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

NJ Consultants' Network:

Designing Effective Websites

The IEEE Consultant's Network of Northern New Jersey (CNNNJ) will present a program on "Building Effective Web Sites" by Mike Chamberlain and Dave Rogers on Thursday, April 29, 1999.

About the Talk

Increasingly we in the consulting engineering and technical communication professions are turning to the Web to present our service offerings and expertise to the buying public. After several hours or days of design/development effort, we upload our HTML files to our ISP server and wait for the calls and e-mail messages to come flooding in. Our friends and colleagues compliment us on our clever site and assure us it is going to bring in a ton of business. Weeks or months later, after reality sets in, we want to know what went wrong.

Mike and Dave will discuss what can make a consultant's web site successful or fall short of expectations. The discussion will cover content, look and feel, and the functional aspects of good and bad web site design -- from a small business marketing perspective. Mike will focus on content basics and overall web site content design. Dave will cover various web technologies, applications, and the effective use of graphics for non-professional web site developers.

About the Speakers

Mike and Barbara Chamberlain head Inc., NetImpact marketing а communications services company in Tewksbury, NJ. NetImpact provides integrated business consulting and marketing communication services to a broad range of enterprises. Mike is a graduate of Boston University with a Masters in Industrial Administration from Union College. For the last eight years, Mike has been president of CIMCO, a strategic business and financial services firm. Through NetImpact, Mike brings his expertise to enterprises that want to take advantage of the Internet.

In addition to working on web development projects with NetImpact, for

the past fifteen months, Dave has been a core developer for one of the world's first and largest intranets (at Lucent Technologies). He is a graduate of Rutgers University with a bachelors degree in Political Science and a Masters in Urban Planning and Policy.

Joint Meeting with STC -- All are Welcome!

The meeting will be jointly presented with the On-Line Special Interest Group of the Society for Technical Communication, New York Metro Chapter. You do not have to be a member of either organization to attend. Come and bring your friends.

Time: 7:30 PM, Thursday, April 29, 1999.

Place: GEC-Marconi, Hazeltine Plant 18, at 150 Parish Drive, Wayne, NJ (973-386-8645).

Information: David Greenspan 973-386-8645.

NJ EDS, C&S, and VTS Chapters:

Low Voltage Microwave Electronics

On April 14, 1999, the IEEE NJ Section Electron Devices, Circuits and Systems, and Vehicular Technology Society Chapters together with the New Jersey Institute of Technology will host a talk on "Low Voltage Microwave Electronics." The speaker will be Dr. Mike Golio.

About the Talk

The presentation provides an overview of the low voltage/low power electronics developments and issues for portable wireless applications. Issues related to the development of low voltage products that will be discussed include:

semiconductor material choice, device technology choice, device modeling, circuit approaches, and system architec-Finally, key issues that will determine the lower limits that can be achieved in DC power and voltage reductions are discussed. The basic components required for wireless applications (both commercial and military) are undergoing a revolutionary change in terms of their DC power consumption. Key drivers for this change include longer battery lifetime and reduced weight and size. In order to increase battery lifetime, the power consumption of the individual components must be reduced. present, the single largest volume and weight component in most portable electronics products is the battery. Therefore, a major impact on the mass and volume can be made by reducing the supply voltage (number of battery cells required) while simultaneously reducing power consumption (battery cell volume and weight).

About the Speaker

Michael Golio is the Technical Director of MMIC Design at Rockwell Collins. His work focuses on technical planning and direction of the development of MMICs for commercial and military avionics, GPS, and wireless applications.

All Welcome!

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

Time: 7:00 PM, Wednesday, April 14, 1999. Free buffet will be starting at 6:15 PM

Place: NJIT, Room 202, ECE Building, Newark, NJ.

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

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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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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 Milton Korn (973) 365-2757, miltonkorn@aol.com.

Vehicular Technology Society:

Mobile Agents for Wireless

Communications

The North Jersey Chapter of the IEEE Vehicular Technology Society will host a talk by Dr. Patricia Morreale on April 6, 1999. The topic will be "Mobile Agents for Wireless Communications."

About the Talk

The widespread adoption of wireless communication systems is a triumph of telecommunications engineering networking. However, as wireless communications devices become more common, the demand for services and applications to the wireless systems, including PCS, increases. Whether it be for personalized voice services, or multimedia presentation, the wireless environment demands the same service level as the wired environment. The limited bandwidth available for the delivery of these services and the high user expectations for such services presents a stark contrast. How can advanced multimedia and network services be presented in a bandwidth environment constrained without perceptible quality loss? A discussion of the challenges in providing outstanding service in a diminished delivery environment will be presented, and the use of mobile agents as a means for circumventing delivery limitations will be discussed. The use of anticipatory pre fetch algorithms and the potential image on wireless network management will be introduced.

About the Speaker

Dr. Patricia Morreale is Director of the Advanced Telecommunications Institute (ATI) and a research professor in the School of Applied Sciences and Liberal Arts at Stevens Institute of Technology. Since joining Stevens in 1995, she has established the Multimedia Laboratory at ATI and continued the work of the Interoperable Networks Lab in HQ-ATM, mobility management, wireless system design, and mobile agents. ATI's research agenda has led to commercial system development in distance learning, electronic commerce, ATM switch design, and real-time distributed agents.

Professor Morreale holds a BS in Computer Science from Northwestern University, a MS in Computer Science from University of Missouri, and a PhD in Computer Science from Illinois Institute of Technology. Before joining academe, she worked in industry in telecommunications management and network design. Dr. Morreale has been a consultant on a number of government

and industrial projects. She has published numerous papers and holds a patent in distributed system design.

Professor Morreale's research has been funded by the US Navy, US Air Force, Allied Signal, AT&T Research, Lucent Technologies, Bell Atlantic and the New Jersey Commission on Science and Technology. She is a member of the Association for Computing Machinery and is a Senior Member of Institute of Electrical and Electronic Engineers.

All Welcome!

You don't have to be an IEEE member to attend. Please bring your friends. There is no need to register in advance. Light refreshments will be served.

Time: 7:00 PM, Tuesday, April 6, 1999. **Place:** To be determined. See the North Jersey Section Home Page at http://www-ec.njit.edu/~ieeenj/

Information: For more information, please contact Mel Lewis (914) 964-3820 or Art Greenberg (973) 492-1207.

Attention Past Section Chairs!

We are attempting to contact all former Section Chairs – North Jersey to invite them to a special event to recognize their contributions to the success of the North Jersey Section over the past 40 years. To date we have located all the chairs except for the following:

Alanson W. Parkes, 1961-3 Charles W. Vadersen, 1963-4 John K. Redmon, 1964-5 Walter L. Glomab, 1965-6 Stephen A. Mallard, 1966-7 Bernard Meyer, 1967-8 Joseph O'Gradv, 1968-9 Merle M. Irvine, 1969-70 Herbert C. Blaicher Jr., 1970-1 Robert Sokalski, 1971-2 Carl Torell, 1972-3 Harlan J. Perlis, 1973-4 Max J. Schindler, 1974-5 Dr. Robert E. McMillan, 1975-6 Frank Gialanella, 1976-7 Norman Bleshman, 1977-8 Donald G. Bathke, 1978-9

If you can help us in our search please contact:: North Jersey Section Chair Fred Chichester at (973) 744-3065.

Internet and Broadband Services Access

On April 23rd the IEEE Mid-Hudson and North Jersey Sections will jointly sponsor a presentation on "Internet and Broadband Services Access" by Mehmet Toy, John A. Mattessich, Perry Good, William J. Babin and Che-min Hsieh of Fujitsu Network Communications in Pearl River, NY.

About the Talk

Advances in computing have been driving demand for high bandwidth at the access and backbone of public and private networks. Access systems are the key components of the networks providing high bandwidth in both data and voice services. In this presentation Fujitsu Network Communications, (FNC), engineers will describe access systems that they are currently developing. They will demonstrate systems that FNC has developed and discuss their future plans. The structure of the presentation will be as follows.

- Dr. Toy, Senior Manager of Systems Engineering, will present a 30-minute talk on internet/broadband services access alternatives and FNC products. This portion will focus on access products being developed for business and residential customers at FNC's Pearl River facility.
- Mr. Mattessich, Senior Hardware Manager and MR. Good, Senior System Test Engineer, will present a 20-minute demonstration of the Fujitsu FASTLANE access multiplexer for business customers.
- Mr. Babin, Senior Hardware Manager, and Mr. Hsieh, Principal Software Engineer, will present a 20minute demonstration of the Fujitsu PON system for business and residential customers.

About the Speaker

Dr. Toy received BSEE and MSEE degrees from Istanbul Technical University in Turkey and a PhD from Stevens Institute of Technology. As a Senior Manager at Fujitsu Network Communications, where he has been employed since 1997, he is directing research and development of data networking access products. During the prior 13 years he conducted research and development of transmission and data networking products and services at Bell Laboratories. For two years prior to this he was an Assistant Professor of Electrical Engineering at the University of North Carolina. Dr. Toy has edited the book, "ATM Development and Applications", and developed the IEEE video, "ATM Switching System

North Jersey Section Activities April 1999

Mar. 30–"Design of Low Noise Microwave Synthesizer" – MTT/S/AP-S Chapter, 6:30 PM (free refreshments starting at 6:00 PM), NJIT, Room 202, ECE Building, Newark, NJ. Reservations, questions or directions: Dr. Chandra Gupta (973) 633-4469 (Marconi Aerospace), Dr. Edip Niver (973) 596-3542 (NJIT), or Willie Schmidt (973) 492-0371.

Apr. 6—"Mobile Agents for Wireless Communications" — NJ Chapter VTS, 7:00 PM, location and time TBD. Mel Lewis (914) 964-3820 (m.lewis@ieee.org) or Art Greenberg (973) 492-1207 (a.h.greenberg@ieee.org).

Apr. 7-"NJ Section Executive Committee Meeting" – 7:00 PM, ITT, 100 Kingsland Road, Clifton, NJ. Milton Korn (973) 365-2757 or miltonkorn@aol.com.

Apr. 14—"Low Voltage Microwave Electronics" — EDS/C&S Chapters, 7:00 PM, NJIT, Room 202, ECE Building, Newark, NJ. Dr. Richard Snyder (973) 492-1207 (RS Microwave), Dr. Dirga Misra (973) 596-5739 (dmisra@megahertz.njit.edu) or Dr. Edip Niver (973) 596-3542 (NJIT).

Apr. 20—"National Electric Code and Uniform Construction Code Updates" – NJ IAS/PES Chapters, 7:00 PM, Dialogic, Inc., 1515 Route 10, Parsippany, NJ. Ken Oexle (973) 386-1156.

Apr. 21—"Adaptave Arrays for Cellular Systems" – NJ Communications Chapter, 4:30 PM (refreshments 4:15 PM), NJIT, 202 ECE Center, Newark, NJ. Hongya Ge (973) 642-4990 (hongya@megahertz.njit.edu). Please check http://www-ec.njit.edu/~ieeenj/cal99.html for latest updates.

Apr. 22—"Building the Next Generation Public Network" — registration at 8:30 AM, Con Edison, 19th floor, 4 Irving Place, NY, NY. Jim Barbera via fax at (212) 465-8877 or Dimitar Georgievski (212) 963-4946.

Apr. 23—"Internet and Broadband Services Access" – 7:00 PM, Fujitsu Network Communications, 2 Blue Hill Plaza, 6th Floor, Pearl River, NY.

Apr. 25—"NJ Section Awards Reception"—3:00 to 5:00 PM at the Birchwood Manor, 111 North Jefferson Road, Whippany, NJ. Anne Giedlinski (973) 377-3175.

Apr. 29-"Designing Effective Websites" - NJ Consultants' Network, 7:30 PM, GEC-Marconi, Hazeltine Plant 18, at 150 Parish Drive, Wayne, NJ. David Greenspan 973- 386-8645.

Upcoming Meetings

May 5—"NJ Section Executive Committee Meeting" – 7:00 PM, ITT, 100 Kingsland Road, Clifton, NJ. Milton Korn (973) 365-2757 or miltonkorn@aol.com.

May 25-June 24—"Internet Programming/Web Application Development" — North Jersey Section, Tuesday and Thursday Evenings, 10 sessions, 6:30-9:00 PM, GEC-Marconi, Plant 11, 164 Totowa Rd, Totowa NJ. Bhanu Chivakula (973) 751-4879 (leave message) or Gabe Silberman at silberman@ieee.org.

June 16—"Load Aggregation in a Deregulated Utility Environment" – NJ IAS/PES Chapters, 7:00 PM, Dialogic, Inc., 1515 Route 10, Parsippany, NJ. Ken Oexle (973) 386-1156.

Members and Non-Members Welcome

PLEASE POST

Management via Open Interfaces". He is a member of the editorial board of IEEE Network and has published articles in data networking and signal processing.

Time: 7:00 PM, Friday, April 23, 1999.

Place: Fujitsu Network Communications, 2 Blue Hill Plaza, 6th Floor, Pearl River, NY.

Directions: Garden State Parkway north to the NY State Thruway east. Exit at 13S (Palisades Parkway South). Exit at 6W to Orangeburg Road which flows into Veteran's Memorial Drive. Go approximately 2 miles. Blue Hill Plaza is on the left across from the Pearl River Hilton. At the Plaza park in Area G, in front of Two Blue Hill Plaza and go to the 6th Floor.

NJ PES/IAS:

National Electric Code and Uniform Construction Code Updates

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

Time: 7:00 PM, April 20, 1999.

Place: Dialogic, 1515 Route 10 (East bound from Route 202), Parsippany, NJ. **Information:** Ken Oexle 973-386-1156.

1999 IEEE NORTH JERSEY FELLOWS

J. Carl Hsu

"For leadership in the field of communication switching and network systems"

Photo of Carl Hsu

Carl Hsu is currently Chief Operating Officer, Communications Software Group (CSG) at Lucent Technologies and Vice President, Bell Labs, China. Mr. Hsu is responsible for the direction and implementation of all operational issues within the Communications Software Group. Prior to his current assignment, Mr. Hsu was Acting Group President. Mr. Hsu established the strategy and direction for the business, rebuilt the leadership team, and produced more revenue and operating income growth than the previous five years combined. Since beginning his career at Bell Laboratories in 1971, after receiving his PhD in Computer Science from UCLA, he has held a wide range of large telecommunications system development responsibilities.

Prior to his current assignment, Mr. Hsu Vice President. Advanced Technologies at Bell Laboratories, Lucent Technologies. Previously, he served as Toll Switching, Voice and Signaling Produce Group Vice President, Network Systems Group, with responsibility for products including the 4ESS® Switching System and the New Network Switch signaling, database, (NNS), intelligent network products that form the Broadband Switching Laboratory, Network Systems Group and also Program Manager for the 1B24 processor program. Other previous assignments included Director, Switching Technology Development Laboratory, Network Systems Group, and Director 5ESS® Laboratory. He also held Department Head positions in the Data Switching Development Department and Computing Technology Department.

Mr. Hsu was a founding member and past president of the Mid-American Chinese Science and Technology Association. He also served in leadership positions for many other Chinese-American organizations and was a well-known Chinese-American business and technological leader.

Among his honors, Mr. Hsu was the recipient of the Mid-American Chinese Science and Technology Association Distinguished Leadership Award in 1984, the Chinese Institute of Engineers/USA Achievement Award in 1987, and the Bell Laboratories Switching Leadership Award in 1987. He also received the Bell Laboratories President's Quality Award in 1993 and in 1995, the 4A National Recognition Award in 1995, the Institute's 1996 International Project of the Year Award for the 1B Project. In addition, he received the outstanding Achievement Award in 1998. was appointed Senior Consultant for High-Tech R&D at the Chinese Academy of Sciences in 1998, and was named an IEEE Fellow in 1999.

Mr. Hsu received his BSEE from National Taiwan University, and his MS and PhD degrees in Computer Science at UCLA.

Ira J. Pitel

"For contributions to the advancement of power conditioning and harmonic mitigation techniques in industry applications."

Ira J. Pitel received his BS degree from Rutgers – The State University of New Jersey, MS degree from Buchnell University, and PhD degree from Carnegie-Mellon University in 1972, 1975 and 1978, respectively.

From 1973 to 1976, he worked for GTE Sylvania researching high-frequency ballasting techniques for gaseous discharge lighting. He joined Bell Laboratories in 1978 and Exxon Enterprises in 1979. At Exxon, he was involved in high-power converter structures for AC motor drives, power

processing and advanced batterv systems, and controlled lighting. He was eventually transferred to one of Exxon's subsidiaries, Cornell-Dubilier Electronics, where he was Manager of Research and Development. In 1981, he founded Magna-Power Electronics, a company specializing in custom and standard power conditioning products. President, he is responsible for contract R&D and manufacturing of its line of 10-750 kW DC power supplies. In 1986, he joined Texas A&M University as an Adjunct Associate Professor. His research interests are high-power AC to DC converters, static inverters, spacecraft power supplies, and specialty lighting controls.

Dr. Pitel holds 21 patents in the field of power electronics and is co-recipient of the 1995 Society Prize Paper Award of the Industry Applications Society. He has served as Committee Chairman of the IAS Industrial Power Converter Committee in 1988-89, Department Vice President in 1998 and 1999, respectively. He is a member of the Eta Kappa Nu and Tau Beta Pi.

Photo of Ira J. Pitel

PES Meritorious Service Award

Virginia C. Sulzberger

"For her outstanding leadership and contributions to the administrative, educational and technical activities of the IEEE Power Engineering Society"

Photo of Virginia Sulzberger

Virginia C. Sulzberger's involvement with the Power Engineering Society began in 1969 with memberships on the Power System Engineering Committee and its Application of Probability Methods Subcommittee. She joined the Energy Development Subcommittee of the Power Generation Committee in 1974, becoming Secretary in 1976, Vice Chair in 1978, and Chair from 1980 until 1982. She continued her involvement in the subcommittee until 1988. Concurrently, she served as a member of the Power Generation Committee. Presently, the

Development

Generation Committee lists her as an

and

Power

Energy

Honorary Member.

Virginia has been actively involved in the governance of the Society, serving on the Governing Board for twelve years. For three years – from 1986 to 1988 – she served as a Member-At-Large. She then chaired the Constitution & bylaws Committee from 1989 to 1993. She was constantly vigilant in ensuring the Board was following the guiding rules and principles of the Society as specified in the Constitution and Bylaws. Finally, she applied her management and analytical skills in serving PEC as Treasurer from 1994 to 1997.

Virginia Sulzberger has also chaired the PEC Finance Committee, served on the PEC Executive Committee, the PES Editorial Board, and the Computer Applications in Power Magazine Editorial Board. Virginia joined the IEEE in 1963 as a Member, became a Senior Member in 1976, and was elected a Fellow in 1990. She has also been active in CIGRE (the International Conference on Large High Voltage Electric Systems) serving as a vice president of the US National Committee.

Virginia's electrical engineering career began at Public Service Electric & Gas Company, where she held various engineering and management positions, including Manager of Transmission Planning and Manager of Advanced System Planning. She then joined Exxon Enterprises as a Senior Planning Advisor. She moved to the North American Electric Reliability Council (NERC) in 1985 and presently holds the position of Director of Engineering. She earned BSEE and MSEE degrees from the New Jersey Institute of Technology. She is a member of Eta Kappa Nu and Tau Beta Pi.

Student Paper Night Concluded

On Saturday, February 20, the North Jersey Section conducted the annual student paper presentation contest. It was held at the Howe Center of Stevens Institute of Technology in Hoboken, NJ.

This year's presentations were exciting as last years, but attendance was lower. Presentations were given by: Manu Tandon on "The Construction of a Disaster Recovery Site", Dennis Hromin, on "Portable MPEG Layer 3 Player", and a guest speaker, Vishal Gupta, on "How to Effectively Start and Manage a Business." Manu Tandon won first place (\$100) and Dennis Hromin won second place (\$75), both qualifying to participate in the Region I Paper Contest. Our guest speaker received an honorable mention.

Manu Tandon will be attending the conference on April 18th at Merrimack College, Mass (http://www.geocities.com/ResearchTriangle/Lab/7722) to present his paper.

Additional thanks go to North Jersey Section volunteers Mel Lewis, and Chandra Gupta who helped judge the competition. Other attendees also filled out comment sheets which were collected and delivered to the participants. The primary goal being to students develop their communication skills through constructive

The North Jersey Section Presentation

contest will be again held next year in mid to late February. Greater participation is hoped and the call for presentations will start early in November 1999. All North Jersey undergraduates who are IEEE members are eligible to participate for prizes.

Below are the abstracts of all participants:

Manu Tandon - Stevens Institute of Technology.

Title: Construction of a Disaster Recovery Site.

Abstract: G.X. Clarke and Co. (GXC) are government bonds and securities traders. A disaster Recovery Site (DRS) for GXC will enable GXC to carry out business in the event that their primary offices are inaccessible for business. The disaster recovery site will replicate infrastructure needed for GXC to conduct its business for a short period of time.

The DRS will also have the additional capability of being expanded into a long-term office. As part of the project the team conducted research, designed and cost-analyzed various options available for the implementation of the DRS. These options along with the budgets, were then presented to the partners of GXC for approval. Once the budget was approved the site will be implemented and tested.

Dennis Hromin - Stevens Institute of Technology.

Title: Portable MPEG Layer 3 (MP3) Player

Abstract: MPEG Layer 3 is an audio compression technique used for playing CD quality music on high capacity media such as hard drives and CD-ROMS. This presentation is based on plans to build a portable MP3 player that uses a harddisk or CDROM as opposed to flash RAM along with an MPEG Layer 2/3 Decoder Chip, a DAC, and a microcontroller with LCD interface.

Vishal Gupta - Wayne Valley High School.

Title: How to Effectively Start and Manage a Business

Abstract: Effectively starting and managing a business is an important topic deserving of discussion for many fields of study such as industry or technology. In order to start a business, an efficient business plan must be devised. Marketing, demographics, business type, and capital raising techniques are all intricate and necessary considerations that must be taken in order to begin a business.

IEEE North Jersey Section Course Internet Programming/Web Application Development

Tuesday and Thursday Evenings, May 25 through June 24, 1999 (May 25, 27, June 1,3,8,10,15,17,22, and 24)
GEC Marconi, Plant 11, 164 Totowa Road, Totowa, NJ
(Checks **should not** be mailed to this address)

The IEEE is offering an evening course entitled "Internet Programming/Web Application Development." The course will run for 5 weeks. Each session will run for 2 ½ hours with a short break approximately in the middle.

- Anyone who is interested in developing web sites
- Windows programmers making a transition to Internet technology
- Database personnel wanting to migrate to web development using web servers

TOPICS

- Fundamentals of Internet/Intranet
- HTML(HyperText Markup Language)
- ♦ FrontPage97/98 and other HTML editors
- ♦ Extensive use of Graphics/Image tools
- ♦ Integrate Multimedia in Web Pages
- Database Concepts MS Access and MS SQLServer
- Database Integration with Web Applications
- Application Development : Introduction to JavaScript & VB Script
- ♦ Designing an Effective Web Site

Class size will be limited to a maximum of 25 with a minimum of 15. Early registration is recommended. Phone reservations will NOT be accepted. Applications postmarked after May 14th will require an additional late fee of \$25. No applications accepted after May 18.

WHERE: GEC-Marconi, Plant 11, 164 Totowa Rd, Totowa NJ. (Checks should not be mailed to this address)

WHEN: Tuesdays and Thursdays:: May 25 through June 24 1999 - 6:30-9:00 PM

COST: IEEE members \$250; Non-members \$350

CONTACT: Bhanu Chivakula (973) 751-4879 (leave message) or Gabe Silberman at silberman@ieee.org.

REGISTRATION: Internet Programming/Web Application Development

To: Mr. Naz Simonelli, 68 Woodmont Drive, Randolph, NJ 07869-3740 (Checks should be mailed to this address)					
Name: / Mr. / Mrs. / Miss / Ms. / Nonmember					
IEEE Member Member #:	Member of	technical society			
Employer:					
Address:					
Home Address:					
Business (day) telephone #:	Home telephone #:				
Please enclose required fee payable to: North Je Registration status will be mailed after May 14, 199 effective date of the application corresponds to the d	99. Phone inquiries concerning registration				
Tuition receipt will be mailed only if this box is ch	ecked Signature:				

THE NEW YORK CHAPTER

of

THE IEEE COMMUNICATIONS SOCIETY

sponsors a full-day conference on

BUILDING THE NEXT GENERATION PUBLIC NETWORK

Thursday, April 22, 1999, Registration 8:30 to 9:00 AM, Seminar 9:00 AM to 4:15 PM The 19th Floor Auditorium at Consolidated Edison, 4 Irving Place, New York, New York

This one day conference will focus on selected technologies and the alternative strategies being explored by a broad range of service providers who plan to successfully deliver *next generation* data, voice and video services demanded by Internet/intranet end-users.

Transport, switching, provisioning and loop technology/strategy, will be presented by experts, whom these service providers are depending upon, to develop technology that will, in some cases, transform an existing incumbent local exchange carrier or permit a small burgeoning start-up the opportunity to make-it in the forthcoming bandwidth-rich environment.

Paper	Speaker	Position	Company
Keynote Speaker:	George Dobrowski, Director,	Broadband Switching & Signaling	Bell Communications Research,
The Next Generation Public		Technology	Inc. (Bellcore).
Switched Telephone Networks (PSTN)			
Bell Atlantic Target Network Architecture	Joseph A. Gansert, Executive Director	Network Architecture Planning	Bell Atlantic
The New World of Competitive Local Exchange Carriers (CLECs)	George Holland, President and General Manager,	New York Office	Covad Communications Co.
Voice over IP (Internet Protocol)	Lior Haramaty, Co-Founder and Vice President	Technical Marketing - North America	VocalTec Communications
ATM (Asynchronous Transfer Mode) vs. IP (Internet Protocol)	Chris Metz, Consulting Systems Engineer		Cisco Systems
SONET (Synchronous Optical Network) vs. IP (Internet Protocol) over DWDM (Dense Wave Division Multiplexing)	Lee Dayton, Vice President	Transmission Systems	Fujitsu
Transforming Circuit Switched Infrastructure to a Packet, IP Optimized Network	Grahame Rance, Vice President and General Manager	Next Generation Networks	Nortel Networks

For more information contact:

Jim Barbera at fax (212) 465-8877, e-mail j.p.barbera@ieee.org, or Dimitar Georgievski, telephone (212) 963-4946, e-mail georgievski.unprofor@un.org, or visit Upcoming Events at our website at URL http://www.comsoc.org/socstr/chptrs/NYC/

Registration fee, including lunch and snacks:	IEEE member	\$150
	Student	\$35
	Other	\$175

Registration:

Complete the following form and send it to Robert E. Puttre, 637 Stratford Road, Baldwin, NY 11510-1031 together with your check made out to **NY IEEE COMSOC**, or company purchase order.

IEEE AWARDS RECEPTION

North Jersey Section April 25, 1999 Birchwood Manor, Whippany NJ

A time to relax, unwind and enjoy -A time to pay tribute to our new Fellows -A time to honor our Award Winners -YES it's time for the Annual Section Reception

The Annual Section IEEE Awards Reception will be held at the Birchwood Manor, 111 North Jefferson Road, Whippany again this year. The affair is scheduled for **Sunday, April 25, 1999** from 3 to 5 PM. Tickets are \$35.00 each and include a complete prepaid, two-hour open bar, hors d'oevres, buffet, and dessert. Spouses and guests are welcome. We are limited to <u>90</u> attendees, so please make your reservations early.

Reservations are required by April 17, 1999. Complete the reservation form and return it with your payment. If you would like tickets mailed back to you, please enclose a self-addressed stamped envelope. Otherwise, your tickets will be held at the door for you. If any additional information is required concerning the reception, contact Anne Giedlinski at (973) 377-3175.

Use this form for Reception reservations. ENCLOSE A SELF-ADDRESSED STAMPED ENVELOPE to receive tickets in advance. Reservations are required by April 17, 1999. Mail reservation request to:

Anne Giedlinski
299 Brooklake Road
Florham Park, NJ 07932

Enclosed is ______ for _____ ticket(s) at \$35.00 each (make check payable to North Jersey Section IEEE) for:

NAME: _______
ADDRESS: ______