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

Presents

Investing for Retirement
During Volatile Markets

Thursday, March 22\textsuperscript{nd}, 2001
5:45 P.M. - 7:00 P.M

(See Back Page for Details)
Continuing Education For Engineers?

In the State of New York, licensed pharmacists, dentists, certified public accountants, podiatrists, architects and ophthalmic dispensers are required to complete a certain number of hours of continuing education annually. In New York State, Professional Engineers are currently exempt from these requirements, although such continuing education is lately obligatory in 17 other states. Is continuing education for engineers an idea worth considering?

According to the New York State Board of Regents Report of June 2000, “Continuing professional competence means that a licensee 1) is at least qualified to practice at the time of licensure, and 2) has kept current with changes and developments in the profession since the time of licensure.” “In all professions, the explosion of information and available technology creates challenges for the licensee and underscores the importance of the continuum of professional practice.”

No matter how expert an engineer may be considered in a narrow specialty, it is still necessary to update skills and/or knowledge from time to time. Attending a stand-alone lecture on a cutting-edge technology is a suitable and worthwhile pursuit. A conference or a workshop is always recommended to achieve this end.

Critics of mandatory continuing education requirements feel that because participants are allowed to select their own courses of study, there is no homogeneity in what participants may be learning. In addition, competence is measured by self-assessment. Although it is often remarked that modern engineering is a team effort, it is an unproductive engineer who has nothing to contribute to the team. By instituting a regimen that is state-oriented, we add nothing to it but bureaucracy. Rather than have governmental bodies insist on continuing education for engineers, it is the engineer’s task to make sure that he remains current with the flourishing technology.

As it is, in this country, every state has its own registration protocol and registration fee requirement. Often, the registration is accepted by comity, and a duplication of pages of forms accompanied with a check. I understand that the European countries have managed to accept reciprocity without additional certification. In other words, if you are qualified as an engineer, you are accepted as an engineer anywhere. Some may argue that some states require additional expertise, such as seismic, to augment the base knowledge, but I believe an engineer should be required to be knowledgeable in such fields. The P.E. test should include such material for all states uniformly and an engineer should be recognized not by one state at a time and a price.

Jalal Gohari
THE IEEE MONITOR

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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. Dates and locations will be announced in future issues when they become available. Please plan to attend at a meeting or seminar.

March 14: General Meeting
April 11: General Meeting
May 9: General Meeting
June 15: 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
e-mail: p.j.greco@ieee.org

IEEE – USA’s 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:

IEEE-USA’s Listing Service:
This highly rated job listing service gives members free information on job openings in every region of the country. To obtain current job listing, set your web browser to:
www.ieeeusa.org/jobs.html.

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>

IEE-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>.

IEEE – USA’s EMPLOYMENT ASSISTANCE WEB SITE: <www.ieeeusa.org>

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

Engineering Careers into the 21st Century
Offers strategies and insights for engineers working in today’s dynamic professional environment IEEE Members: $20.00
2001 Space Odyssey!

I.E.E.E Life Members, PES and IAS
Joint Meeting with Edison Engineering Society

The Speaker for the April 5 meeting will be Dr. David J. Helfand, Professor of Astronomy at Columbia University. David has been at Columbia for 24 years, oscillating between the Departments of Physics and Astronomy. He is currently Chair of the Faculty of Arts and Sciences. He has also spent some time in Copenhagen and Cambridge University, England, where he spent fifteen months as the Sackler Distinguished Visiting Astronomer. His research spans a variety of astronomical topics and techniques, including radio, infrared, optical, and X-ray observations of sources ranging from nearby stars to the most distant quasars.

Professor Helfand’s topic, “A new View of the Radio Universe,” will provide a report on his project of the last eight years to map the sky in the cm band. This FIRST survey has produced Faint Images of the Radio Sky at Twenty-cm with a sensitivity and angular resolution fifty times greater than any previous survey. Following an introduction to the Very Large Array interferometer used in the survey, David will provide illustrations of the sources detected and the insights into the Universe, near and far, that the survey has produced.

At the conclusion of his presentation, David will be happy to answer your questions upon your return to earth.

Thursday, April 5, 2001

Refreshments: 5.15pm
Location: Con Edison 19th Fl.(use Exec. Elev.)
4 Irving Place, NY 10003

Program: Starting at 5.45pm
Nearest Subway: Union Square

Reservation to:
Alan Osborne @ 212 460 6690 or
Mike Miller @ 212 460 4911

All Invited!
The Long Island Section of the IEEE Computer Society presents a full day workshop

Software Verification & Validation: An Overview for Practitioners
April 5, 2001  8:30 AM - 5:00 PM

Overview
The Long Island Section of IEEE Computer Society is presenting a full day interactive workshop titled: Software Verification & Validation: An Overview for Practitioners.

Who Should Attend
This workshop is intended for software QA professionals, software developers and software project managers interested in learning current techniques for cost-effective verification & validation of software.

Key Benefits
• Learn Software Verification & Validation processes and procedures;
• Learn the formal inspection process
• Learn how to increase the effectiveness of testing

Content
What you will learn: The workshop is based on the book Software Verification and Validation: A Practitioner's Guide, written by the instructor. The workshop provides an overview of current software V&V techniques with emphasis on practical skills that can be implemented quickly. Students will learn the formal inspection process and will participate in a mock inspection to practice roles and responsibilities. Students will also learn how to more effectively plan a testing activity and how to do a better job of finding those defects that customers are likely to find.

Seminar Coordinator
Babak D. Beheshti is the Chairman of the IEEE Long Island Section and the Computer Society Chair.

Instructor
Steven R. Rakitin is President of Software Quality Consulting Inc. He has over 25 years of experience as a software engineer and software quality manager. He presents tutorials and workshops at conferences nationally. He is the author of the book: Software Verification & Validation: A Practitioner's Guide. His consulting company helps organizations establish a more predictable software development process. Visit www.swqual.com for more information.

Location and Time
The workshop will be given in Melville from 8:30 AM to 5:00 PM. Textbook and course notes are included in the registration fee, as are refreshments and lunch. Registrants will be advised of the exact location and receive an acknowledgment by mail shortly after registration. The seminar is wholly the responsibility of IEEE Long Island Section and the instructor. For further information contact Babak Beheshti at 516.686.7437 or b.beheshti@ieee.org

Fees refunded in full if the seminar is canceled or the registrant cannot be accommodated due to capacity limitations. Other refunds will be considered.

Registration Fees

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Note:
Register for both 4/5 and 4/6 seminars and receive a 20% discount!

Registration Form
Software Verification & Validation, April 05, 2001
Make checks payable to “IEEE Long Island Section”. Send form to Babak D. Beheshti, 101 Caffrey Avenue, Bethpage, NY 11714-1435

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Company: ______________________

Home Address: ______________________

City and Zip: ______________________

Hphone: _________ Bphone: _________

Fax: __________ email: __________

Member #: __________ Grade: _________

Amount enclosed: __________ Date: __________
The Long Island Section of the IEEE Computer Society

presents a full day interactive workshop expressly for Managers

Management's Role in Achieving Predictable Software Development

April 6, 2001  8:30 AM - 5:00 PM

Overview

The Long Island Section of IEEE Computer Society is presenting a full day workshop titled: Management's Role in Achieving Predictable Software Development.

Who Should Attend

This workshop is intended for Managers and Executives who are interested in learning how they can help change the culture of their organization.

Key Benefits

This workshop answers to the following questions:
- How can I influence the behavior of my organization?
- What behaviors should be encouraged and which should be discouraged?
- How can I know if I'm on the right track?

Content

Most software organizations lack discipline, credibility, and most importantly, predictability. As a result, it's difficult to determine when software products will be released, the features these products will have, and overall quality. Without knowing when products will be released, you may not be able to plan customer training and product promotions, resource utilization becomes difficult to manage, and customers may be unable to plan for introduction of your software into their organization. A predictable software development process can significantly improve an organization’s ability to deliver quality software on time, to meet customer expectations, and to improve your bottom line.

You will learn how to:
- Balance issues of Quality, Features, and Schedule
- Create accurate schedules you can actually meet
- Balance issues of People, Process, and Product
- Software Engineering Best Practices
- Risk Management and Project Post Mortems
- Improve testing effectiveness by finding defects your customers are likely to find

Seminar Coordinator

Babak D. Beheshti is the Chairman of the IEEE Long Island Section and the Computer Society Chair.

Instructor

Steven R. Rakitin is President of Software Quality Consulting Inc. He has over 25 years of experience as a software engineer and software quality manager. He presents tutorials and workshops at conferences nationally. He is the author of the book: Software Verification & Validation: A Practitioner's Guide. His company helps organizations establish a more predictable software development process. Visit www.swqual.com for more info about this workshop.

Location and Time

The workshop will be presented in Melville from 8:30 AM to 5:00 PM. Course notes are included in the registration fee, as are refreshments and lunch. Registrants will be advised of the exact location and receive an acknowledgment by mail shortly after registration. The seminar is wholly the responsibility of IEEE Long Island Section and the instructor. For further information contact Babak Beheshti at 516.686.7437 or b.beheshti@ieee.org

Fees refunded in full if the seminar is canceled or the registrant cannot be accommodated due to capacity limitations. Other refunds will be considered.

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Note:

Register for both 4/5 and 4/6 seminars and receive a 20% discount!

Registration Form

Software Verification & Validation, April 06, 2001

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Calendar of Upcoming Events

**March 22, 2001** (Thursday) 5:45 PM - 7:00 PM Refreshments at 5:00 PM
IEEE Chapter of PES and IAS NY & LI, IEEE PACE with Edison Engineering Society
"Investing for Retirement During Volatile Markets!"
Con Edison, 19th Floor Executive Dining Room, 4 Irving Place, Manhattan, NY
For more information contact: Alan Osborne @ 212 460-6690 or Jim Minck @ 212 392-8206

**April 5, 2001** (Thursday) 5:45 PM Refreshments at 5:15 PM
IEEE Life Members, PES and IAS Joint Meeting with Edison Engineering Society
"2001 Space Odyssey!"
Con Edison, 19th Floor Executive Dining Room, 4 Irving Place, Manhattan, NY
For more information contact: Alan Osborne @ 212 460-6690 or Michael A. Miller @ 212 460-4911

**April 5, 2001** (Friday) 8:30 AM - 5:00 PM
The Long Island Section of the IEEE Computer Society
"Software Verification & Validation: An Overview for Practitioners"
Melville, Long Island
For more information contact: Babak Beheshti at 516.686.7437 or b.beheshti@ieee.org

**April 6, 2001** (Friday) 8:30 AM - 5:00 PM
The Long Island Section of the IEEE Computer Society
"Management's Role in Achieving Predictable Software Development"
Melville, Long Island
For more information contact: Babak Beheshti at 516.686.7437 or b.beheshti@ieee.org

**April 24, 2001** (Tuesday) 6:00 PM
The IEEE NYC Section Vehicular Technology Society Chapter
"New York City Transit R-143 Rail Car Propulsion, Control, and Signage Systems"
Nortel Networks, 320 Park Avenue, (50th ST) New York City
For more information contact: David Horn at (212) 947-7110, or e-mail david.horn@fluor.com

**May 17, 2001** (Thursday) 9:00 AM - 4:45 PM
The IEEE NYC Section Communications Society Chapter
"Building a High Volume Scalable Web Site"
Con Edison, 19th Floor Auditorium, 4 Irving Place, Manhattan, NY

The following New York Section members have been elevated to Senior Member Grade
Congratulations to
Shih-Fu Chang
Chitra Dorai
Amruth N Kumar
Vladimir Parizhsky
The IEEE NYC Section Vehicular Technology Society Chapter will sponsor a technology-sharing forum on the New York City Transit R-143 Rail Car propulsion, control, and signage systems. The lead panelist, Mr. Erwin Schaeffer, New York City Transit’s Project Manager for the R-143 contract, will explain and answer questions on this fleet of new technology, Rapid Transit vehicles.

Systems engineers, suppliers, installers, and operators are invited to share insights. Future IEEE NY Section, VTS Technology Sharing forums are being planned for:

- Fiber Optic Communication networks for Rail Vehicle control,
- Automatic Bus Location and Control Systems, and
- Wayside and Railcar PA and Customer Information Systems

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

**Advance registration is required for admission.** IEEE Members and non-members may register for the April 24, 2001 forum by sending $35.00 checks payable to IEEE NY Section to Brad Craig, Louis T. Klauder and Associates, 317 Madison Avenue, Suite 1621, New York, New York 10017. If you are an IEEE member, please provide your membership number and indicate if your interest in participating in one or more of the planned forums.

Additional information regarding program specifics can be obtained by contacting Mr. David Horn of Fluor Daniel Infrastructure, at (212) 947-7110, or by e-mail at david.horn@fluor.com.
THE NEW YORK CHAPTER of THE IEEE COMMUNICATIONS SOCIETY sponsors a full-day conference on

Building A High Volume Scalable Web Site

Thursday, May 17, 2001
9:00 am to 4:45 pm
The Management Dinning Room (19th Floor)
Consolidated Edison
4 Irving Place, New York, New York

For full details:

http://www.comsoc.org/socstr/chptrs/nyc/
Communications Play Key Role in Building Careers and Shaping Public Policy

Recent blackouts and power shortages in California, the Northwest, Midwest, Northeast and Florida have demonstrated that electric power policy has a large impact on the public benefits of electrotechnology. The IEEE and its members -- leaders in electrotechnology and information technology -- have key roles to play in maximizing the public benefit of our field. Achieving that goal entails more than technical work, it requires involvement by members in the public-policy process.

Similarly, career success for today’s mobile engineer demands both technical and non-technical skills and a supportive policy environment.

To support our members both individually and collectively, IEEE-USA is working hard to increase the availability of our quality professional development programs and to increase the effectiveness of our government relations programs. We do this by focusing on the highest-impact issues and by engaging our geographically dispersed U.S. members in grassroots activism.

Communication is key to making our programs more available, and to engaging members in public-policy programs. Based on surveys and studies of member preference, we have designed a comprehensive IEEE-USA member communications program. At the forefront of our efforts are the new magazazine IEEE-USA News and Views, and two insightful monthly Web-based magazines (Webzines), IEEE-USA Today’s Engineer and IEEE-USA Policy Perspectives.

Here’s a more in-depth look at each one:

- **News and Views**, the lynchpin of our new communications efforts, is a quarterly print publication that will debut in March. It will feature articles that help you build your career and alert you to IEEE-USA products and activities that help shape public policy in the areas of career policy and technology policy. It will also include pointers to material available in previous Webzine issues and will be delivered with your copy of The Institute and Spectrum.

- **Today’s Engineer** replaces the award-winning print publication by the same name that was available through subscription only. It provides information on careers in electrotechnology and information technology, on products useful for building your career, and on professional development for today’s engineer. It appeared for the first time in January.

- **Policy Perspectives** addresses topics in both career policy and technology policy, including the status of pending legislation, IEEE-USA position statements and opportunities for you to act. It also began in January.

Both Webzines can be found at [http://www.todaysengineer.org](http://www.todaysengineer.org). Each one has an "opt-in" notification service, where you can sign up to receive an e-mail when each new issue of Today’s Engineer and Policy Perspectives is posted on the IEEE-USA Web site. For this service, go to [http://www.todaysengineer.org/emailupdates](http://www.todaysengineer.org/emailupdates).

You, the member, are the most effective messengers of the perspectives of engineers to your congressional representatives and senators. As former Speaker of the House Tip O’Neill once said, "All politics is local." Our electronic grassroots outreach program enables you to monitor and act on developing legislation and issues that affect our members and the engineering profession. You can receive legislative alerts on specific issues of interest at [www.ieeeusa.org/forum/grassroots](http://www.ieeeusa.org/forum/grassroots). And you can have news delivered your in-box by subscribing to IEEE-USA’s Eye on Washington electronic newsletter at [http://www.ieeeusa.org/emailupdates](http://www.ieeeusa.org/emailupdates).

Our Policy Forum ([http://www.ieeeusa.org/forum](http://www.ieeeusa.org/forum)) and Legislative Action Center ([http://congress.nw.dc.us/ieeeusa](http://congress.nw.dc.us/ieeeusa)) provide a variety of tools and resources to help educate you about the issues, prepare a letter to your congressperson, or arm you with material for a visit to your congressperson’s district office.

These communications vehicles play a key role in IEEE-USA’s mission to build careers and shape public policy. **In the area of building careers**, IEEE-USA sponsors conferences and symposia; develops and disseminates career-development tools; argues for a strong U.S. engineering workforce through programs ranging from pre-college to continuing education, to permanent immigration; and supports pension portability for a mobile workforce. **In the area of technology policy**, IEEE-USA works for reliable restructuring of the electric supply industry; strong research and development through both industrial tax incentives and federal funding; fair intellectual property rights in today’s economy; and privacy and reliability of the information infrastructure.

So I encourage you to utilize the communications tools we have provided. Because electrotechnology and information technology carry great potential for improving the public’s quality of life, it is up to us to communicate our important messages both inside and outside the profession. We each have a responsibility to serve by providing both authoritative perspectives to decision makers and professional development tools to our members. Here’s to a great 2001.
IEEE-USA NEWS

IEEE-USA WEBZINES ARE LIVE!

IEEE-USA has posted on the web the first issues of its new monthly web publications IEEE-USA TODAY'S ENGINEER and IEEE-USA POLICY PERSPECTIVES. You are invited to read them and to sign up for monthly alerts when new issues are posted.

IEEE-USA TODAY'S ENGINEER includes feature articles and short blurbs with career guidance, tips, strategies and solutions for all sectors of the profession. It will encompass the latest on IEEE-USA’s career enhancement products and services. See for yourself at:

http://www.todaysengineer.org/careerfocus

IEEE-USA POLICY PERSPECTIVES includes timely articles and commentary on the topics that are shaping legislation, the technology workplace, and the engineering world. We'll also provide you with the information you need to get involved as well as to contribute your expertise and your voice to the decision-making process. See for yourself at:

http://www.todaysengineer.org/policyperspectives

In the premier issue of TODAY'S ENGINEER, read former EE TIMES' Profession Editor Bob Bellinger's article on stealth job hunting -- how you can be among the most desirable candidates by *not* actively pursuing a new position through the IEEE's new job site to be activated in February. In the same 'zine, go to CPA Michele Riley's article on how to evaluate stock options as part of a corporate package in today's more volatile stock market. Further, IEEE Senior Research Historian Rik Nebeker looks at how neon lighting has lit up popular culture. And IEEE Member and author Todd Yuzuriha explains how to use humor effectively in the workplace.

In the premier issue of POLICY PERSPECTIVES, IEEE Life Fellow Jack Casazza seeks member support in shaping electric power policy. In the same 'zine, a reader poll requests opinions on the relevance to U.S. plants of the Japanese concept of *kaizen* that encompasses total quality control, continuous process improvement, error-free production, and just-in-time delivery. In addition, IEEE-USA's public policy agenda for the 107th Congress is detailed. And a Reader Feedback section includes several letters from IEEE members on what the PE license means for engineers.

Sign up now for monthly reminders of the webzines' publication. Go to

http://www.todaysengineer.org/emailupdates

See for yourself how IEEE-USA's new webzines will help you identify the skills and issues that will have the greatest impact on your career, as well as relate your career to the many technology and public-policy issues being discussed at the local, state and national levels.
Why not advertise where 6,200 high-income enlightened New Yorkers will view your message? Consider our low rates and unique distribution. Extend your reach; put your company image where the payback is immediate and rewarding.

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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
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<td>Col. Inch</td>
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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.

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### New York Section, IEEE
Officers of the Executive Committee
2000-2001

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<th>Title</th>
<th>Name &amp; Address</th>
<th>Phone*, Fax Number &amp; E-mail</th>
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<tbody>
<tr>
<td>Chairman</td>
<td>Jalal Gohari</td>
<td>(973) 565-4843 [B]</td>
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<tr>
<td></td>
<td>Parsons Brinckerhoff</td>
<td>(973) 824-7007 [F]</td>
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<tr>
<td></td>
<td>Two Gateway Center, 18th Floor</td>
<td><a href="mailto:gohari@pbworld.com">gohari@pbworld.com</a> [E]</td>
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<td>Newark, NJ 07102</td>
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<td>Vice Chairman Chapter</td>
<td>Ralph Tapino</td>
<td>(718) 752-7503 [B]</td>
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<td>Con Edison Communications</td>
<td>(718) 752-7550 [F]</td>
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<td><a href="mailto:raltap@aol.com">raltap@aol.com</a> [E]</td>
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<td>Treasurer</td>
<td>Robert Pellegrino</td>
<td>(212) 338-4004 [B]</td>
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<td>Con Edison</td>
<td>(212) 679-3857 [F]</td>
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<tr>
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<td><a href="mailto:pellegrinor@coned.com">pellegrinor@coned.com</a> [E]</td>
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<td>New York, NY 10017</td>
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<td>Secretary</td>
<td>Benjamin Schall</td>
<td>(212) 460-2109 [B]</td>
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<td>Con Edison</td>
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<tr>
<td></td>
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<td>New York, NY 10003</td>
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<td>Tri-Tech Enterprises, Inc.</td>
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<td>2810 Morris Avenue</td>
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Senior Vice President, Financial Advisor
Retirement Planning & Investment Specialist
Morgan Stanley Dean Witter, New York

David Broder
Vice President, Marketing Director
Travelers Portfolio Group

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