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The IEEE **MONITOR**

PUBLISHED BY THE NEW YORK SECTION OF THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS

**IEEE Chapter of PES and IAS NY & LI
with IEEE PACE and the Edison Engineering Society**

Presents

Asset Allocation With Fixed Income

**Wednesday, April 24th, 2002
5:00 P.M. - 6:30 P.M**

(See Back Page for Details)

Visit our web page at
http://www.ewh.ieee.org/r1/new_york/

**PERIODICAL
TIME SENSITIVE MATERIAL**

Without Engineers The World Stops

By LeEarl Bryant, 2002 IEEE-USA President

The headline for this column is the theme for National Engineers Week 2002 (E-Week 2002) - 17-23 February 2002. E-Week (<http://www.eweek.org>) allows U.S. members of IEEE and other supporting organizations to take time to recognize members of our profession and their accomplishments, and consider how we can better prepare our young people for tomorrow's technologies. Hopefully, your IEEE Section and/or Chapter will be participating in E-Week 2002 activities.

The National Society of Professional Engineers (NSPE) established National Engineers Week in 1951. Presently, a consortium of more than 100 organizations, including IEEE-USA, guides and supports E-Week events.

E-Week is celebrated the week we observe George Washington's birthday. NSPE chose that week to recognize our profession because of our first president's background as a surveyor and military innovator, and because of his support for engineering education and the development of technology.

The E-Week Website says that: "On June 9, 1778, at Valley Forge, Pa., General George Washington issued a call for engineers and engineering education. This order is considered the genesis of a U.S. Army Engineer School, which found its permanent home at Fort Belvoir, Va., where Washington had practiced surveying. As President (1789-97), Washington pushed for the passage of the first U.S. Patent Act in 1789, and signed the first official U.S. patent to Samuel Hopkins of Vermont for his process of making potash and pearl ashes. In 1794, President Washington established a Corps of Artillerists and Engineers to be educated and stationed at West Point in New York, which later become the U.S. Military Academy at West Point." Thus, West Point is considered to be our nation's first engineering school.

From Washington's time to the present, our nation has been blessed with a select population of creative engineers who have made us the wealthiest nation in the world and created a lifestyle envied by many. At the same time, we represent one of the least understood professions, and we'll remain that way until a larger number of us become active in communicating who we are and what we do.

So I hope you understand why I challenge you to step out of your cubicle more often to initiate and participate in communicating what you and other engineers do, and how our contributions make a tremendous difference in everyday lives. Whether you closely fit the stereotypical "nerd" image or have an extroverted profile, you can help to create a positive image for engineers. You can also communicate the need to have an increased level of comfort with subjects related to science and math. You might even surprise yourself and enjoy working with teachers and students in pre-college classrooms.

Part of this challenge includes recognizing the work of your peers. Even though E-Week offers perhaps the best opportunity for recognizing engineers and their accomplishments, we should make a concerted effort to do this throughout the year. Most of us know engineers who have made significant technical breakthroughs, have consistently performed above the average, mentor others, practice a high degree of professionalism and volunteer for the benefit of others. In fact, due to the nature of our profession, most of our members deserve more recognition than they receive.

At minimum, take a few moments to pass on words of recognition to your peers. If possible, submit an award nomination or other acknowledgement of an engineer's or group of engineers' accomplishments. IEEE-USA sponsors numerous awards. Go to

<http://www.ieeeusa.org/AWARDS/index.html> for more information.

So make sure you get involved with E-Week activities in your area. You'll find it rewarding; the profession and our nation will benefit.

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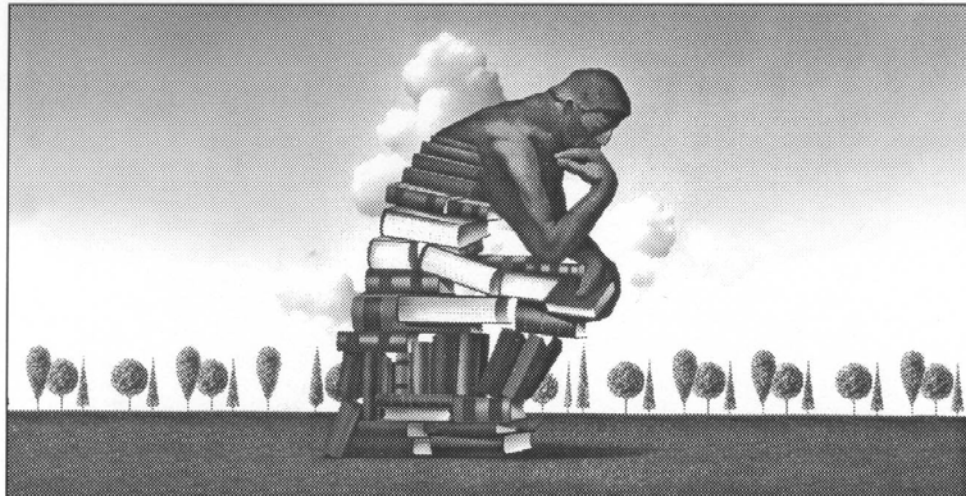
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Professional Activities Information Page

This page dedicated to member professional activities information

New York Section PACE Calendar of Upcoming Events. The following are proposed Section activities. Please plan to attend the Financial Seminar in April. It has been very popular in the past, and with the current conditions in the Financial Markets it should be of interest to all of you.

March 13: General Meeting
April 10: General Meeting
April 24: Financial Seminar
May 8: General Meeting

If you have suggestions on areas of professional activities that interest you please contact me.

Peter Greco PACE Chairman
Tel.: 212-614-3357 Fax: 212-529 5237
email: p.j.greco@ieee.org

IEEE-USA's and IEEE Job Site:

This highly rated job listing service was replaced by a new internet-based job site, and is sponsored by IEEE-USA and IEEE Spectrum. The site allows the active and passive job seeker more control over the recruiting process. For more details go to

www.ieee.org/jobs.

**IEEE EMPLOYMENT
ASSISTANCE
WEB SITE: <www.ieeeusa.org>**

The Employment Assistance Web Site brings together dozens of job-search resources in a single location. The site includes the following:

Entry-Level Employment Assistance Site:

If you are an engineering graduate, recent graduate, of IEEE Student Member looking

for the first job this is one of the best places to begin your career. Special entry-level employment services include job listings, links to company sites and job-search tips and techniques:

<www.ieeeusa.org/EMPLOYMENT/entry.html>

IEEE-USA's New Resume Referral Service:

Put your resume for maximum exposure! IEEE-USA in cooperation with Resume-Link has established a members-only Resume Referral Service which IEEE members may register, FREE of charge via web registration or by hard copy. Your resume will stay on file for six months (with an option to renew the listing up to a year). Make sure you check out this great new service to promote your credentials! For hard copy registration forms, contact Resume-Link at 614-923-0600 or
socmember@resume-link.com.

EMPLOYMENT AND CAREER ENHANCEMENT PUBLICATIONS

The Engineers Guide to Lifelong Employability

This is a practical complete resource book on locating and obtaining good jobs throughout your career. Features over 200 pages of in-depth text that will allow you to master the engineering job search.

IEEE Members: \$19.95

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A Brief History of the IEEE Logo

By Mel Olkin, Historian

In 1884, an International Electrical Exhibition was held in Philadelphia to feature U.S. contributions to electrotechnology. Because of the opportunity it presented, in May of that same year, a group of electrical “practitioners” (there was no such discipline or curriculum of electrical engineering) got together to form what they chose to call, the American Institute of Electrical Engineers (AIEE). In the organizing group were such notables as Thomas Edison and Alexander Graham Bell. AIEE became the fourth technical society in the United States, following the Civil Engineers, the Petroleum Engineers and the Mechanical Engineers. The first meeting of AIEE was held in Philadelphia at the exhibition. All AIEE meetings that followed were held in New York until 1893 when the Chicago members protested. That protest led to the formation of the Chicago Section. Today, IEEE has more than 300 Sections worldwide.

The early focus of the AIEE was primarily power engineering, which was in its infancy. Early papers were presented by notables such as Nikola Tesla (the induction motor), and Charles Steinmetz (hysteresis). Steinmetz served as the AIEE president in 1901.

Though Maxwell’s equations had been formulated in the 1870s and confirmed by Hertz’ experiments in the 1880s, AIEE did not consider this phenomena of great significance. Even after Marconi, in 1901, successfully demonstrated transatlantic “wireless” possibilities, the technology was still largely ignored by AIEE.

In frustration, the wireless people decided to form their own society, and in 1912 they chartered the Institute of Radio Engineers (IRE). From its very inception, IRE considered itself a representative of its technology and opened itself to any professional who was a part of that technology, regardless of location. This was in stark contrast to AIEE, which considered itself the representative of the American electrical engineer exclusively.

Thus, the two organizations went their own ways for many years. In time many electrical engineers especially those in communications fields, found that they had to join both organizations to obtain the pertinent literature they required. But, the basic conflicts in organization purpose insured that merger was not feasible.

After World War II the advent of the transistor, the integrated circuit, and the computer into everyday life and into the world’s power systems was forcing the two organizations to realize that they did indeed represent the same technology and that separation was a deterrent to their memberships. A merger was inevitable, and, after several years of negotiation and a formal vote by the membership of both organizations, the merger was effected on January 1, 1963 when IEEE was officially born.

Now let us again return to 1884 when a new society, AIEE, had been created and required a descriptive logo. Our forefathers did then what we do today, namely, they formed a committee to design a logo. And, if the adage that “a camel is a horse designed by a committee” is true, then allow me to introduce the camel of all logos, the first AIEE logo (Figure 1). The shape was of the Franklin kite, the Wheatstone Bridge with wiring and galvanometer, Ohm’s Law, and the AIEE letters are all displayed.



Figure 1

Within 5 years though, wiser heads prevailed and the logo was redesigned (Figure 2). The kite was flattened to a diamond shape and the spaghetti, metering, and Ohm’s Law were removed. What remained were the AIEE letters and two interconnected circles representing the interdependence of electricity and magnetism. This logo would remain untouched for the remainder of AIEE’s existence.



Figure 2

On the other hand, the IRE adopted a logo (Figure 3), which featured a triangle design together with the right hand rule represented in a thumbs-down mode. It is most interesting to note that both organizations chose to show the very same basic *raison d’etre*, the interdependence of electricity and magnetism, albeit differently.



Figure 3

So, when a new logo had to be created to represent the merged organizations, the inevitable result was the diamond shape of AIEE, representing the Franklin kite, plus the right hand rule, though now in a thumbs-up mode (Figure 4), which today is the most recognized logo of any technical society in the world.



Figure 4

“Bad software has been implicated in plane crashes, train wrecks, and lethal malfunctions of medical gear.” – Business Week, December 6, 1999, Special Report: Software Hell

SOFTWARE ENGINEERING *versus* SOFTWARE DEVELOPMENT

By

George Hacken, PhD, Senior Director, Train-Control Software, New York City Transit;
Chair of the New York Chapter of the IEEE Computer Society,
and

Wilson Milian, NYCT, Vice Chair of the New York Chapter of the IEEE Computer Society

The Problems and Risks of High Software-Content are industry-wide. They are not confined to any one public or private industry-sector. There is, furthermore, no choice these days in accepting software as a large if not major component of a new, upgraded, enhanced, or retrofitted system.

Software as a discipline is very young in comparison with Engineering at large. Industry is therefore only beginning to appreciate the **very real distinction** between **Software Development** and **Software Engineering**.

Software Engineering is software development rendered as a **full engineering discipline**, complete with development-management plans, requirement-documentation, design-documentation, quality assurance, configuration management, risk management, in-process metrics -- **a whole-life-cycle project-perspective**.

The determination whether or not a system- or software-vendor or developer practices software engineering, as opposed to mere software development, is **essential** to a project's success. For example, the fact that a system-vendor's personnel are as individuals talented -- even heroic -- developers is in itself an indicator of nothing; it can lead an organization to commit the fatal error of confusing software development with software engineering. Many world-class organizations have been thus confused, even in the recent past.

Consensus Regarding an Approach

The purpose of a project is to implement a system that has a desired **Functionality**. Concomitant fundamentals include acceptable **Cost, Schedule, and Quality**.

Government and industry concerns regarding these four fundamental attributes of software- and system-development projects began in earnest a few decades ago, and have culminated in a software process framework known as the Capability Maturity Model™ (CMM). The CMM is an evolute of, and is informed by, Department of Defense standards, IEEE standards, and ISO standards and procedures. The CMM is a product of the government-industry designated Software Engineering Institute (SEI, at Carnegie-Mellon University). The SEI's only charter is to advance the state of Software Engineering and, as a corollary, to improve the quality of software-based systems.

The Capability Maturity Model (CMM) identifies Software Engineering as an organization's consistent exercise of the following sub-disciplines **as a matter of explicit policy**, and throughout the **entire software life-cycle**:

- Requirement management
- Configuration management
- Quality assurance
- Project planning, tracking, and oversight
- Subcontract management
- Organization-wide process definition and focus
- Training
- Intergroup coordination
- Peer reviews

These are some of the CMM's **Key Process Areas (KPAs)**, which comprise Software Engineering. Programming and 'coding' -- there's a distinction with a difference -- are but a small fraction of software engineering.

IEEE News

IDENTITY STANDARDS, VERSION 2

IEEE Identity Standards specify how the IEEE name, Master Brand and other organizational symbols are used in IEEE materials and communications. For your reference, version 2 of the IEEE Identity Standards is now available on the Web. The updated document includes IEEE letterhead standards and examples, and information for use of the IEEE Master Brand in Web pages. In addition, the revised identity standards have more detailed explanations on the use of other graphics and text with the IEEE Master Brand, the location of the Master Brand within a design and the use of color.

Transition to the updated IEEE Identity Standards has already begun. The current IEEE Master Brand should be implemented:

- At the first change to a publication, package, Web page, etc.; or
- When a new design is developed; or
- By 31 March 2002, whichever is sooner.

To view the revised identity standards or to download electronic images of the IEEE Master Brand, go to
<http://www.ieee.org/about/documentation/copyright/logos.htm>.

For more information on the use of the IEEE Master Brand, contact Bill Hagen, Intellectual Property Rights, email w.hagen@ieee.org or phone 732 562-3966.

TECHNICAL EXPERTS GUIDE NOW AVAILABLE

Does your volunteer work include public relations responsibilities on behalf of the IEEE? If so, you may be interested in obtaining the new IEEE 2002 Technical Experts Guide. IEEE Corporate Strategy and Communications is distributing the Guide to journalists and other media professionals who write about a wide range of technology topics. This year, for the first time, the Guide also is available online at

<http://www.ieee.org/newsinfo/TEG.html>.

The 44-page guide includes an alphabetical list of entries based on the IEEE Technical Interest Profile list and from other Society recommendations. It provides contact information for representatives from each IEEE Society and other selected IEEE areas that are of interest to the media. To obtain either a printed copy or PDF file of the new IEEE Technical Experts Guide contact Corporate Communications at corporate-communications@ieee.org.

IEEE ANONYMOUS

Many Section volunteers communicate with members and other volunteers using their personal or business email address. This is fine, if it does not prove a burden in receiving many IEEE related emails in your home email inbox or at work. If you would prefer to keep your volunteer activities separate, or if you send messages to your whole Section and would prefer to represent the Section leadership as a whole, rather than yourself as the individual volunteer, consider utilizing one of the free email services such as Yahoo (www.yahoo.com) or Hotmail (www.hotmail.com) to set up an email address for your activity. Your address could be simply "IEEEDelhi@hotmail.com" or "IEEEDayton@yahoo.com." The advantage is that the email you do receive is not filling up the in-box of either your personal or work email.

If you wish to reflect the name of your Section or Chapter rather than your own, when the account is created, list the first name as IEEE and the last name as your Section. For example, the IEEE Princeton/Central New Jersey Section email address reads "ieeepcnj@yahoo.com" and appears to come from "IEEE Princeton."

NEW ETHICS AND MEMBER CONDUCT COMMITTEE FORMED

The IEEE Ethics Committee and the IEEE Member Conduct Committee merged to form the IEEE Ethics and Member Conduct Committee (EMCC). EMCC will recommend policies and educational programs to promote IEEE member and staff ethical behavior.

Also, it will consider instituting procedures for member and officer discipline, and requests for support. For information contact Tamara Walsh, IEEE Corporate Activities, telephone 732 465-6451, t.walsh@ieee.org.

Calendar of Upcoming Events

April 18, 2002 (Tuesday) 6:00 PM - 8:00 PM

The New York Section, IEEE Vehicular Technology
JFK Airport Transit System Forum

Nortel Networks, 320 Park Avenue, (50th ST) NYC

For information call Mr. Ramdane Benferhat at (718) 694-4433,
or by e-mail at ceents22rb@aol.com

April 24, 2002 (Wednesday) 5:00 - 6:30 PM

IEEE Chapter of PES and IAS NY & LI with IEEE PACE
and the Edison Engineering Society

Asset Allocation With Fixed Income

Con Edison Executive Dining, 4 Irving Place, 19th Floor, New York, NY

For information call Alan Osborne by phone (212) 460-6690 or by fax (212) 529-0463
or; Jim Minck by phone (212) 613-6730 or by fax (212) 613-6827

The following New York Section members have been elevated to **Fellow**

Mr. Rajiv V. Joshi

IBM Research Division

IBM T.J. Watson Research Center, P.O. Box 218

Yorktown Heights, NY 10598

For contributions to chip metallurgy materials and processes, and high performance processor and circuit design.

Dr. David Nahamoo

IBM T.J. Watson Research Center

P.O. Box 218

Yorktown Heights, NY 10598

For development of speech recognition algorithms and products.

Dr. Mark S. Squillante

IBM Research Division

Thomas J. Watson Research Ctr.

30 Saw Mill River Road

Hawthorne, NY 10532

For contributions to analysis, modeling and optimization of computer systems.

Dr. Ellen June Yoffa

IBM Thomas J. Watson Research Center

P.O. Box 218

Yorktown Heights, NY 10598

yoffa@watson.ibm.com

For technical, professional, and business leadership in electronic design automation.

The following New York Section members have been elevated to Senior Member

Zhong-Ping Jiang

Solomon Max

William Montgomery



IEEE THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.

NY Section

JFK Airport Transit System Forum

April 18, 2002 6:00 to 8:00 PM

Host: **Nortel Networks**
320 Park Avenue, (50th ST) NYC

The IEEE NY Section Vehicular Technology will sponsor a technology-sharing forum on the JFK Airport Transit System. Panelists from the New York Port Authority and its consulting firm will describe and answer questions on the JFK "Air Train".

Design and systems engineers, suppliers, installers, planners, contractors and operators of transit systems are encouraged to attend and raise questions and share insights.

There is a \$35.00 charge for the forum and refreshments, commencing 5:30 PM.

Advance registration is desired for admission. IEEE Members and non-members may register for the April 18, 2002 forum by sending \$35.00 checks, payable to IEEE NY Section, to David Horn, Fluor Daniel Transportation, 505 8th Avenue, Suite 601, New York, New York 10018. If you are an IEEE member, please provide your membership number.

Additional information regarding program specifics may be obtained by contacting Mr. Ramdane Benferhat, New York City Transit, at (718) 694-4433, or by e-mail at ceents22rb@aol.com



IEEE NEW JERSEY COAST SECTION

presents

A Two-Day Seminar/Conference



WIRELESS LANS & IP TELEPHONY

March 27-28, 2002; 8:00 AM – 5:00 PM

IEEE Headquarters, Piscataway, New Jersey

This year the IEEE New Jersey Coast Section annual conference will feature presentations on Wireless LANs and IP Telephony presented by a set of distinguished lecturers.

MARCH 27, 2002		SCHEDULE OF EVENTS	
8:00 – 10:30	<p>WIRELESS LANS</p> <p>Session W1 <i>Wireless LAN Overview</i> Kun Il Park, MITRE Corp</p>	8:00 – 10:00 & 10:15 –12:00	<p>IP TELEPHONY</p> <p>Session I1 <i>Overview of IP Telephony & Standards (H.323 & SIP)</i> Amruthur Narasimhan, Avaya, Inc.</p>
10:45 – 12:00 & 1:00 – 2:15	<p>Session W2 <i>WLAN Chips and Components</i> Jim Zyren, Intersil</p>	1:00 – 2:45	<p>Session I2 <i>QOS for Voice Over IP</i> Suresh Ranganna, Lucent Technologies</p>
2:30 – 5:00	<p>Session W3 <i>Toward 4G Networks</i> Andrew Campbell, Columbia Univ.</p>	----- 3:00 to 5:00	<p>Session I3 <i>Session Initiation Protocol and its Applications (SIP)</i> Venki Krishnaswamy, Avaya Inc</p>

March 28, 2002		SCHEDULE OF EVENTS	
8:00 – 10:00 & 10:15 –12:00	<p>WIRELESS LANS</p> <p>Session W4 <i>Bluetooth</i> Pravin Bhagwat</p>	8:00 – 10:00 & 10:15 –12:00	<p>IP TELEPHONY</p> <p>Session I4 <i>Service Creation & Security</i> Henning Schulzrinne, Columbia Univ.</p>
1:00 – 2:45 & 3:00 to 5:00	<p>Session W5 <i>Wireless Networking Solutions for the Enterprise</i> Patrick Leary, Breezecom</p>	1:00 – 2:45 & 3:00 to 5:00	<p>Session I5 <i>The Role of VoIP in Modern Telecommunication</i> Siroos Afshar, AT&T</p>

Note: 7 am-8 am: Breakfast 10:30 am-10:45 am & 2:15 pm-2:30 pm: Coffee Breaks 12 Noon-1 pm: Lunch
SEATS ARE LIMITED, REGISTER EARLY!

Register Before March 1, 2002

IEEE Members- 1-day \$275, 2-day \$475

Non-members 1 day \$325/day 2-day \$525

One registration price includes breakfast, lunch and snacks.

Register After March 1, 2002

IEEE Members- 1-day \$325, 2-day \$525

Non-members 1 day \$375/day 2-day \$575

Please go to IEEE NJ Coast section web site at <http://ewh.ieee.org/r1/njcoast> to register for the Seminar/Conference. For information contact: Charles Chery, chery@ieee.org, (732)-420-8698

Registration Information Needed

Note: This is included to indicate the participant information that is needed and it is not part of registration. For registration, you need to go to the website.

Registrants information:

First name, Last name Address , City, State, Zipcode Phone number, E-mail address , Job Title

IEEE member? yes/no, IEEE member #

Select tutorial -Both days /One day

Diet Selection: Regular/Vegetarian/Kosher

Payment Information:

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If paying by **credit card** then provide:

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If payment is by credit card or check, please provide your signature and send it to IEEE HQ, Jennifer Lambert at IEEE HQ, IEEE Headquarters, 445 Hoes Lane, Piscataway, New Jersey, phone # 732.562.3870, fax 732.465.6447 and email j.lambert@ieee.org.

SPEAKERS WANTED!!!

Dates Open

The Lasers and Electro-Optics Chapter of the Long Island Section of the I.E.E.E. seeks an experienced instructor. The instructor will be responsible for teaching one or more sessions on Electro-Optics. The instructor should be well versed on the fundamental concepts of how electrical to optical and optical to electrical transducers operate. The objective of the Electro-Optics Chapter is to offer training that will enhance the understanding of students presently working in the field and enlighten other students desiring to enter the field.

If you would like to give lessons. please contact John H. Peterson at:

johnhpeterson@yahoo.com

or

(516) 877-1600

Distributed Generation Technology

Free seminar with limited seating

May 16-17, 2002

Holiday Inn North/Newark Intl Airport

160 Frontage Road

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Sponsored by:

Basler Electric Company

DAY ONE PARTICIPANTS SHOULD LEARN:

- How to implement Distributed Generation
- How to use the most up-to-date control and protection hardware
- How to apply DG for small and for larger machines
- How to adapt available hardware to meet the requirements of the plant owner and the electric utility

DAY TWO PARTICIPANTS SHOULD LEARN:

- How the most recently proposed IEEE standard reflects the latest ideas for protecting generating equipment and the Intertie with the electrical network
- How the safety concerns of both parties to the tie drive the effort to standardize the interconnection
- How to keep the cost of the Intertie in check by taking into account the generator capacity

Applications of Distributed Generation

EXCITATION: Broad range of products and technology, 6kW to 900MW

CONTROL: From genset control to power plant control

PROTECTION: Multifunction protective relays and protection schemes

CONNECTION: Manual and automatic connection to the grid

COMMUNICATION: Monitor, control, and meter from the generating site to anywhere

Seminar Schedule

Seminar will commence each day at 9:00 a.m. and end at 4:00 p.m. Lunch break is from 12:00 NOON to 1:00 PM.

Seminar Outline

INTRODUCTION TO DISTRIBUTED GENERATION

- Concept of DG vs. central generating station
- Network and load control examples
- Functional and load requirements

DG FOR DIESEL-DRIVEN GENERATORS

- Standby genset conversion
- Functional and equipment requirements
- Emergency modes

DG FOR MEDIUM-SIZED BRUSHLESS GENERATORS

- Stationary power plant
- More sophisticated excitation and control needs
- Emphasis on monitoring, control, and communication

REVITALIZING AGING GENERATING PLANTS

- Rehab decisions and reasonable expectations
- How to prepare specifications
- Latest digital and microprocessor technology

RECOMMENDED PROTECTION FOR DG

- IEEE P1547: The proposed universal interconnection standard
- Interconnection protection at various levels of complexity
- Equipment to address safety concerns
- Economic dispatching of DG resources

Continuing Education Units

This seminar series has been reviewed and approved by the International Association for Continuing Education and Training. 1.2 CEUs are offered for attendance at both Newark sessions, or .6 for each day-long session. Your Social Security Number is required if you desire CEU credit for your full participation.

Questions about the seminar

For registration questions, call Lynn Miller at 618/654-2341, ext. 127. For content questions, call Fred Wolf at 618/654-2341, ext. 785.

How to register

- 1) Contact a sponsor for a registration form. Fax completed form to Lynn Miller at Basler Electric (618-654-2351) by May 6, 2002, or
- 2) Register on-line at www.basler.com (on home page "Register for DGT Seminar here"). If you include your fax number and e-mail address, you will receive a confirmation.

PUBLISHER'S STATEMENT

The IEEE MONITOR is the official news publication of the New York Section of The Institute of Electrical and Electronics Engineers, Inc. The New York Section is comprised of the five boroughs of New York City (Brooklyn, Bronx, Manhattan, Queens and Staten Island) plus Rockland and Westchester Counties. The publication reports on events and activities of interest to the general membership composed of electrical and electronics engineers and computer scientists, presents topical feature material relevant to the engineering profession, and carries the monthly IEEE society chapter calendar of events as a service to its readers.

CIRCULATION

The IEEE MONITOR is distributed to all IEEE members in the New York Section plus additional subscribers. Monthly circulation as of December, 1999 is 6,200.

ISSUE AND CLOSING DATES

The IEEE MONITOR is published monthly except June, July and August. Advertising order deadline is the first of the month preceding issue date. Camera ready material is due on the 5th of the month preceding issue date.

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days after issue date. Rendering invoice to ad agency does not relieve advertiser in case agency default.

MECHANICAL SPECIFICATIONS

Size

Publication trim size 8 1/2" x 11"

Image size is 7 1/2" x 10"

Publication is black and white 3 column format. Each column is 14 picas wide.

Color is NOT available at this time.

Full Page	7 - 1/2" x 10"
2/3 Page	4 - 3/4" x 10"
1/2 Page (horizontal)	7 - 1/2" x 5"
1/2 Page (vertical)	4 - 3/4" x 7 - 1/2"
1/3 Page (square)	4 - 3/4" x 5"
1/3 Page (vertical)	2 - 1/4" x 10"
1/4 Page	4 - 3/4" x 3 - 3/4"
1/6 Page	2 - 3/4" x 5"
Bus. Card	2" x 3 - 1/2"
Col. Inch	1" x 2 - 1/3"

Materials

Preferred material for black and white ads is right-reading emulsion side down negative. Halftone screen is 100 lines. Veloxes, other reproducible proofs and laser printed materials are acceptable. Photocopied material is not accepted. Original artwork accepted at advertiser's risk. Composition and assembly to advertiser's layout available at nominal charge. Submit copy and layout for quote.

ADVERTISING POLICY

All advertising is subject to the publisher's approval. Advertisers and their advertising agencies assume all liability for all content including text, illustrations, sketches, labels, trademarks, etc., of all advertising submitted for publishing, and also assume responsibility for any claims arising therefrom made against the publisher.





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IEEE CONSULTANTS' NETWORK OF NORTHERN NJ

<http://www.TechnologyOnTap.org>

MEETING ANNOUNCEMENT for Thursday, March 21, 2002

Promotional Materials Workshop

On Thursday evening, March 21st, IEEE Consultants' Network of Northern NJ will hold its monthly general meeting, featuring a promotional materials workshop.

ABOUT THE TOPIC

"Promotional Materials Workshop" is designed to be an informal discussion forum devoted to an improvement of marketing items used by independent consultants.

In the course of their practices, independent professionals use various forms of printed or electronic promotional materials. Their range may include business cards, flyers, brochures, email-able documents or even whole Web pages. Typically, these are created by the consultant himself, often resulting in very imaginative and unique designs. On the other hand, sometimes the message is lacking.

During the meeting, network members will present some of the materials used in their practices. This is intended to serve as a source of ideas for other members, in addition to generating some feedback and friendly critique. The discussion will be low-key and unstructured, in order to create a non-threatening environment for exchange of opinions.

Scheduling note: due to calendar conflicts, March meeting will be held ahead of CNNNJ's usual schedule of last Thursday of the month.

CONSULTANTS' NETWORK MEMBER PRESENTATIONS

During the second half of the meeting, the following member of the IEEE Consultants' Network of Northern NJ will be presenting a brief overview of his consulting practice:

Barney Arntz is an electrical engineer (BSEE) with 20+ yrs experience in analog, radio frequency (RF) and microwave circuits and systems, specializing in high linearity RF power amplifiers. He operates a state of the art lab with equipment up to 3 GHz, which is capable of characterizing systems with complex modulation. He has been consulting for 5 years with several amplifier vendors, designing products used for wireless base stations.

ABOUT THE CONSULTANTS' NETWORK

The IEEE Consultants' Network of Northern NJ was founded in 1992 to encourage and promote the use of independent technical consultants by business and industry.

ALL WELCOME!

You do not have to be a member of the Consultants' Network to attend.

Time: 7:30 PM. Thursday, March 21, 2002

Place: MCE/KDI Integrated Products, 60 S. Jefferson Road, Whippany, NJ.
(Use the rear entrance.)

Information: For directions and up-to-date meeting status, call Robert Walker (973) 728-0344 or visit our website at www.TechnologyOnTap.org

Attendance: Free admission.

*IEEE Chapter of PES and IAS NY & LI
with IEEE PACE and the Edison Engineering Society*

Presents

***Asset Allocation
With Fixed Income***

Topics:

*State of the Economy
Asset Allocation
Fixed Income Strategies
Certificate of Deposits
Preferred Stocks*

*U.S. Treasury Securities
U.S. Agency Securities
Zero Coupon Bonds
Federally Insured Deposits
Corporate Bonds*

Special Topic:

Opportunities in the fixed income market today.

Date

Wednesday, April 24th, 2002

5:00 P.M. – 6:30 P.M

(Refreshments will be served at 5:00pm).

Con Edison Executive Dining

4 Irving Place, 19th Floor

New York, NY 10003

Featured Speakers

Jim Minck

*Senior Vice President, Financial Advisor
Retirement Planning & Investment Specialist
Morgan Stanley, New York*

Doug Kohl

*Vice President
Fixed Income Division
Morgan Stanley, New York*

Reservations Are Necessary

Please RSVP by Monday, April 22nd 2002 to:

Alan Osborne by phone (212) 460-6690 or by fax (212) 529-0463 or;

Jim Minck by phone (212) 613-6730 or by fax (212) 613-6827

**** If you plan to attend, please fax this invitation to Jim Minck at 212-613-6827***

RSVP*

Name: _____

Address: _____

City: _____ **State:** _____ **Zip Code:** _____

Telephone (W): _____ **(H):** _____

Email: _____

Guest(s): _____

*Morgan Stanley, New York
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