tech- niques for Any Effort

On December 13, 2001, the IEEE North Jersey Section Engineering Management Chapter will host an electronic presentation on "Project Management: High-Impact Techniques for Any Effort" by Cinda Voegtli. The IEEE Electronic Distinguished Lecturers Program prepared this presentation.

About the Talk

The focus of this presentation is on the process of project management. Techniques which lead to successful projects. Methods which have failed. How is a marketing concept transformed into a finished product? What steps along the way will produce a higher probability of success? These questions and more will be addressed.

About the Speaker

Cinda Voegtli, BSEE, is President and CEO of ProjectConnections.com, a web-based service providing online resources and support for project managers worldwide. She has 20 years experience in hardware and software development, engineering and project management, and product development process improvement. Her experience spans a wide variety of industries such as data and telecommunications systems, medical devices, robotics and computer systems, software and information systems, and virtual reality and game products.

Cinda has held director-level and senior management positions at high-technology companies in Dallas, Los Angeles, and Silicon Valley. She has managed projects in start-up, high-growth, and established large corporate environments. Since 1992 she has provided corporate high-technology clients with product development and project management expertise, led related workshops in the US and abroad, and presented at project and engineering management conferences.

All Welcome!

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

Time: 7:00 - 9:00 PM, Thursday, December 13, 2001.

Place: Crestron Electronics, Training Room 2, Rockleigh, NJ. Directions are available at <http://www.crestron.com/contact/directions.html>

Information: Wayne Owens, (201) 767-3400 x226 (wowens@ieee.org).

NJ Signal Processing Chapter:

3-D Subband Video Coding Techniques

On Wednesday, November 14, 2001, the IEEE North Jersey Section Signal Processing Society Chapter will host a presentation on "3-D Subband Video Coding Techniques." The speaker will be Professor Hong Man.

About the Talk

Subband (or wavelet) coding technology has been widely adopted in still image compression standards and commercial software products. The advantages of subband coding over conventional discrete cosine transform (DCT) based coding techniques in image compression have been well recognized. However this type of technique has not been able to enjoy a similar success in video coding applications. Several remarkable subband video coding algorithms have been proposed during the last decade, yet they still haven't attracted enough attention. In this talk, we intend to make an argument that subband video coding is in deed a viable approach in many applications. We will first review some of the existing subband video coding techniques, including both 2-D and 3-D approaches. We will then

introduce various subband implementations which can be based on DCT, lapped transforms (LT) as well as wavelet filter banks. Following these we will present some latest developments in 3-D subband video coding. The compression performance, computation efficiency, and channel error resilience of our new coding techniques will be examined.

About the Speaker

Hong Man is an assistant professor in the Department of Electrical and Computer Engineering at Stevens Institute of Technology. He received his BS degree from Soochow University (China) in 1988, the MSEE degree from Gonzaga University in 1994, and the PhD degree from Georgia Institute of Technology in 1999, all in Electrical Engineering. He had worked as a research assistant in the Center for Signal and Image Processing at Georgia Tech. His research interests include image and video compression, source/channel/network coding, multi-media communications and networking, subband/wavelet data transformation, image analysis.

All Welcome!

You do not have to be an IEEE member to attend. Light refreshments will be served at 4:45 PM.

Time: 5:00 - 6:00 PM, Wednesday, November 14, 2001.

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

Information: Dr. Yun-Qing Shi, (973) 596-3501, shi@njit.edu (NJIT) or Dr. Alfredo Tan, (201) 692-2347, tan@mailbox.fdu.edu (Fairleigh Dickinson University).

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NEWSLETTER STAFF

Editor.....Keith Saracinello
Business ManagerTheresa 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.

SECTION OFFICERS

Chairman.....Dr. Nirwan Ansari
nirwan.ansari@njit.edu (973) 596-3670
Vice-Chairman-1Rodney Cole
rgcole@ieee.org (973) 299-9022 Ext. 2257
Vice-Chairman-2Milton Korn
miltonkorn@aol.com (973) 365-2757
TreasurerDr. Durga Misra
dmisra@njit.edu (973) 596-5739
SecretaryWayne Owens
wowens@crestron.com (201) 767-3400, ext. 226

Members-at-Large:

Bhanu Chivakula (b.chivakula@computer.org)
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.

Professional Skills Development Workshop Call for Participants

This notice is to inform all interested students/GOLD of the upcoming Professional Skills Development Workshop. This annual workshop will be held on Saturday, November 17th, 2001 at Stevens Institute of Technology, Hoboken, NJ in the Burchard Auditorium from 9:30AM to about 4:00PM.

If you don't already know, this workshop is to provide students an opportunity to get professional skills education that is not available in an academic environment. Comparable to last year's workshop, the agenda will include topics emphasizing softer skills that engineers need to succeed in today's working world. Previous topics included career planning and management, overcoming fears, and public communication skills.

The Fall '01 program will include new professional topics and new speakers from industry/academia. This year's topics include:

- ◆ "The Basics of Monte Carlo Simulation: A Tutorial"
- ◆ "Life Management Skills for Success"
- ◆ "Diversity, Culture, and Technical Project Management"
- ◆ "What to do Before the Pink Slip Arrives"

Remember, this workshop is open to all interested engineering students and GOLD members that want to learn such professional skills and have an edge before they go to work or at their current jobs. Invite your fellow engineering friends and spread the word.

So what do you have to do? **PRE-REGISTER!** Attendance to the event is completely FREE. You **MUST** pre-register to reserve a seat at the event, to reserve a copy of the FREE workshop proceedings (this is a copy of all the speaker's presentations and related materials) and to reserve a seat for a FREE lunch. If you do NOT pre-register we can not guarantee any of the above. The registration form can be found on the North Jersey IEEE Section SAC website:

http://ewh.ieee.org/r1/north_jersey/sac

Also, directions, agenda, location, maps, speaker biography and detailed abstracts can be found there or email the organizer Amit Patel a.j.patel@ieee.org for more information or to join the SAC mailing list.

NJ MTT/AP and VTS Chapter: Fourth Generation Cellular Systems and Smart Antennas

The IEEE NJ Section MTT/S/AP-S and VTS Chapters will host a talk November 15, 2001 on "Fourth Generation Cellular Systems and Smart Antennas." The speaker will be Dr. Jack H. Winters.

About the Talk

In this talk we discuss the evolution to high-speed data mobile wireless systems, with data rates in excess of 10 Mbps. We describe the extension of wireless local area networks using 802.11b and 802.11a, and cellular systems (WCDMA), to provide high-speed ubiquitous access. Smart antennas are then described and shown as a key technology to provide the needed enhancements of range extension, interference suppression, and capacity increase.

About the Speaker

Dr. Jack H. Winters is Division Manager of the Wireless Systems Research Department at AT&T Labs Research. He is also a Fellow of the IEEE, IEEE Distinguished Lecturer for the IEEE Communications and the Vehicular Technology Societies, Area Editor for Transmission Systems for the IEEE Transactions on Communications, Technical Program Chair for the Fall 2001 Vehicular Technology Conference, and New Jersey Inventor of the Year for 2001. He received his PhD in Electrical Engineering from the Ohio State University in 1981, and has been at AT&T in the research area since then. His research interests include signal processing techniques, such as smart antennas, for increasing the capacity and performance of wireless local area networks and cellular systems.

All Welcome!

You do not have to be an IEEE member to attend.

Pre-Register!

Pre-registration is strongly suggested. Please email swilkowski@lucent.com or kdixit@rfsales.com with full name (first and last), affiliation, and citizenship so that a guest badge is ready.

Time: 7:00 PM, Thursday, November 15, 2001. Free dinner will be available at 6:00 PM.

Place: Lucent Technologies, Room wh-4A-323, Whippany, NJ.

Information: Stephen Wilkowski (973) 386-6487 (Lucent Technologies), Art Greenberg (973) 386-6673, Kirit Dixit, (201) 400-2313 (RF Electronics), Willie Schmidt (973) 492-0371.

North Jersey Section Activities

November 2001

NJ Communications Society:

3G WCDMA Mobile Terminal Chipset Development: Market, Business, and Design

On November 8th, the IEEE North Jersey Chapter of the Communications Society along with NJIT will host a presentation on "3G WCDMA Mobile Terminal Chipset Development: Market, Business, and Design." The speaker will be Dr. Robert C. Qiu.

About the Talk

There are a lot of challenges in front of the world. Thomas Edison famously remarked that "invention is 1% inspiration and 99% perspiration." For third-generation wireless technology known as 3G, much of the needed inspiration is there. But many engineers will have to do a serious amount of sweating before data start zipping through the air at high speeds for mobile phone users around the globe. This was the case for IS-95. One of the big challenges for 3G WCDMA services is the availability of mobile terminals and especially chipsets. This talk will present the related topics like 3G market, business, and chipset development of 3G WCDMA mobile terminals. Critical issues like power consumption will be highlighted. The style of this presentation will be suitable for professionals to understand the underlying 3G issues and for technical community to understand the technical challenges in the engineering design. Design of 3G chipsets is far from perfect. Sharing this knowledge is the primary goal of the talk.

About the Speaker

Dr. Robert C. Qiu is currently the founder, Chief Scientist and President, Wiscom Technologies Inc. (www.wiscomtech.com), Clark, New Jersey, USA. From 5/2000-1/2001, Dr. Qiu was Founder-CEO & President. He holds 15+ US patents pending in WCDMA, and authors 35+ technical papers, 20+ internal technical memorandums, and 15 paper contributions to ITU 3GPP standard body.

All Welcome!

You do not have to be an IEEE member to attend.

Time: 5:00 PM, Thursday, November 8, 2001 (refreshments start at 4:45 PM).

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). Please check <http://www-ec.njit.edu/~ieeenj> for the latest updates.

Nov. 7—"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. 8—"Micro Devices" – EDS/C&S Chapters, 7:00 PM, 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.

Nov. 8—"3G WCDMA Mobile Terminal Chipset Development: Market, Business, and Design" - NJ Communications Chapter, 5:00 PM (refreshments at 4:45 PM), NJIT, 202 ECE Center, Newark, NJ. Dr. Nirwan Ansari (973) 596-3670 (nirwan.ansari@njit.edu). Please check <http://www-ec.njit.edu/~ieeenj> for the latest updates.

Nov. 14—"3-D Subband Video Coding Techniques" - NJ Signal Processing Chapter, 5:00-6:00 PM (refreshments at 4:45 PM), NJIT, 202 ECE Center, Newark, NJ. Dr. Yun-Qing Shi (973) 596-3501 or Dr. Alfredo Tan (201) 692-2324 (tan@mailbox.fdu.edu).

Nov. 15—"Project Management for Telecommunications Services" - NJ EMS, 7:00 – 9:00 PM, NJIT, 202 ECE Center, Newark, NJ. Wayne Owens at (201) 767-3400 Ext. 226 or wowens@crestron.com.

Nov. 15—"Fourth Generation Cellular Systems and Smart Antennas" - MTT/S/AP-S and VTS Chapters, 7:00 PM (refreshments at 6:00 PM), Lucent Technologies, Room wh-4A-323, Whippany, NJ. Stephen Wilkowski, 973-386-6487 (Lucent Technologies), Art Greenberg 973-386-6673, Kirit Dixit, (201) 400-2313 (RF Electronics), Willie Schmidt (973) 492-0371.

Nov. 15—"Seminar: Building A High Volume Scalable Web Site" - NY Computer & Communications Society Chapters, 9:00 AM – 4:45 PM, Consolidated Edison, Management Dining Room (19th Floor), 4 Irving Place, New York, NY. Yuan Yao (Yuan.Yao@equant.com) or <http://www.comsoc.org/socstr/chptrs/nyc/>.

Nov. 17—"Professional Skills Development Workshop" - 9:30 AM - 4:00 PM, Stevens Institute of Technology, main auditorium of the Burchard Building, Hoboken, NJ. Pre-registration required at http://ewh.ieee.org/r1/north_jersey/sac. Amit Patel at a.j.patel@ieee.org.

Upcoming Meetings

Dec. 6—"Consultants' Network Planning Meeting & Workshop" – NJ Consultants' Network, 7:30 PM, KDI Triangle, 60 S. Jefferson Road, Whippany, NJ. Robert Walker (973) 728-0344 or www.TechnologyOnTap.org.

Dec. 7—"Electric Power Cable Seminar" – NJ IAS/PES Chapters, 9:00 AM – 3:00 PM, GPU Energy, 300 Madison Ave, Morristown, NJ. R. Vittal Rebbapragada (609) 720-3209 or via e-mail at r.rebbapragada@ieee.org.

Dec. 13—"Project Management: High-Impact Techniques for Any Effort" - NJ EMS, 7:00 – 9:00 PM, Crestron Electronics, Training Room 2, Rockleigh, NJ. Wayne Owens at (201) 767-3400 Ext. 226 or wowens@crestron.com.

Dec. 20-22—"Fourth International Conference on Information Technology - CIT 2001" – IEEE NJ Section, Gopalpur-on-Sea, India. For more information please contact skmohapatra@lucent.com or see www.nist.edu/cit2001.

Jan. 27-31—"Power Engineering Society 2002 Winter Meeting" - New York Hilton (6th Avenue at 53rd Street), NY, NY. For more information see <http://www.ieee.org/organizations/society/power/subpages/meetings-folder/wm2002/wm2002page.html>.

Members and Non-Members Welcome

PLEASE POST

Instructors Wanted!

The IEEE North Jersey Section needs instructors with any combination of the following qualifications, skills and experience (both teaching and consulting experience) to teach Education Committee training seminars in the North Jersey Area. The classes may take place one or two evenings each week for a minimum of 10 classes (2.5 hrs x 10 classes = 25 hrs). Otherwise, classes may be offered on Saturdays depending on IEEE member's request and availability of the venue or place.

Topics of interest:

- Introduction to Java Programming (including RMI, Network Programming, Multi-threading etc)
- Advanced Java Programming (JavaBeans, EJB, J2EE etc.)
- XML, HTML, XHTML, DHTML

programming and development

- Visual Basic Programming with Access or SQL Server
- Advanced Visual Basic with ASP, COM, DCOM etc.
- Oracle Database Programming
- Database Administration (Oracle, SQL Server)

The Education Committee is open to comments or suggestions. Resumes should be sent to Bhanu Chivakula at b.chivakula@computer.org. Please contact the undersigned for further information:

- ✉ Dr. Fred Chichester, Chair Education Committee, Voice mail (973) 744-3065
- ✉ Bhanu Chivakula, Co-Chair Education Committee, email: b.chivakula@computer.org

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Crestron's Rockleigh, New Jersey headquarters is home to Engineering, Sales, and Marketing, with our manufacturing facilities located nearby. Only 15 miles from New York City, yet nestled in a wooded suburban setting, our area provides an outstanding quality of life. Some of our 400 employees are also based in our branch offices in Los Angeles, Chicago, Atlanta and Dallas, or our international offices in eleven countries.

Crestron is a great place to work for all levels of engineers, from junior level designers to senior level management. We present a unique career opportunity for a variety of positions and have immediate openings in all areas.

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To discuss specific job openings and how you can join the Crestron team, contact Crestron Human Resources at 800-237-2041 or careers@crestron.com

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M.I.T.

Princeton University

The Wharton School of Business

Columbia Law School

The University of Texas

Rice University

and many others...



Internet touchpanel control system



RF wireless mouse



wall-mounted internet touch panel control system



AM/FM/TV tuner



All names are trademarks or service marks of their respective holders.

NJ EDS, C&S Chapters:

Micro Devices

On November 8, 2001, the IEEE NJ Section Electron Devices, and Circuits and Systems Chapters together with the New Jersey Institute of Technology will host a talk on "Micro Devices." The speaker will be William Trimmer.

About the Talk

Man has been developing tools and devices on the size scale of his hands for millennia. Cooperative efforts have also made substantially larger mechanical systems such as cranes, ships, and even canals and roads possible. Strangely enough, small scale structures have not historically been put to the same good advantage. Recent tools and fabrication techniques are changing this.

A few of the numerous opportunities include genetic engineering, microsurgery, drug delivery, the science and engineering of small scale phenomena, pressure sensors, accelerometers, micro valves and fluid controllers, micro actuators, distributed intelligence, communications and many others.

This talk will provide an overview of the history, recent developments, and the potential for the future of the field of micromechanics and MEMS. The capabilities of different technologies and promising applications will be examined. The audience is encouraged to ask questions about their areas of interest.

About the Speaker

William Trimmer is one of the original researchers in the field of micro mechanics. He organized and was Editor of the IEEE/ASME Journal of Microelectromechanical Systems for six years, and started and was Editor of the Micromechanics Section in the Sensors and Actuators Journal. He organized and co-chaired the first workshop in the international series of Microelectromechanical Systems Workshops, and he published the IEEE book *Micromechanics and MEMS*. He has co-developed a micro optical fiber switch, a shape memory alloy actuator, an inch worm motor, a genetic engineering tool, and a sacrificial technique for making micro devices.

All Welcome!

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

Time: 7:00 PM, Thursday, Nov. 8, 2001. Free buffet will be starting at 6:00 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 EMS Chapter:

Project Management for Telecommunications Services

On November 15, 2001, the IEEE North Jersey Section Engineering Management Chapter will host a presentation on "Project Management for Telecommunications Services" by Dr. Mostafa Hashem Sherif.

About the Talk

The discipline of Project Management has been dealing mostly with industrial projects in construction, aerospace and defense. In the last decade, many different industries including software engineering have applied project management techniques to meet the triple constraints of cost, quality and schedule. However, very few textbooks or courses on project management have addressed the special needs of project managers in service organizations.

The focus of this talk is on telecommunication services. First, we give examples to show how the approach to project management differs in this situation from that of equipment manufacturing or software development. We then show how these differences affect the context in which project management is applied in the areas of scope management, quality management and risk management.

About the Speaker

Mostafa Hashem Sherif is a Principal Member of the Technical Staff at AT&T Laboratories. He received his BSc in Electronics and Communications and MSc in Electrical Engineering from Cairo University, Egypt in 1972 and 1975 respectively, and PhD in Engineering from the University of California, Los Angeles in 1980. In 1996, he obtained his Masters of Science in the Management of Technology from Stevens Institute of Technology, Hoboken, NJ.

Dr. Sherif is a senior member of the IEEE, a member of Sigma XI, a Certified Project Management from the Project Management Institute, a member of the *Awards and Recognition working committee of the AT&T Project Management Council* and a member of the evaluation committee for the *Commission on Science and Technology, State of New Jersey*, reviewing pre-proposals for the R&D Excellence Program. Since 1993, he has been a standards editor for the *IEEE Communications Magazine*. In 2000, he was appointed to the board of the *IEEE Press* as the representative of the IEEE Communications Society.

He is a recognized international expert on standards for packetized voice and

digital signal processing in transmission equipment. He was a major contributor to the following key ITU recommendations: 1) ADPCM G.726/G.727 which are used in many telecommunications network applications, 2) G.764/G.765 which are the benchmark for voice packetization and compression in telecommunications network equipment, 3) G.511 for testing facsimile processing network equipment and 4) G.720 which is the standard method for testing voice coders with data signals. He has also been the main contributor to Committee T1 reports on voice packetization and echo cancellation. He is currently one of AT&T participants at the ATM Forum. He was awarded the AT&T Labs Standards Award by the President of AT&T Labs in 1998. This year, he was invited as a speaker at the ITU Megacom-2004 symposium in April 2001 to advise the study group 16 on its future work plan.

He is a founding member of the series of conference on International Conference on the Management of Technology sponsored by the International Association for the Management of Technology. He was invited on several occasions by the National Science Foundation to participate in its activities on innovation and technology management. He is also a founding member of the IEEE International Symposium on Computers and Communications and was the co-general chair of the 2000 Symposium. He has been the guest editor for *Speech Communications* (June 1993) and the *IEEE Communications Magazine* (September 1997 and April 2001).

He is the author of the best seller *Protocols for Secure Electronic Commerce*, CRC Press, 2000, now in its second printing. The French version was published by Eyrolles, France under the title *La Monnaie électronique* and is co-authored with Professor A. Sehrouchni.

All Welcome!

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

Time: 7:00 - 9:00 PM, Thursday, November 15, 2001.

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

Information: Wayne Owens, (201) 767-3400 x226 (wowens@ieee.org).

2002 Officer Ballot

Instructions for Casting Ballots

Completed ballots should be mailed to the North Jersey Section Secretary as follows:

Wayne Owens
IEEE North Jersey Section Secretary
554 Gilbert Ave
Pearl River, NY 10965-3320

The ballot MUST be filled out completely with members name, membership number, and signature. The ballots are invalid without this information. Xerox copies of the ballot are acceptable as long as they are filled out completely. Ballots received after November 30, 2001, will not be counted.

Chairperson: (choose one)

.....Nirwan Ansari

..... (write-in) _____

Vice Chairman-1: (choose one)

.....Rodney Cole

..... (write-in) _____

Vice Chairman-2: (choose one)

.....Milton Korn

..... (write-in) _____

Treasurer: (choose one)

.....Durga Misra

..... (write-in) _____

Secretary: (choose one)

..... Wayne Owens

..... (write-in) _____

Members-At-Large: (choose three)

.....Bhanu Chivakula

..... Naz Simonelli

..... Richard Snyder

..... (write-in) _____

Member Name _____ Member No. _____

Signature

Date

Electric Power Cables

A One-Day IEEE Seminar

Presented by the North Jersey Section IAS and PES Chapters

December 7, 2001

9:00 AM to 3:00 PM

The PES & IAS Chapters will sponsor a daytime seminar on the design, operations, testing, electric characteristics and failure modes of medium and low voltage electric power cables. Topics to be covered in the session include:

- 1) Conductor Physical and Electrical Properties – Copper & Aluminum materials
- 2) Insulation Systems – Low Voltage & High Voltage Cables
- 3) Cable Shielding – Tapes, Wires & Other Options
- 4) Jacket Materials
- 5) Cable Standards & Specifications
- 6) Cable Characteristics – Resistance, Inductance, Capacitance, Stress Distributions
- 7) Ampacity Calculations – Dielectric Loss, Conductor Loss & Shield Loss

The seminar leader is Lawrence Kelly who has an extensive career in the wire and cable industry. His background includes cable manufacturing, research and engineering assignments. He served as Director of Engineering Development at Okonite Cable. He is past Chairman of the IEEE Insulated Conductor Committee (ICC) and a voting member on the National Electric Code (NEC). He has also taught Cable Engineering Courses at UCLA and the University of Wisconsin.

LOCATION:	GPU Energy, 300 Madison Avenue, Morristown NJ. Directions: Route 287 to Route 124 Exit in Morristown. Follow signs toward Madison, GPU is about 1.5 miles on the left side.
COST:	Registration fee for the seminar prior to November 15 th is \$150 (non-IEEE members), \$100 (IEEE Members), and \$25 (Students with valid ID). Registrations received after November 15 th must include a late fee of \$25.00. The Seminar fee includes lunch and break refreshments.
INFORMATION:	R. V. Rebbapragada, Washington Group, International, 510 Carnegie Center, Princeton, NJ 08540, phone 609-720-3209, e-mail r.rebbapragada@ieee.org

REGISTRATION – Electric Power Cables, December 7, 2001

Reserve your place by mailing a check payable to "IEEE North Jersey Section" to: Ken Oexle
11 Deerfield Road
Whippany, NJ 07981

Name _____

Address _____

Phone _____ Email _____

IEEE # _____ Student @ _____ Non IEEE _____

Payment Enclosed \$ _____ Add \$25 late registration fee after November 15th