



The IEEE

Newsletter

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

'96 Section Election Notice

The Nominations Committee has nominated the following to serve as 1996 officers of the North Jersey Section Administrative Committee (ADCOM):

Chairperson:	Vittal Rebbapragada
Vice Chairman-1:	Art Greenberg
Vice Chairman-2:	Mel Lewis
Treasurer:	Fred Chichester
Secretary:	Sergei Bogaenko
Members-At-Large (3):	Ted Byrne
	Haim Grebel
	Amy Bissmeyer

All have indicated that they will serve in the positions nominated.

The official election of officers will take place in December. IEEE members in good standing may nominate an IEEE member or themselves for any of these positions. The term of office is: 1 January 1996 to 31 December 1996 (1 year term).

Petition Nominations

Nominations in addition to those made by the Nominating Committee may be made by petition from the membership. Such nominations must be signed by not fewer than 25 voting members of the North Jersey Section and transmitted to the Section Secretary for submission to the Executive Committee not later than **November 24, 1995**. The petition must certify that the person(s) nominated have agreed to serve, if elected.

NJ PES/IAS:

Flywheel Energy Storage In Electric Utility Applications

The NJ Power Engineering/Industrial Application Society Chapters will meet on November 8, 1995 (please note this rescheduled meeting date from the last issue). The topic will be "Fly-wheel Energy Storage In Electric Utility Applications." The speaker will be John Price.

About The Talk

Flywheel battery technology is poised to play a revolutionary role in both electric vehicles and utility infrastructure development. The evolving technology will allow power generation combustion processes to be operated at optimum efficiency, enable effective exploitation

of renewable energy sources, and provide point of service solutions to power quality problems experienced by utility customers with increasingly sensitive loads.

About The Speaker

John Price is a member of the University of Texas Center for Electromechanics Senior Engineering Staff. He is Co-Principal Investigator on a recently awarded contract to develop a flywheel-battery-based advanced locomotive propulsion system for the Department of Transportation. He is also leading efforts to develop electric utility applications for flywheel energy storage systems.

Time: 7:00 PM, Wednesday, November 8, 1995.

Place: Jersey Central Power & Light Co., 300 Madison Ave., Morristown, N.J.

Information: Ken Oexle (201) 455-8481.

IEEE North Jersey and New Jersey Coast Sections MTT-S/AP-S/ED-S Chapter

presents

11th ANNUAL SYMPOSIUM and MINI-SHOW Lectures and Booth Exhibits

FOCUS: MICROWAVES FOR WIRELESS COMMUNICATIONS

Thursday, November 30, 1995 - 1:30 to 8:30 PM

Location:

Officer's Club Fort Monmouth, Fort Monmouth, NJ

(For more details see page 5)

ALL WELCOME!

**YOU DO NOT HAVE TO BE AN IEEE MEMBER TO
ATTEND - FREE DINNER PROVIDED**

For more information, reservations, directions or questions call:

Chandra Gupta (201) 633-4469 (GEC-Marconi);

Willie Schmidt (201) 492-0371;

Arthur Paoletta (908) 427-2825 (CECOM Ft. Monmouth);

or Dana Sturzebecher (908) 427-4640 (ARL Ft. Monmouth)

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NEWSLETTER STAFF

Editor M.M. Perugini
Business Manager A.M. Beattie

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 addressed to: The IEEE Newsletter, c/o Girard Associates, Inc., 6 Robert Terrace, P.O. Box 455, Mt. Arlington, N.J. 07856 (201) 398-5524.

IEEE North Jersey Bulletin Board System:

0 TO 9600 baud, 8 bits, no parity, 1 stop bit. BBS phone number 201 669-8268, or call 908 782-3522.

(Courtesy of United Societies of Engineering & Science of NJ, Inc.)

REPORT ADDRESS CHANGES TO:

IEEE Service Center, 445 Hoes Lane, P.O. Box 1331, Piscataway, NJ 08854-1331, (908) 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 in New York. This means the Section has no need to maintain a mailing list or addressing plates. Section membership records are changed when Headquarters notifies us.

SECTION OFFICERS

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Dr. Hiam Grebel
Dr. Chandra Gupta

The North Jersey Section Executive Committee usually meets the first Wednesday (except holidays and December) of each month at 7 PM. These meetings are open to all members. Information on meeting agenda is available from Dr. Fred Chichester (201) 744-7340.

NJ Section PACE: What's With The U.S. Defense Business?

The topic at the November 9, 1995 meeting of the NJ Section's Professional Activities Committee for Engineers will be "Commercialization Of The U.S. Defense Business. Is It Permanent Or A Temporary Aberration?" The speaker will be Eugene W. Niemiec and Anthony N. Ramsden of Merrimac Industries, Inc., West Caldwell, NJ.

About The Talk

The U.S. Defense Industry is undergoing major realignments and consolidations on an almost daily basis. Mergers and acquisitions abound and just keeping up with the players' names is a mind bending task, not to mention coping with the ramifications on our personal lives.

Conversion of defense industries to commercial business may be politically correct media hype today, but is it viable or even necessary for all of us despite the fall of the "Evil Empire" and its so-called Peace Dividend?

With an unstable world and new radical thoughts going on in Washington, you may want to re-examine your position before jumping out of the frying pan and into the fire!

About The Speaker

Eugene W. Niemiec is president and CEO of Merrimac Industries, Inc. He received his EE degree from New Jersey Institute of Technology in 1962 and joined Merrimac in 1979 after a 17 year career at the ITT Defense Communica-

tions Division at Nutley, NJ, wherein he was engaged principally in their Microwave Advanced Development Group on numerous state-of-the art RF components and systems. He has dedicated his efforts at Merrimac to sales and manufacturing for profitable growth, technical superiority and quality. He, with former CEO, Paul Terranova, brought Merrimac public in 1982. He has been an active member of the IEEE Professional Society for over 20 years, having served various positions including Chairman of the North Jersey Section, IEEE; Chairman of the Microwave Theory & Techniques/Antenna and Propagation Society.

Anthony N. Ramsden, Vice President, Sales and Marketing at Merrimac Industries, earned an honours degree in Electronics from Southampton University in 1966. After five years with Marconi in England, Ramsden's career took him to their U.S. division for a further 14 years, working initially in Applications engineering, then later as their National Sales Manager. Ramsden, since joining Merrimac in 1986, has sought to update the Company's image and success with vigorous marketing of new products and the generation of a completely revised catalog.

All Welcome

You do not need to be an IEEE member to attend. All are welcome

Time: 7:30 PM, Thursday, November 9, 1995.

Place: JCP&L Co., 300 Madison Avenue and Punch Bowl Road, Morristown, N.J.

Information: Dr. Michael Liechenstein (201) 471-0721, or Dr. Robert Sinusas (201) 228-3941.

NJ Vehicular Technology Soc.: Wireless Communication Mini-Symposium

The Vehicular Technology Society is holding a one day "Wireless Communication" mini-symposium on Saturday, November 4 at the Meadowlands Hilton Hotel in Secaucus. There is no registration fee and the symposium is open to all.

For further information or directions call Art Greenberg at (201) 492-1207 or Mel Lewis at (914) 968-2500, ext. 2304.

NJ Computer Chapter: IEEE Plan For Internet Access

On November 16, 1995, the IEEE NJ Computer Chapter will present a talk on "IEEE Plan For Internet Access." The speaker will be Thomas Brisco.

About The Talk

The IEEE, working with volunteer members, has identified the need for cost-effective network access for IEEE member communication, permitting Member-to-Member communication, as well as allowing the dissemination of IEEE information to members and customers. In an attempt to address these identified needs, the IEEE proceeded to investigate the feasibility of offering our members such a new service. In recognition of the sensitivity to costs, the IEEE is striving to meet the challenge of providing a broad array of services, while maintaining a competitive price. The presentation will cover the options considered, and tradeoffs made in considering a variety of vendors for this project.

About The Speaker

Thomas P. Brisco, Director of Operations and Electronic Communications, IEEE Information Services, heads the two functionally differing departments, combined within the IS umbrella. Within Operations, he is responsible for the production database systems, Help Desk, PBX and Voice Systems, Networking, and PC support. Within Electronic Communications, he is responsible for the direction and articulation of electronic services in support of the IEEE Membership and customer base.

Prior to joining IEEE, Brisco was Associate Director for Telecommunications at Rutgers University, where he provided leadership for the University in the development and implementation of data communications goals for research, instruction, service, and administration.

Mr. Brisco dedicates much of his spare time assisting New Jersey State Agencies and Educational Institutions in the developing and implementing networking strategies. He holds a Bachelor's Degree in Computer Science from Rutgers University.

All Welcome

You do not need to be an IEEE member to attend. Please bring your friends.

Time: 7:30 PM, Thursday, November 16, 1995.

Place: JCP&L, Test Room, 300 Madison Ave., Morristown, N.J.

Information/Pre-Meeting Dinner: Howard Leach (201) 540-1283 (H), or (908) 906-0400 (W).

North Jersey Section Activities November

Nov. 1—"North Jersey Section Executive Committee Meeting"—7:00 PM, Plant 11, GEC-Marconi, 164 Totowa Road Totowa, NJ. Dr. Fred Chichester (201) 744-7340.

Nov. 4—"Mini-Symposium: Wireless Communication"—NJ Vehicular Technology Society, Meadowlands Hilton Hotel in Secaucus, NJ. For information call Art Greenberg (201) 492-1207 or Mel Lewis at (914) 968-2500, ext. 2304.

Nov. 8—"Flywheel Energy Storage In Electric Utility Applications"—Please note this new date. North Jersey PES/IAS, 7:00 PM, JCP&L Co., 300 Madison Avenue, Morristown, NJ. Ken Oexle (JCP&L) (201) 455-8481.

Nov. 9—"What's With The U.S. Defense Business"—NJ Section PACE, 7:30 PM, JCP&L Co. 300 Madison Ave. & Punch Bowl Rd., Morristown, NJ. Dr. Michael Liechenstein (201) 471-0721.

Nov. 14—"Bill Gates' COMDEX Keynote Address On Video"—IEEE NJ SMC Society Chapter, 7:00 PM, Fairleigh Dickinson Univ., Rm. M-207, Muscarelle Bldg., Teaneck Campus. Dr. M. Liechenstein (201) 471-0721.

Nov. 16—"IEEE Plan For Internet Access"—IEEE NJ Computer Chapter, 7:30 PM, JCP&L Co., Test Room, 300 Madison Ave., Morristown, NJ. Howard Leach (201) 540-1283 (H), (908) 906-0400 (W).

Nov. 16—"Diversity Of Electronic Displays And Their Future"—IEEE LEO Chapter, 5:00 PM, NJIT, Room 202, ECE Bldg., Newark, NJ. Haim Grebel (201) 596-3533.

Nov. 20—"Controlling Nonholonomic Systems"—NJ Control Systems Society, 6:30 PM, NJIT, John Howard Room, Hazell Ctr., 323 Dr. Martin Luther King, JR. Blvd., Newark, NJ. Tim Chang (201) 596-3519.

Nov. 21—"One-Day Tutorial: Protection Of Synchronous Generators"—North Jersey PES/IAS, JCP&L HQ., 300 Madison Ave., Morristown, NJ. Vital Rebbapragada (212) 839-1473.

Nov. 30—"11th Annual Symposium And Mini-Show"—MTT-S/AP-S Chapter, North Jersey & New Jersey Coast Sections, Officer's Club Ft. Monmouth, Ft. Monmouth, NJ. Chandra Gupta (201) 633-4469.

Nov. 30—"Intelligent Transportation Systems Seminar"—Education Committee New York Section, 9:00 AM-5:00 PM, Con Ed Co., 4 Irving Place, NYC. Jalal Gohari, (201) 648-8700, ext. 204.

Members and Non-Members Welcome PLEASE POST

Systems, Man & Cybernetics: **Bill Gates'** **COMDEX Keynote** **Address On Video**

At the November 14, 1995 meeting of the IEEE NJ SMC Society Chapter there will be a videotape presentation by Bill Gates, CEO of Microsoft Corporation, on where information technology is evolving and why. This presentation provides a penetrating perspective and prediction regarding information technology and has been widely acclaimed as an exemplary keynote address (originally aired via satellite at COMDEX fall '94).

All Welcome

You need not be a member of IEEE to attend and there is no charge for admission. Light refreshments will be served.

Time: 7:00 PM, Tuesday, November 14, 1995.

Place: Fairleigh Dickinson University, Room M-207, Muscarelle Bldg., Teaneck Campus.

Information: Dr. Michael Liechenstein (201) 471-0721, or Melvin Lewis (914) 968-2500, Ext. 2304.

IEEE LEO Chapter: **Diversity Of** **Electronic Displays** **And Their Future**

On November 16, 1995, the IEEE Laser and Electro Optics Chapter will present an overview of the various kinds of electronic displays. The speaker will be Allan R. Kmetz.

About The Talk

This talk will cover the progress made in flat-panel displays which are largely responsible for the recent flowering of the laptop computer industry. Display technology is a multidisciplinary science with a broad range of diverse applications but the flat TV that hangs on the wall remains a dream. Liquid-crystal displays are emphasized in keeping with their present importance as the overwhelming leader among flat panels; research contenders for the next display breakthrough will be mentioned.

About The Speaker

Allan R. Kmetz is a Distinguished Member of the Technical Staff in the Display Technology Research Department at AT&T Bell Laboratories, Murray Hill, NJ. He was educated at Yale University and worked on displays at Texas Instruments in Dallas and at Brown Boveri in Switzerland before joining Bell Labs in 1978. Dr. Kmetz is a fellow of the Society for Information Display and senior member of IEEE. Author of numerous technical

papers and editor of a book on displays, he holds 15 US and 45 foreign patents.

Time: 5:00 PM, Thursday, November 16, 1995. Pizza & Soda will be served free of charge at 6:45 PM.

Place: NJIT, Room 202, ECE Bldg., Newark, N.J.

Information:

Haim Grebel (201) 596-3533.

New York Section: **Intelligent** **Transportation** **Systems Seminar**

The Education Committee of the New York Section will hold a seminar on "Intelligent Transportation Systems (ITS)" on Thursday, November 30, 1995. The seminar is scheduled from 9:00 AM through 5:00 PM at the Auditorium on the 19th floor of the Consolidated Edison Company, 4 Irving Place, New York City, (corner of 14th and 4th Ave.).

This seminar addresses the varied aspects of the ITS program, starting with the overall architecture, as planned by the Jet Propulsion Laboratories, and undertaken by two contractors, and the ITS American company having the broad management of the multi-year effort. A major component of the ITS, supported primarily by the US Department of Transportation, will be the advanced technology development for collision avoidance, employing active and passive sensors; and consequent electronic control of the cars' velocity, to achieve constant separation distance between automobiles.

Another component will be the transmission to the driver of travel data,

including weather information and traffic conditions. An additional phase of the ITS will be the integration of Automated Toll into the highway path. Several RF Identification cards for the driver and the automobiles are being considered for this function.

This one day seminar will thus provide technology entrée to many engineers with a defense background and also to those with a power engineering background, as the ITS system will require engineering support from both these fields.

The Registration fee for the Seminar is \$50 before November 15, 1995, or \$55 after November 15th. Non IEEE members will be charged an additional \$5. All checks are to be made out to: IEEE/New York Section, and mailed to Jalal Gohari at: Parsons Brickerhoff Inc., 2 Gateway Center, Newark, NJ 07102. Phone: (201) 648-8700, ext. 204.

Stevens Needs **Instructors**

Stevens Institute of Technology is looking for part-time instructors to guide students in hands-on projects which involve designing, construction, and testing a product. Applicants must have design experience in mechanical, electrical, chemical, or civil engineering. Contact time with students will be three hours per design laboratory section per week for 14 weeks per semester.

Please send resume to: Mr. Vijay Shroff, Stevens Institute of Technology, Castle Point on Hudson, Hoboken, NJ 07030. Phone: (201) 216-8290; or Fax: (201) 216-8240.

Section Has World Wide Web Home Page

The North Jersey section of the IEEE now has a World Wide Web home page on the Internet.

You can access our site at the present time only via direct means, using the Uniform Resource Locator (URL): <http://hertz.njit.edu/~ieeenj>. Leave off the last period. We've applied to IEEE headquarters to have it linked to the IEEE home page (<http://www.ieee.org>), via the Region 1 home page.

At our web site, which is more than just a single "page", you will find (when it is fully operational in the next month or so) information on the upcoming technical, educational, professional, and administrative meetings. We'll be listing contact information for the entire executive committee and all the chapter officers. You'll be able to read, and even printout, the announcements of these meetings. You can browse through the event calendar for the following months, and take a look at any special messages from the chairman or other section officers. We'll be listing vacancies in case you'd like to participate as a chapter volunteer, or in another capacity. There will be links to the local student branches.

If you're already familiar with the "web", you know there is a lot more we can do. Meanwhile, please have a look at what we have done so far.

We'd like to thank all those who sent in responses to our survey on North Jersey Section sponsored Internet access. IEEE-Net is being tried out at the Regional level, and we're awaiting the results of those tests, before they make it available locally. We'll keep you advised in this newsletter and on our home page.

Mel Lewis, e-mail/WWW coordinator

IEEE
North Jersey and New Jersey Coast Sections
MTT-S/AP-S/ED-S CHAPTER
present

11th ANNUAL SYMPOSIUM and MINI-SHOW
Lectures and Booth Exhibits

FOCUS:
MICROWAVES FOR WIRELESS COMMUNICATIONS

Thursday, November 30, 1995
1:30 - 8:30 PM

Location:
Officer's Club Ft. Monmouth, Ft. Monmouth, NJ

Schedule of Events:

1:30 - 2:30 PM Lecture, Speaker from ATT

2:00 - 6:30 MINI-SHOW, 30 EXHIBITORS

3:30 - 4:30 Lecture, Speaker from Hewlett Packard

6:30-7:30
FREE DINNER TO ALL ATTENDING MINI-SHOW

7:30-8:30 Lecture, Ron Schneiderman
Exec. Editor, Microwaves & RF

ALL WELCOME !
ENGINEERS, TECHNICIANS
PURCHASERS AND ADMINISTRATORS
YOU DO NOT HAVE TO BE AN IEEE MEMBER TO ATTEND

For Information, reservations, direction or questions call:

Chandra Gupta (201) 633-4469 (GEC-Marconi)
Willie Schmidt (201) 492-0371
Arthur Paoella (908) 427-2825 (US CECOM)
or Tom Higgins (908) 427-4746 (US ARL)

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ERA

**A One-Day IEEE Tutorial On
PROTECTION OF SYNCHRONOUS GENERATORS**
Presented by the IAS and PES Chapters, North Jersey Section
Tuesday November 21, 1995, 8:30 AM to 3:30 PM
Jersey Central Power and Light HQ, 300 Madison Ave., Morristown, NJ 07962

A recent survey conducted by the IEEE Power System Relay Committee indicated that the protection of generators is one of the most misunderstood areas of protective relaying. Despite the publications of a number of IEEE/ANSI C37 guides on the subject, there appears to be little understanding of generator protection concepts and new protection schemes. The protection of synchronous generators involves the consideration of more harmful abnormal operating conditions than the protection of any other power system element. Contrary to the belief of some, generators do fail. The cost of these failures for a major generator are substantial in terms of repair costs and the cost of purchasing/generating more expensive replacement power during the period the unit is being repaired/replaced. The analysis of many of these failures indicates they could have been prevented by proper protection. If you are involved in the electrical protection of generators, this tutorial provides an excellent opportunity to understand this important area of power system protection. The tutorial is divided into fourteen (14) sections which comprehensively covers the subject of the electrical protection of synchronous generators. These sections are:

TOPICS

- | | | |
|--|---|---|
| • Fundamentals | • Generator stator phase fault protection | • Field ground protection |
| • Stator winding ground fault protection | • Abnormal frequency protection | • Overexcitation & Overvoltage protection |
| • VT signal loss | • Loss of field protection | • Out-of-step protection |
| • Negative sequence protection | • System backup protection | • Inadvertent generator energizing |
| • Generator breaker failure | • Generator tripping | |

A 78 page tutorial text specifically written for the tutorial is included in the registration fee. The course will be presented by a two (2) instructor teaching team for its Power System Relaying Committee who prepared the document.

Seminar Leaders

Chuck Mozina, P.E., Member IEEE. Manager Relay Applications, Beckwith Electric Co., Inc., Largo, Florida.

R. Vittal Rebbapragada, P.E., Senior Member IEEE. Senior Consulting Engineer-Electrical Power Systems, Ebasco Services Division, Raytheon Engineers and Constructors, New York, NY.

Cost - including materials, morning refreshments, and luncheons:

IEEE Members.....\$150.00
Non-Members\$195.00
Students with valid ID....\$ 50.00

Reserve your place by mailing a check payable to "IEEE North Jersey Section" to Ken Oexle, Jersey Central Power & Light, 300 Madison Ave., Morristown, NJ 07962 Call-in reservations are welcome. **\$50.00 DISCOUNT FOR FULL (NON-STUDENT) REGISTRATIONS POST-MARKED BY NOV. 10th!**

For information call Chuck Mozina, 813.544.2326, Vital Rebbapragada, 212.839.1473 or Ken Oexle, 201.455.8481

NJ Control Systems Soc.:

Controlling Nonholonomic Systems

The November 20, 1995 meeting of the NJ Section IEEE Control Systems Society will feature a talk on "Control Of Nonholonomic Systems: From Path Planning To Feedback Stabilization." The speaker will be Professor John T. Wen.

About The Talk

This talk will present a class of iterative methods for the planning of nonholonomic systems, and the extension to feedback stabilization. For path planning, these methods warp an initial path iteratively to an acceptable final path by using Newton-Raphson or Gradient type algorithms. Once a path is found off-line, a feedback controller is then used to follow the path. Through a simple modification, these off-line methods can be transformed directly into feedback controllers. The main idea is to couple the iteration variable to the actual time, thus the control is executed during the path iteration, before the convergence. This scheme guarantees the closed loop asymptotic stability when the system model is known, and possesses certain robustness when the model information is imperfect or if there is persistent external disturbances. Furthermore, by using penalty functions, inequality constraints can also be handled by the algorithm. Simulation and experimental results will be presented.

About The Speaker

John Ting-Yung Wen received his B.Eng. from McGill University in 1979, MS from University of Illinois in 1981, and PhD from Rensselaer Polytechnic Institute in 1985, all in Electrical Engineering. Since 1988 he has been with the Department of Electrical, Computer, and Systems Engineering at Rensselaer Polytechnic Institute and he is currently an Associate Professor. He is also a member of the New York Center for Advanced Technology in Automation, Robotics and Manufacturing. His current research interests are in the area of modeling and control of multibody mechanical systems, including flexible structures, robots, and vehicles, and deformation processes such as extrusion. Dr. Wen is a senior member of IEEE.

All Welcome

Members and guests interested in the meeting topic are invited.

Time: 6:30 PM, Monday, November 20, 1995.

Place: John Howard Room, Hazell Ctr., NJIT, 323 Dr. Martin Luther King, Jr. Blvd., Newark, N.J.

Information: Tim Chang (201) 596-3519 or tnc0766@tesla.njit.edu.

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Our classes are all equipped with PC's. To download detail course outlines, instructor's profiles (we have 20 instructors), lab facilities or for any other inquiries, please send your questions to >internet:71643.3556@compuserve.com. If you don't have email, please call our lab facility at 201-882-9797 to download from our fax server or call 201-334-1375.

Sample course outline for VB: data types, control flow, controls and properties, Menus, Dialogs, Event-oriented programming with Mouse and Keyboard, Visual design, File handling, intro. to DDE, ODBC and OLE concepts, Debugging, and runtime errors.

Special Promotional Course Schedule:

Course name	Reg. Price	Promo Price	IEEE mem Price	# of classes/Start Date/ Time
X916-Intro. to Client/Server Concepts	\$199	\$99	\$99	1 Sat Nov.4th 9-5.00 p.m.
X907-OOA/ OOD concepts for beginners	\$585	\$485	\$199	2 Sat & Sun/Nov 11th and 12th 9-5.00 p.m.
X917-Client/Server Programming	\$399	\$199	\$199	1 Sat&Sun Nov.18th and 19th 9-5.00 p.m.
X901-VisualBasic 4.0	\$785	\$585	\$485 -	8 Wed/Nov. 29th/6-9.00 p.m.
X-911-PowerBuilder	\$995	\$585	\$485	8 Thu/Nov. 30th/6-9.00 p.m.
X908-VisualC++ with MFC	\$885	\$585	\$485	8 Tue/Nov. 28th/6-9.00 p.m.
X-918-SmallTalk Prog.	\$885	\$585	\$485	8 Mon/Dec 4 th/6-9.00 p.m.

Students must register by Nov.10th for the above discounts.

Additional classes can be scheduled at other sites and time, based on the number of students. 15 % discount of the regular prices is available for IEEE members Courses are held at Software Galeria, 373E Rt. 46W, Fairfield, NJ 07004, Ramada Inn, Garden State Pkwy, Exit-135 Clark, NJ 07066 and promotional courses are held at Days Inn Hotel, 3159 Rt. 46E, Parsippany NJ 07054. Compilers are available at additional cost.

Registration Form for 1995 Promotional Courses

Company: _____	Day Phone: _____
Name: _____	Eve Phone: _____
Address: _____	IEEE No : _____
	email ID : _____
Please detach this form and mail to:	
Object Oriented Technologies.	Amount Enclosed: _____
27 Winding Way	Course #/dates
Parsippany, NJ 07054
	Compiler needed