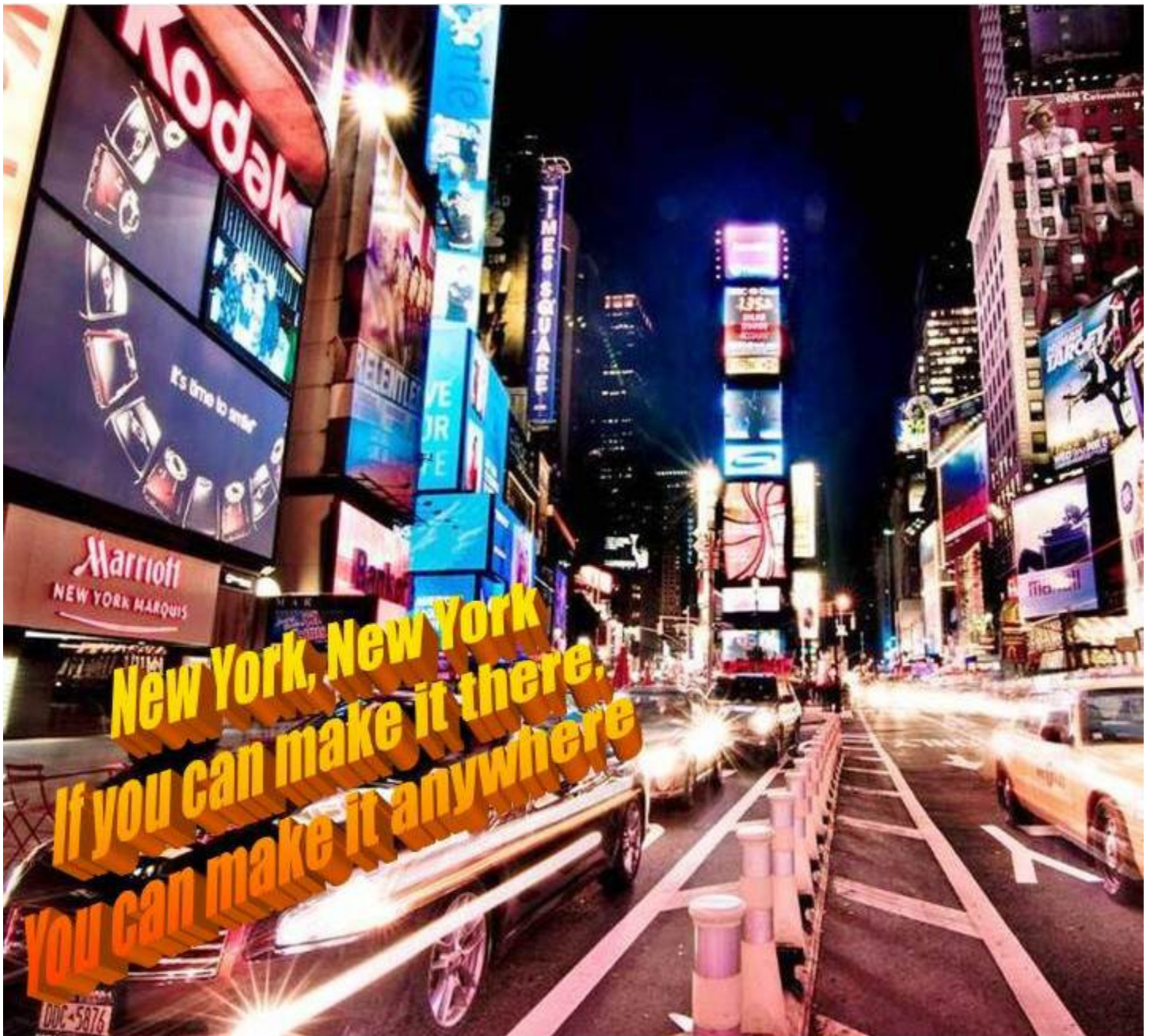


New York Chapter

SUBMISSION FOR

The Year - 2011

**POWER AND ENERGY SOCIETY
OUTSTANDING LARGE CHAPTER AWARD**



FOR THE CALENDAR PERIOD

January 1, 2011

Through

December 31, 2011

New York Chapter

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New York Chapter



Chapter Nomination

Ralph Mazzatto, Chapter Representative

February 18, 2012

The New York Chapter is nominated for their performance during the calendar year 2011 under the leadership of Chapter Chair William F. Montgomery, the chair of record as of December 31, 2011. Mr. Montgomery and his Committee deserve much credit for leadership and service to the Chapter throughout the year.

The Chapter is commended for its very successful and strong performance in GOLD, student, technical, educational, inter-ethnic, and public affairs programs exemplified by the establishment of a college tuition grant to encourage power engineering. Fifteen colleges were contacted. Chapter awarded a \$1,000.00 scholarship to a candidate selected by the Polytechnic of NYU in 2011 after making a similar award in 2010. The Chapter was awarded the IAS 2011 Outstanding Performing Chapter Award. The New York Chapter's Executive Committee has been very active in promoting the Electrical Engineering Profession throughout the New York Metropolitan Area.

Some significant 2011 high points were:

- * 2011 was an exceptionally successful year for the New York PES & IAS Chapter. At the beginning of the period, the chapter established goals and objectives to perform at the highest possible level for our members. The Chapter was successful in exceeding our goals in every category with a total of one hundred forty six (146) L-31 functions. All of these accomplishments could only have been achieved through the work of the many individual volunteers and the cooperation of our team members. I sincerely thank everyone for their continued efforts and help that made this possible.
- * Our chapter was awarded the 2010 IAS Outstanding Chapter Award and our Awards Chairman, Ajoy Das, attended the IAS General Meeting in 2011 to represent our chapter in accepting the award. Ajoy presented an overview of the Chapter's activities for 2010/2011. Our chapter was awarded runner-up PES Outstanding Large Chapter Award in 2010. Our Vice Chairman Arnold Wong attended the PES Chapter Chairs Training Meeting on Sunday, July 24, 2011 in Detroit. This meeting consisted of training sessions about benefits, procedures and resources that PES has for the Chapters functioning and how to have access to all of those.
- * The Program and Technical Discussion Group Committees, in cooperation with other societies, coordinated fourteen (14) presentations to various engineering groups. The co-sponsored societies included the Edison Engineering Society, WIE, PACE, and the Life Membership Affiliate Group. Our Chapter with the Long Island Chapter cosponsored the NY Institute of Technology Conference Off Shore Energy on June 2, 2011.
- * In 2011, the Publicity Committee increased the Best Customer List to 764 individuals, continued the use of E-notices, printed notices in the NY Section Monitor, and postings on the chapter Web Site for meeting notifications. The committee also circulated PES flyers and arranged facilities for the Program and Technical Discussion Group presentations at the Consolidated Edison Company headquarters in New York City.
- * The Education Committee developed and conducted an eight (8) week course on Short Circuit, Protective Device Coordination and Arc Flash Analysis which was attended by 42 and was accredited for 18 PDH's/1.8 CEU's. The course received overwhelmingly favorable responses and positive feedback from the participants. We will develop and implement a Fire Alarm Course in 2012 as well as develop short course programs of interest to our members. The Awards Committee, in reorganization to our volunteer members, selected the PES and Chapter Outstanding Engineers and coupled with volunteer service awards, organized the annual awards dinner. This function, held at Pete's Tavern, was attended by

New York Chapter



Chapter Nomination

twenty-two members. The \$1000 college student scholarship was presented at this year's Awards Dinner function. This year the Education Committee issued 50 certificates for CEUs (Continuing Educational Units) to the participants in our 12 class technical program used by Professional Engineers in maintaining their PE licenses.

* The Public Affairs Committee arranged to publish ads in several engineering school newspapers regarding IEEE Power and Energy and Industry Applications Societies.

* The Student Activities Committee and Membership Committee, together, continue to focus on increasing student membership and encouraging colleges to include power engineering courses in their curriculum.

* PES Chapter volunteers on the Membership Committee participated in IEEE Region 1 Membership Development (MD) webcasts and teleconference call meetings to learn more about IEEE membership development efforts and have made suggestions to enhance benefits for members and to recognize the efforts of member volunteers during these webcasts. Membership materials have been handed out & distributed at various PES/IAS Chapter meetings and presentations. Members of the PES Chapter Membership Committee have also participated in the Hudson Valley Engineering Expo, whose focus is on pre-university students (middle school & high school) interested in science and engineering. We also focus on increasing IEEE membership especially on increasing PES/IAS Chapter membership. They participated in the Future cities competition and industry presentations. They maintained constant communications with all universities in the NYC area. They continued to support GOLD/WIE/PACE and events of various other committees. The Committee was instrumental in establishing the Chapter's college tuition grant program to encourage power engineering in the area. Each year, up to five - \$1000 scholarships are offered to college students in the NYC area.

* Our enhanced programs and outreach have strengthened the society, community, and public awareness of the roll engineers play in the power industry. We have allowed for an increase in networking among our members who seek job opportunities and have encouraged students to join and participate in activities. Members of the PES/IAS Chapter work together with members of the IEEE New York Section GOLD Committee to enhance opportunities for the Section's GOLD members.

Other highlights include:

- Sponsoring Professional Engineering Review Courses
- Creating an environment where engineers can network and interact.
- Providing opportunities for rewards and advancement.
- Conducting technical and educational programs.
- Staffing Student Study Groups for F. E. Exam.
- Creating an ad campaign to make others aware of engineering opportunities.
- Participation in regional activities through other chapters and organizations.
- Attendance at society and milestone events.
- Creating awareness of programs through the Monitor newsletter and E-notice

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Criteria 2a

Technical Programs

Date	Topic	# of Attendees Total / PES
Jan 25, 2011	Herrenknecht Double Shield Tunnel Boring Machines	94/50
Feb 22, 2011	ELECTRIC VEHICLE CHARGING STATIONS	97/53
Mar 22, 2011	POWER FACTOR CORRECTION	98/59
Apr 26, 2011	Learning from the Past: From Wired City to Wireless Society	62/45
May 03, 2011	So You Want to be a Consultant? 12 Steps to Success	56/36
May 24, 2011	Ultra Energy Efficient Dry Type Transformers	68/43
Jun 28, 2011	Corrosion Issues in the Electrical Industry	70/45
Jul 26, 2011	M29 345 kV Transmission Project Electrical Portions	98/59
Aug 23, 2011	Evolution of Standards, Past, Present & Future	37/27
Sep 21, 2011	Living Your Way: Planning for Income in Retirement	N/A
Sep 27, 2011	Con Edison's 345 kV Feeder M29 Project Tunnel Design and Fit-Out	80/44
Oct 25, 2011	Moore's, Metcalfe's and Murphy's Laws- Success and Failures with New Technologies	58/33
Nov 22, 2011	Humanitarian Engineering Opportunities for NY Professionals	50/28
Dec 20, 2011	Tidal Turbine Arrays	77/35

The New York Chapter hosted fourteen (14) technical programs with a total attendance of 945 or an average of 72 attendees per meeting. The selection of programs is on technical quality, value, and the expertise of the speaker in their given field. This is a continuation of a multi-year ongoing effort. The outline of these programs is contained at the end of this document.

In planning and designing these programs, we work with many groups to develop an agenda that will be interesting, informative, and educational. These groups include IAS (Industry Applications Society), LM (Life Member Affinity Group), PACE (Professional Activities Committee for Engineers) WIE (Women In Engineering), EWB (Engineers Without Borders), AIAA (American Institute of Aeronautics and Astronautics), and others. Each has contributed in both presenters and ideas that have generated interest and understanding.

We established a distinct Technical Programs group chaired by Sukumar Alampur. Arnold Wong chairs our Program Committee. Both work together to create what is an outstanding agenda and agenda that have commanded attendance far exceeding our expectations.

New York Chapter

Criteria 2a

Technical Programs

Good technical programming is the heart and soul of the PES. It is our objective to present those programs of greatest interest, both technical and educational. We have chosen to concentrate on a broad range of topics designed to interest and stimulate discussion of current engineering and technical subjects. Below is a listing of these topics:

- 1. January 25, 2011: Herrenknecht Double Shield Tunnel Boring Machines for the 7 Line Extension Project.** The Seven Line Extension is a collaborative effort on behalf of the MTACC and S3II Tunnel Constructors (J.F. Shea, Schiavone, and Skanska) to revitalize the West Side of Manhattan. The project is designed to extend the 7 Line, which currently travels from Flushing to Times Square. The project will extend service to the Jacob Javits Center. The tunneling in the project was completed with (2) Herrenknecht Double Shield Tunnel Boring Machines (TBM) each with a diameter of 22.5' at a length of 445'. During excavation, the machine placed concrete segments to form a continuous concrete liner. Tonight's presentation will focus on the technical portions of the machines as well as the mining process.
- 2. February 22, 2011: Electric Vehicle Charging Stations.** Electric Vehicles (EV) have begun to appear in automobile dealerships across America. With all of the major manufacturers planning electric grid tied vehicles over the next few years, a lot of planning and implementation needs to be put into building up the infrastructure to address the battery charging needs of this rapidly emerging auto segment. General Electric's EV Charging Station product line is one such product that has been introduced to meet this demand. This presentation will provide an overview of the EV Charging Station with a detailed look at how an EV infrastructure can be implemented in the United States.
- 3. March 22, 2011: Power Factor Correction.** Most North American utility companies have recently introduced a new charge on their utility bills, better known as a Power Factor charge. Power factor in a facility can be related to the efficiency of how power is utilized. Basically low power factor equates to low efficiency. Utilities now charge for low efficiency. The focus of this presentation is to provide the audience with information about power factor and power quality issues related to correcting the power factor in a facility.
- 4. April 26, 2011: Learning from the Past: From Wired City to Wireless Society.** Three periods of time involving multi - media communications and their impact on society are discussed and compared in this talk. These periods are the 1970s, with focus on the then newly - developing cable TV and the resultant concept of the "Wired City"; the mid - 1990s, with the focus moving to the then novel idea of multi - media wireless communications; and, finally, the present, with the focus on mobile smart phones, social networking applications and 4th - generation wireless systems. We raise and discuss the question, are we already in the throes of a Wireless Society, reminiscent of the Wired City concept of 35 years ago? Are the tradeoffs, pro and con, similar to those debated during the heyday of the Wired City?

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Technical Programs

5. **May 3, 2011: So You Want to be a Consultant? 12 Steps to Success.** Many people have considered going into business for themselves as independent consultants, but have held themselves back because they did not have a clear vision for how to get started. Perhaps they did not know how to define their technical offering. Maybe they feared the business and marketing aspects of being a consultant. They may not know how to get started, worse yet they may have already started with unrealistic goals or a poor plan and ended up in trouble. This is a how-to-do-it seminar for the beginner consultant, with a step-by-step process to launch a new consulting business. It explains what to do and what to watch out for. Valuable lessons and insights from real experience will be revealed. This is a guide for practitioners who are ready to try their hand in the consulting business.
6. **May 24, 2011: Ultra Energy Efficient Dry Type Transformers.** In 2007, new minimum energy efficiency guidelines were established for all low-voltage, dry-type transformers installed in the United States. Since that time, manufacturers have developed low-voltage dry-type transformers with even higher energy efficiencies... with some models exceeding 99%. What is the market for ultra energy efficient transformers, how are they designed and constructed differently, and are they worth the extra money? These are some of the questions this presentation will answer. .
7. **June 28, 2011: Corrosion Issues in the Electrical Industry.** The total annual estimated direct cost of corrosion in the U.S. is 276 billion. The annual cost of corrosion in the electrical utilities is estimate at 6.9 billion. Knowledge of corrosion issues and preventive measures can significantly reduce these costs.
8. **July 26, 2011: Building a New Transmission Substation.** Building Substation and Transmission projects today became a complex and difficult tasks and face a host of environmental, strategic and construction challenges. Most of the issues affecting the new projects today include strict environmental and safety requirements, bigger public involvements, greater regulatory oversight and increasing material and labor costs. The following presentation will reveled the technical aspects of the latest 345kV Transmission Station and its accompanying 345 kV High-Pressure Pipe-Type Cable System that brought additional 480 MW of energy from Westchester to Manhattan.
9. **August 23, 2011: The Evolution of Standards - Past and Future** In each wave of civilization, entrepreneurs have created wealth while each society worked to redistribute that wealth, in part by creating standards. The development of agriculture, which required standard measures of land and produce, moved civilization from a hunter-gatherer society to a wealthier agrarian society. The development of manufacturing, which produced standardized products, created enormous wealth during the industrial revolution. The information age with its computer and communications entrepreneurs is built on standardized compatibility (i.e., cellular, IEEE 802.11.xx, WiFi, DSL, DOCSIS, etc.). Each new wave of technology requires new standards to widely distribute the benefits of that technology. This presentation explains how the balance between the needs of the entrepreneur and the needs of society in the post-information age can be better resolved. New forms

New York Chapter

Criteria 2a

Technical Programs

of standards are identified which can offer the entrepreneur opportunities to increase profit without limiting a technology's value to society.

- 10. September 21, 2011: Living Your Way: Planning for Income in Retirement.** With retirement not too far off, do you see it primarily as a time to relax? Travel? Further your education? Start a business? Spend time with your family? More importantly, will you have the income you need to afford the kind of retirement you envision? Drawing on the resources and intellectual capital of a global investment firm, a Morgan Stanley Smith Barney Financial Advisor can help you create a retirement income game plan that incorporates sound investment strategies, current retirement realities and—equally important—what retirement means to you.
- 11. September 27, 2011: Con Edison's 345 kV Feeder M29 Project Tunnel Design and Fit-Out.** Delivering power to NYC offers technical challenges because of the many geological and manmade obstacles. As part of Con Edison's recent 345kV Feeder M29 project, construction of a utility tunnel beneath the Harlem River was required. This presentation will discuss the design challenges associated with constructing a drill and blast tunnel in Manhattan and the requirements for fitting-out a utility tunnel, which make it unique.
- 12. October 25, 2011: Successes and Failures with New Technologies.** Moore's law, Metcalfe's law, and Murphy's law - success and failure with new technologies. Hitting the magic point on the 'hockey-stick' curve is the dream of every hi-tech entrepreneur. However, how does this happen, and what are the factors that result in an explosive success? Invariably a number of things must come together at the right time. The speaker looks at some of these factors, including Gordon Moore's famous 'law', as well as the one lesser known from Metcalfe. He highlights some important details inside a few selected business ventures, and analyses that their impact has been on pervasive high technology products and services of today, such as Facsimile, the Mobile Phone, the Internet, and e-Bay. And of course, thanks to the engineer's fundamental law of Murphy, history is littered with failures.
- 13. November 22, 2011: Humanitarian Engineering Opportunities for NY Professionals** Engineers Without Borders – USA (EWB-USA) works to achieve a vision of a world in which all communities have the capacity to meet their basic human needs. This vision is actively pursued by engaging in community-driven programs through the design and implementation of sustainable engineering projects.
- 14. December 20, 2011: Tidal Turbine Arrays.** Verdant Power submitted a Final License Application to the FERC under the newly established Hydrokinetic Pilot Project Licensing Procedures in December 2010. This license application, the first of its kind in North America, proposes a phased installation of 30 tidal turbines, with total rated capacity of 1 MW. On May 3, 2011, the FERC recommended licensing the Roosevelt Island Tidal Energy (RITE) Project. The FERC's recommendation to license the project was based on its analysis of a variety of environmental and

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Criteria 2a

Technical Programs

recreational monitoring measures proposed by Verdant Power and included four additional staff modifications. If approved, the RITE Project would be the first tidal power plant licensed to transmit energy onto the national grid. Founded in 2000, Verdant Power, Inc. is a systems innovator, integrator, and project developer that utilize simple and scalable technologies to generate utility and village scale electric power from natural underwater currents found in rivers, tides, ocean streams, and manmade channels. In addition to delivering affordable and emission-free electricity, Verdant Power systems can be adapted to develop other community-based services, such as desalinization and potable water. Headquartered in New York, Verdant Power is incorporated in Canada, the UK, and Hong Kong.

New York Chapter

Criteria 2b

Educational Programs

We established a distinct Educational Program group co-chaired by Thomas Li and Sukumar Alampur. This is an ongoing effort and our programs have been running for many years. Our agenda is dedicated to keeping engineers current in their technical skills, providing our Professional Engineers with the continuing educational credits needed to maintain their licenses, help new engineers obtain licenses through our PERC ((Professional Engineering Review Course). For the past 30+ years, the NY Section Joint PES/IAS Chapter has collaborated with the PERC (Professional Engineering Review Course) organization to promote the Professional Engineering license exam. The agreement between the Chapter and PERC included coordinating the scheduling of rooms at the Consolidated Edison Company, 4 Irving Place, New York, NY and its Westchester headquarters in Rye, NY and advertising the engineering review courses in our local NY Section newsletter. In exchange for this, the Chapter received a percent commission from the PERC registration fees. These funds continue to provide funding to support all the activities of the NY Joint PES/IAS Chapter including our scholarship program and monthly technical meetings in which professional engineering credits (CEUs) are granted to IEEE members. In addition to the percent commission, a select number of PES/IAS Chapter members in the past were granted free registration to attend the PERC courses at the Con Edison facility.

The benefits of this arrangement include:

- Encouraging power engineers (at Con Edison & other companies) to join the IEEE NY Section Joint PES/IAS Chapter.
- Promote more IEEE member volunteers into the Chapter.
- Recruit new IEEE members.
- Provide a facility for power engineers at Con Edison & local NY City Consulting Companies to take P.E. exam classes.
- Encourage power engineers, who may be IEEE members to get their P.E. license.
- Allowed a select number of IEEE PES/IAS Chapter members free registration to take the PERC course.

The IEEE Power & Energy Society and the Industry Application Society of the New York Chapter sponsor the program for CEU credit. The IEEE upon receipt of a properly completed and executed form mails CEU credit certificates directly to the attendee. The Chapter makes the submission to the IEEE upon receipt of attendance at the sessions.

A CEU credit hour is defined as 60 minutes of continuous participation in a group program. Credit is given only for full credit hours. Each session represents two credit hours. A maximum of twenty four (24) credit hours or 2.4 CEUs can be earned for this program of twelve (12) sessions. The Education Committee developed and conducted an eight (8) week course on Short Circuit, Protective Device Coordination and Arc Flash Analysis which was attended by 42 and was accredited for 18 PDH's/1.8 CEU's.

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Criteria 2b

Educational Programs

The course received overwhelmingly favorable responses and positive feedback from the participants. We will develop and implement a second Fire Alarm Course in 2012, our first was in 2009, as well as develop short course programs of interest to our members. We previously ran a course in grounding. For our regular Technical Program of 12 classes in 2011 we processed more than 50 applications for CEU credit.

The Goals of our Educational Committee are to:

- Continue to expand our membership by soliciting engineers within Con Edison, the New York City Transit Authority as well as other companies with whom our executive committee members are associated.
- Provide incentives for existing IEEE members to join PES and well as all non-affiliated engineers.
- Continue our career development and leadership seminars targeting more junior engineers.
- Enhance the Program Committee by soliciting members that are more active.
- We will continue to offer presentations featuring respected and experienced industry leaders to our membership.
- We held 83 PERC classes, with an average attendance of 25 per class; we plan to continue this program.

New York Chapter

Criteria 3a

Public Affairs Programs

Provide service to its members in the societal area through public affairs programs consisting of meetings open to the public on national and local public affairs issues, advocated by the Education/Industry Relations Department, oriented toward the public, interfacing with the news media and legislators on PES issues, and which advance the engineering profession, or improve communication with chapter membership. We established a distinct Public Affairs group chaired by Farzad Haghi. This is an ongoing effort and our programs have been running for many years. All of our meetings are open to the public and everyone is invited to join the discussion.

The New York PES provides this service with activities in all of the following areas:

- a. Public Interest – Future Cities Competition and Westinghouse Science Awards.
- b. Engineering – Engineers Week Event at NYU Polytechnic Institute.
- c. Community Issues – Engineers Without Borders Program.
- d. Chapter membership – Fall Outing Networking Event.
- e. Co-sponsored the NYIT Annual Renewable Energy conference. The conference, “Beyond Carbon: Offshore Energy and Technologies,” brings together government, business, industry, and academic experts from NYIT and other universities. The group of energy specialists examined moving away from carbon-based fuels to cleaner – though often controversial – alternative energy sources.

“This timely one-day conference will explore the fundamental science and cutting edge applications of various clean technologies for Long Island and the Northeast,” said Nada Anid, Ph.D., NYIT’s dean of the School of Engineering and Computing Sciences. “The conference should be of equal interest to venture capitalists, the scientific community, policy makers and the general public in the NY Metropolitan area and beyond.

These activities include the promotion of improved communication, the dissemination of technical information to a broad non-technical audience, and involvement of engineers in non-technical societal activities. This is demonstrated by the activity of PES Volunteers, PES Public Affairs, and leadership in IEEE Section activities concerning matters oriented to the public. It includes activity to improve communications with chapter members, to promote the development of the engineering profession, and to recognize the service of the chapter and its members.

- We will continue to offer presentations featuring respected and experienced industry leaders.
- We establish contact with various universities in the New York City area to inform students as to the benefits of majoring in Power Engineering and Industrial Engineering.
- The Universities contacted include The City College, Cooper Union, Stevens Institute of Technology and Polytechnic University, and several others.
- We inform both IEEE members and non-members of the existence of the Power and Energy and Industry Applications Societies and the benefits of membership.
- We will continue to develop new talent for elected positions on the executive committee for committee chairs and members from a pool of men and women engineers. Our member serves on METSAC, at the section and regional levels, and MESC (Metropolitan Engineers Society Council) and hold positions of responsibility like Area and Regional Chairs, Editor or the Power and Energy Magazine, etc.

We will also continue the following activities:

- Sponsoring Professional Engineering Review Courses – 83 classes held
- Creating an environment where engineers can network and interact.
- Providing opportunities for rewards and advancement.
- Conducting technical and educational programs – 14 classes held.
- Staffing Student Study Groups for F. E. Exam.
- Creating an ad campaign to make others aware of engineering opportunities.

New York Chapter

Criteria 3a

Public Affairs Programs

- Participating in regional activities through other chapters and organizations.
- Attending at society and milestone events – 2 held. In May 2011 Milestones events were at Con Edison for two notable accomplishments: the establishment of Thomas Edison's Pearl Street Station in Lower Manhattan in 1882, and the refurbishment of the original Edison Dynamo # 16, which for many years had operated at another Pearl Street Station, this one at the junction of Pearl and Adams Streets across the East river in Brooklyn.
- Creating awareness of programs through the Monitor newsletter and E-notice.

We focus on increasing IEEE membership and especially on increasing PES/IAS Chapter membership. We participated in Future Cities competitions and Industry Presentations. We maintained constant communications with fifteen universities in the NYC area. We continue to support GOLD/WIE/PACE and events of various other committees. The PES NY Chapter actively recruits from recent graduates for service on the various committees in its efforts to be inclusive of the GOLD Chapter members. A separate membership list is maintained and programs of special interest to this group are held regularly. Gold Members are regularly recruited to serve on the Executive Committee and we currently have two in the positions of Senior Member at Large and Treasurer. We work closely with the Section and Gold Chair to coordinate our programs. The award we give to the Graduate of the last decade is a \$ 1,000.00 scholarship to further their graduate education. We started this program in 2006. Our enhanced programs and outreach have strengthened the society, community, and public awareness of the roll engineers play in the power industry. We have allowed for an increase in networking among our members who seek job opportunities and have encouraged students to join and participate in activities. Members of the PES/IAS Chapter work together with members of the IEEE New York Section GOLD Committee to enhance opportunities for the Section's GOLD members.

The Program and Technical Discussion Group Committees, in cooperation with other societies, coordinated eleven (11) presentations to various engineering groups. The co-sponsored societies included the Edison Engineering Society, WIE, PACE, and the Life Membership Affiliate Group. The Chapter has been in the forefront of promoting Women in Engineering. Since our student scholarship program started, we have awarded three, \$1000, scholarships to women. We have strong ties to the Section, and encourage the current Chair, Balvinder Blah, to enhance her engineering career through membership in the IEEE on the NY Section executive committee.

Our Chapter placed an advertisement in local newspapers to raise public awareness to the important functions performed by the engineering profession to improve the general well being of the

population at large. The ad was placed in the Washington Square News metropolitan edition servicing New York University and Polytechnic Engineer College and in the Columbia Spectator aimed to bring attention to Engineers. Similar ads were placed in newspapers in previous years, and will be repeated in 2011. These ads are a considerable cost to the Chapter; however, the Chapter

feels that these ads are valuable aids to remind the public of the true contribution being made by the engineering profession.

IN CELEBRATION OF ENGINEERS WEEK
FEBRUARY 20-26, 2011

Thank an **ENGINEER** Why?
Because engineers are dedicated to the advancement of . . .
TECHNOLOGY.

The advancement of **TECHNOLOGY** has improved our way of life immeasurably. Can you imagine our lives without the conveniences we take for granted everyday? Just look around you!

This reminder is sponsored by the The New York Chapter of the IEEE Power & Energy Society and Industry Applications Society . . . a group of dedicated professionals improving the quality of life

Address comments to:
IEEE/PES/IAS
445 Hoes Lane • Piscataway, NJ 08855-1331
www.ieee.org • neil.weisenfeld@ieee.org • bob.pellegrino@ieee.org

The "Fenix" Rescue Capsule: Designed by Engineers!

The New York Chapter, Power & Energy Society and Industry Applications Society Salutes the Chilean Miners Rescue

For Membership Information Contact:
Neil Weisenfeld: neil.weisenfeld@ieee.org
Robert Pellegrino: robertpellegrino@ieee.org

IEEE
THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.

New York Chapter

Criteria 3b

Student Activities Programs

Organize activities relative to students. This includes demonstrated activity with respect to IEEE Student Branches at the college level and with students in grades K-12. The Student Activities Committee lead by our Chair Andy Woo and Membership Committee Chair Neil Weisenfeld, together, continue to focus on increasing student membership and encouraging colleges to include power engineering courses in their curriculum. PES Chapter volunteers on the Membership Committee participated in IEEE Region 1 Membership Development (MD) webcasts and teleconference call meetings to learn more about IEEE membership development efforts and have made suggestions to enhance benefits for members and to recognize the efforts of member volunteers during these webcasts. Membership materials have been handed out & distributed at various PES/IAS Chapter meetings and presentations. Members of the PES Chapter Membership Committee have also participated in the Hudson Valley Engineering Expo, whose focus is on pre-university students (middle school & high school) interested in science and engineering.

We continue our support of the Future Cities competition, have provided funding, and support in the way of mentors and judges. Leon Katz and Balvinder Blah have volunteered as both judges and mentors.

We ran special mentoring for the Fundamentals of Engineering program.

They collaborated on SPAC at various universities. They represented IEEE-SAC at university fairs, teacher's conferences, and workshops. They supported Future cities competition and industry presentations. They established constant communications with all universities in the NYC area. The Committee was instrumental in establishing the Chapter's college tuition grant program to encourage power engineering in the area.

- SAC has participated in First Robotics competition as engineering mentor..
- SAC has attended the IEEE SAC web conference for new members.
- Purpose of SAC Congress: Introduce new SAC members to the activities of SAC.
- Several SAC activities were discussed.
 - 1) Website upkeep: passing the torch to a new webmaster.
 - 2) Micromouse competition.
 - 3) 24 Hour programming competition.
 - 4) Ethics Contest - Region 2.
 - 5) Member & Geographic Activities (MGA) purpose was discussed.
 - 6) To promote IEEE member involvement and membership.
 - 7) To extend services that is "vital" to all members.
- Began Mentoring at MS 144 in the Bronx for the Future Cities competition.
- Advertising for IEEE during Future Cities 2011 Competition.
- Future Cities Competition team at MS 144 came in 4th place at the 2011 future cities competition.
- Continue our participation in the Rube Goldberg competition, which encourages young people to think outside the box.

Gold: The PES NY Chapter activity recruits from recent graduates in its effect to be inclusive of the GOLD Chapter members for service on the various committees. A separate membership list is maintained and programs of special interest to this group are held regularly. The hours of meetings and agenda items are designed to enhance participation knowing that younger members have special social and family commitments that need to be addressed in this highly competitive business environment.

Forum at City College: The Committee Chairman, presented at City College to a class of over 50 students on IEEE PES programs. A new chair was appointed to facilitate meeting College Chapters.

New York Chapter

Criteria 3b

Student Activities Programs

An example of dynamic programs to which students are invited are listed below.

Scholarship: One major accomplishment was the establishment and continuation of the college tuition scholarship program to encourage power engineering in the New York Area. Ten colleges were contacted to develop a power engineering program.

Power Engineering Society and Industrial Applications Society (PES/IAS) Joint Chapter Annual Awards Dinner

The 39th awards ceremony of the PES/IAS Chapters (founded in 1929) was held at the ceremony's traditional venue, Pete's Tavern, "The oldest surviving bar in New York" on October 5, 2011. The victuals helped to make the ambiance relaxing and congenial. The veterans of the IEEE exchanged personal and professional news and views, and chatted with the younger set. The award committee's Chair **Ajoy Das** welcomed everybody and later gave a short talk on the tradition of the award ceremony. Then he announced each award, why it was given and its recipient for 2011. The following traditional awards were given and the awardees congratulated:

- PES Outstanding Engineer: **Amitava Dutta-Roy, PhD**
- PES Outstanding Chapter Engineer: **Ralph Mazzatto, PE**
- Forty years of volunteer service to the IEEE (publicity): **William Montgomery**
- Forty years of volunteer service to the IEEE (membership development): **Robert Pellegrino, PE**
- Twenty years of volunteer service to the IEEE (IAS): **Hazem Huss, PE**
- Ten years of volunteer service to the IEEE (program): **Aditi Sardar, PE**

The NYPES/IAS Joint Chapter Student Scholarship (\$1,000) was awarded to **Reynaldo Salcedo**, a student member of the IEEE who is pursuing his PhD degree at NYU Poly. Salcedo's research adviser Prof. Francisco de León was also invited to the awards ceremony.

The tradition is that the PES/IAS Joint Chapter invites a well-known specialist in power engineering to give a keynote speech. This year the Joint Chapter invited Dr. Swarn Kalsi, who is also a member of the IEEE and the NY Section, to give the keynote presentation. Dr. Kalsi is a specialist in superconductors. Wiley/IEEE has published his book, *Applications of High Temperature Superconductors to Electric Power Equipment* (ISBN 978-0-470-16768-7). Ajoy Das called upon **Dr. Kalsi** to give his speech on superconductors. Dr. Kalsi has agreed to share his slide presentation with our readers.

The other speaker at the dinner was Reynaldo Salcedo, the recipient of the annual scholarship. We are happy to comment that this is the first time during this year that we have received such a complete paper from a student member.

New York Chapter

Criteria 4a

Advancement

Senior Members: The Awards Committee Chairman, Ajoy Das, P. E., and his committee continued the excellent work that has been done for a number of years in recognizing dedicated Chapter members who are eligible for Senior Member upgrade and encouraging their action. Five Executive Committee members were nominated for Senior Member in 2011: Farzad Haghi, Sharene Williams, Thomas Villani, Donald Burkart, and Chris Kwong.

Outstanding Engineer: The 2011 Award Chapter Chairman, Ajoy Das, P. E., presented PES Outstanding Engineer Award to Mr. Amitava Duta-Roy and the Chapter Outstanding Member Award to Ralph Mazzatto at the 2011 Awards Presentation. The Awards Chairman presented a Chairman's Pin to William Montgomery and William Montgomery presented a Past Chairman's Pin and Chairman's Plaque to Neil Weisenfeld.

Service Awards: Recognition of service to the Chapter is also of great importance to reward those individuals who volunteer their time and effort for the maintenance and advancement of their profession. The Awards Chairman recognized 40 Years of Service: Robert Pellegrino and William Montgomery, 20 Years of Service: Hazem Huss, and 10 Years of Service Aditi Sardar. Within three months of the close of each year, a Chapter Awards Event is held to recognize awardees. A keynote speaker is invited to talk about a topic relative to the PES Chapter and IEEE. Since 1971, 159 Service Awards have been given to members.

Outstanding Chapter Award: Ajoy Das was acknowledged 2nd Place for the special IEEE PES Award
Special Additional Awards:

2011 IAS Outstanding Chapter Award

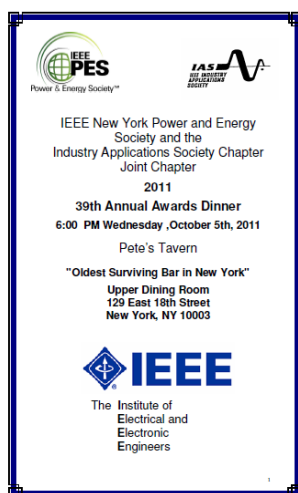
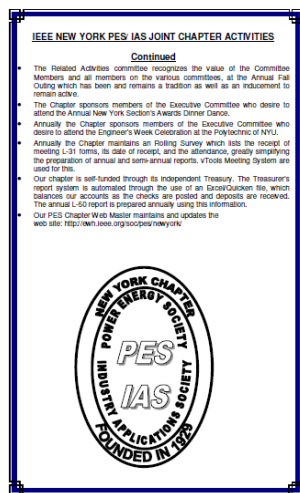
2011 PES High Performance Chapter Award.

IEEE Regional Award –William Montgomery - Outstanding Support for the Mission of IEEE & Leadership

IEEE Regional Award – Arnold Wong - Outstanding Support for the Mission of IEEE & Leadership

IEEE Regional Award – Thomas Li - Outstanding Support for the Mission of IEEE & Leadership

IEEE Regional Award – Sukumar Alampur - Outstanding Support for the Mission of IEEE & Leadership




Student scholarship winner Reynaldo Sacedo flanked on left William Montgomery Chapter Chair and Adjoy Das Awards Chair on right

New York Chapter

Criteria 4a

Advancement




IEEE New York Power and Energy Society and the Industry Applications Society Chapter Joint Chapter

2011

39th Annual Awards Dinner
6:00 PM Wednesday, October 5th, 2011

Pete's Tavern
"Oldest Surviving Bar in New York"

Upper Dining Room
129 East 18th Street
New York, NY 10003



The Institute of Electrical and Electronic Engineers



Awards Committee
Ajoy Das, Chair

Committee Members
William F. Montgomery
Ralph Mazzatto
Michael Miller
Robert Pellegrino
Paul Santoro

PES Outstanding Engineer
Amitava Dutta-Roy, Ph.D.

PES Outstanding Chapter Engineer
Ralph Mazzatto, P.E.

NY PES/IAS Joint Chapter Service Awards

William Montgomery	Publicity	40 Year
Robert Pellegrino	Membership	40 Year
Hazem Husa	IAS	20 Year
Adis Sardar	Program	10 Year

NY PES/IAS Joint Chapter Student Scholarship
Reynaldo Sacedo NYU-Polytechnic University



40 Years of Service
Robert Pellegrino



Student Scholarship
Reynaldo Sacedo



10 Years of Service
Aditi Sardar

IEEE NEW YORK PES/ IAS JOINT CHAPTER ACTIVITIES

- The Program Committee holds 12 meetings a year mostly at the Con Ed building at 14th St and Irving Place with an average attendance of 67 up from 50 in 2009.
- The Education Committee coordinates with PERC inc P.E. review course sessions in all three major disciplines. Students attend classes in preparation for signing and Fall exams.
- A C&I Program was established in 2007 to encourage Professional Engineers to attend and benefit from our monthly presentations and receive continuing education credits.
- The Publicity Committee maintains the Best Customer Meeting List for use in notifying previous attendees members and non members of upcoming monthly Program and Technical Discussions. I&AS e-note is used to notify all members in NY Section.
- Public Affairs Committee writes letters to local elected politicians offering the Chapter's technical support in case help is needed to explain the distribution of electrical energy in the NYC area.
- The Student Activities Program continues developing strong relationships with area colleges and universities. A yearly college scholarship has been established in conjunction with the Education Committee. In coordination with the Polytechnic of NYU, we presented activities of interest to students and future PES/IAS I&AS members.
- The Awards Committee continues to strive to provide recognition for all members who qualify for advancement and recognition. Qualified Members of Chapter's Executive Committee Members are advanced to Senior Member. New Executive Committee Members are encouraged and supported to upgrade membership prior to qualification. The Awards Committee also recognizes the service of individuals and are honored with the presentation of plaques at our annual Awards dinner ceremony. The awards include the PES Outstanding Engineer Society Award, The PES Chapter Outstanding Engineer Chapter Award and service awards for 10, 20, 30 and 40 years are given.
- The Nominations Committee continually seeks out dedicated eligible members from the local NY PES/IAS area for possible promotion to the EDCCOM. The new slate of officers is voted in continuing a tradition of advancement at all levels.
- Our Membership Development Chairman, in cooperation with the Technical, Program and Education Committees, practices applications at monthly presentations to attendees who are not presently members of I&AS promoting membership in I&AS Societies, and in particular the PES/IAS Chapter. The Chairman has worked closely with the NY Section's GOLD Programs, Women in Engineering, Society of Hispanic Professional Engineers, and the American Association of Blacks in Energy Programs to foster new membership.
- The Chapter Executive Committee holds 10 monthly meetings at Consolidated Edison Company headquarters, as many members of the Committee are Con Ed employees.



PES Outstanding Engineer
Amitava Dutta-Roy, Ph.D.



PES Outstanding Chapter Engineer
Ralph Mazzatto, P.E.

IEEE NEW YORK PES/ IAS JOINT CHAPTER ACTIVITIES

Continued

- The Related Activities committee recognizes the value of the Committee Members and all members on the various committees, at the Annual Fall Outing which has been and remains a tradition as well as an inducement to remain active.
- The Chapter sponsors members of the Executive Committee who desire to attend the Annual New York Section's Awards Dinner Dance.
- Annually the Chapter sponsors members of the Executive Committee who desire to attend the Engineer's Week Celebration at the Polytechnic of NYU.
- Annually the Chapter maintains an Filing Survey which fills the receipt of meeting L-31 forms, in case of receipt, and the attendance, greatly simplifying the preparation of Annual and semi-annual reports. vTools Meeting System are used for this.
- Our chapter is self-funded through its independent Treasury. The Treasurer's report system is automated through the use of an Excel/Quicken file, which balances our accounts as the checks are posted and deposits are received. The annual L-60 report is prepared annually using this information.
- Our PES Chapter Web Master maintains and updates the website: <http://www.iesee.org/newyorkny>.



New York Chapter

Criteria 4b

Nominations

During 2011, nominations were made and approved by the Nominations Committee for Chapter Outstanding Engineer award and for Regional Engineer award.

Both awards were presented at the appropriate time. The Regional Engineer Award was presented at the Awards Dinner Dance, and the Chapter Outstanding Engineer Award was presented at the Chapter Awards Dinner. Chairman William F. Montgomery and his committee members are always diligent in keeping records and staying informed as to membership's aspirations and actual deeds warranting special recognition by the Chapter. An area of special interest to the Chapter is soliciting recommendations for potential Fellow candidates from PES/IAS arena. The Chapter worked on recommendations in 2011 and is presently engaged in the process of endorsing PES members to Fellow grade. The New York Chapter promotes membership advancement, sponsors Fellow nominations, IEEE, and PES awards. The chapter has promoted and recognized their members and those of the Section in all of the following ways:

a) Advancements in IEEE grade to senior member.

The Awards Committee Chairman, Ajoy Das, P. E., and his committee continued the excellent work being done for a number of years in elevating dedicated Chapter members who are eligible for Senior Member upgrade and encouraging their selection. Five Executive Committee members were nominated by the Chapter for Senior Member in 2011:

1. Farzad Haghi - Approved
2. Sharene Williams – Submitted and Pending
3. Thomas Villani – Submitted and Pending
4. Donald Burkart – Submitted and Pending
5. Chris Kwong – Submitted and Pending

b) Selection of a candidate for the PES Chapter Outstanding Engineer Award.

Amitava Duta-Roy, Section Monitor Editor, was selected this year.

c) Selection of a candidate for the Chapter Outstanding Member Award

Arnold Wong, Chapter Vice-Chair, was selected this year.

d) Nominations for an IEEE Region 1 award.

Four NY Chapter members were selected by the Chapter and honored with Region 1 awards:

1. William Montgomery - Outstanding Support for the Mission of IEEE For leadership and promotion of Section and Chapter activities in the New York Section
2. Arnold Wong - Outstanding Support for the Mission of IEEE For leadership and program development for the New York Section
3. Thomas Li - Outstanding Support for the Mission of IEEE For leadership and development of educational programming for the New York Section
4. Sukumar Alampur - Outstanding Support for the Mission of IEEE For leadership and program development for the New York Section.

New York Chapter

Criteria 4b

Nominations

e) Fellow Awards in 2011 for the New York Section:

1. Dakshi Agrawal *for contributions to theory, analysis, and design of efficient, secure, and privacy-preserving communication systems*
2. Wilfried Ernst-August Haensch *for contributions to metal–oxide–semiconductor field-effect transistor device physics and scaling*
3. Ching-Yung Lin *for contributions to network science and multimedia security and retrieval*
4. Oleg A. Mukhanov *for leadership in research and development of superconducting digital electronics*
5. Sharatchandra Pankanti *for contributions to biometrics and surveillance systems*
6. Paul C. Sajda *for development of brain-machine interfaces for image and media search*
7. Valentina Salapura *for contributions to the architecture and design of multiprocessor systems*
8. M. Umit Uyar *for contributions to conformance testing theory and practice*
9. James Warnock *for contributions to circuit design of high-performance microprocessors*

f) MGA Awards

Two NY Section officers were honored with MGA awards, the Chapter endorsed the first, and the Chapter nominated the second.

1. Balvinder Bhal-MGA GOLD Achievement Award-For extraordinary contributions to GOLD, Student Activities, Section, and Chapter level activities that encourage and engage the next generation of IEEE members and leaders
2. Darlene E. Rivera-MGA Achievement Award- For innovative, influential leadership, encouraging member engagement and development in the IEEE New York Section

New York Chapter

Criteria 5

Membership Development

Membership Committee Chaired by Neil Weisenfeld:

Our goal is to enlist new PES members in the chapter. Our Chapter is located in a large metropolitan area with a very stable population not subject to change. We have many very extensive programs to recruit members that include encouraging engineers who have recently joined the field to become actively involved in PES activities at the local and national level.

- Continue to expand our membership by soliciting engineers within Con Edison, and the New York City Transit Authority as well as other companies with whom our executive committee members are associated.
- Provide incentives for existing IEEE members to join PES
- Continue our career development and leadership seminars targeting the junior engineers.

Student Activities Committee:

- Strengthen our existing partnerships with IEEE student chapters in the New York City area.
- Continue to encourage and support technical/social events at various universities.
- Continue our support of the Future Cities competition.

Our Membership Development Chairman, Neil Weisenfeld, and his committee, focus their membership efforts on both recruiting and retention. These efforts are directed toward industry professionals as well as students. Their membership efforts are directed to professionals at target companies with which the Executive Committee members are associated as well as other companies in the Chapter's area. Targeting the membership efforts in this way provides the greatest return on effort.

Recruiting: The membership recruiting activities are focused around several venues: technical and education meetings, presentations done at local universities and general university activities such as career fairs, etc. The Membership Committee, in cooperation with the Technical and Education chairmen makes PES applications available at all technical meetings and in particular at our Educational Program activities. The applications are obtained from IEEE Headquarters in Piscataway, NJ. Moreover, we maintain a list of all who attend our meetings. We encourage joining by offering CEUs (continuing educational credits) and give a discount for IEEE/PES members.

Retention: The Technical Programs utilize an attendance list asking for names, addresses, email addresses, membership in PES, IEEE, and asking non-members to join. Upon receipt of an affirmative response, the Membership Development Chairman sends a follow-up letter to the individual along with a membership application. Our total PES/IAS New York Chapter has increased to 1,370+ members.

New York Chapter

Criteria 5

Membership Development

The Committee was able, through their efforts, to welcome new members to the IEEE from:

Brooklyn Polytechnic University
Cooper Union College
Manhattan College
City College

Outreach: The PES Student Committee members attended and became involved with the AABE (American Association of Blacks in Energy) scholarship reception and networked with high school students who were both recipients of AABE scholarships and attendees. Opportunity was given for the benefit of IEEE Student membership. Many IEEE applications and business cards were distributed.

PES Membership Committee hosted the annual elections and two other meetings including the year-end meeting for SHPE, Society for Hispanic Professional Engineers and distributed approximately 75 IEEE applications.

The Chapter subsidizes, upon request, the cost of any Executive Committee member for a second technical society membership in either PES or IAS if the member pays for their primary society membership.

We have a very strong GOLD program and our best results come from our “Best Customers List” which is a list of those who repeatedly attend presentations and where we retain their email addresses and use this list to advertise new events. We offer CEU, continuing educational credit through the IEEE for our 12 session seminar and this is an effective drawing card for new members.

New Members: The New York / Long Island Joint Chapter were separated in 2009 with the loss of 72 members from the Long Island Section, dropping the total from 311 to 239. With our **aggressive** and extensive recruiting and membership drive we increased to 258 in 2009 and for the year end 2010 total of 268; an increase of 4% over the newly separated New York Chapter's membership.

Our enhanced programs and outreach have strengthened the society, community, and public awareness of the roll engineers play in the power industry. We have allowed for an increase in networking among our members who seek job opportunities and have encouraged students to join and participate in activities. We have maintained an ongoing GOLD program to accept these members and integrate them within the society. Other highlights include:

- Sponsoring Professional Engineering Review Courses
- Creating an environment where engineers can network and interact.
- Providing opportunities for rewards and advancement.
- Conducting technical and educational programs.

New York Chapter

Criteria 5

Membership Development

- Staffing Student Study Groups for Fundamentals of Engineering Exam.
- Creating an ad campaign to make others aware of engineering opportunities.
- Participation in regional activities through other chapters and organizations.
- Attendance at the society and milestone events.
- Using regional facilities such as METSAC, MTACC, MESC.
- Creating awareness of programs through the Monitor and E-notice

We have advanced our volunteer members to higher ranks within the IEEE, given generous awards to all those who actively support the chapter and encourage leadership throughout the ranks. We continually seek new volunteers and have increased the membership on our executive board filling all openings with new members. Moreover, we are able to fill all executive positions every year with new members and advance those to higher levels. This program allows every member to reach the position of Chair after significant training and develops the future leaders of the PES/IAS and IEEE. Many of our members serve in regional positions and within the staff of the IEEE and PES. Currently two members were elevated to Senior Membership

PES Outstanding Engineer Award Society: Amitava Dutta-Roy, PhD

PES Outstanding Engineer Chapter Award: Ralph Mazzatto

40 Years of Volunteer Service: William Montgomery

40 Years of Volunteer Service: Robert Pellegrino

20 Years of Volunteer Service: Hazem Huss, PE, for IAS

10 Years of Volunteer Service: Aditi Sardar, PE

2011 IAS Outstanding Chapter Award.

2011 PES High Performance Chapter Program

2011 PES Outstanding Large Chapter Award, Runner-up

New York Chapter

Criteria 5 Membership Development



PROGRAM COMMITTEE

- | | | | |
|----------|--|---|---|
| (Arnold) | A. Wong
Con Edison, Co.
4 Irving Place 6 NE
New York, NY, 10003 | Chairman | (212) 460-4189
wongar@coned.com |
| (John) | J.A. Michelson
1 Servan Place
Verona, NJ 07044 | Sr. Past Chair-
man and Program
Committee | (973) 782 - 8849 (H)
(973) 782 - 8878 (F)
MichelsonJA@verizon.com |
| (Thomas) | T. Vitan
Con Edison, Co.
4 Irving Place 6th Flr
New York, NY, 10003 | Member | (212) 460-1280
vitantr@coned.com |

- ### NOMINATING COMMITTEE
- | | | | |
|---------|--|----------|--|
| (Ralph) | R. Mazzotta
Con Edison, Co.
4 Irving Pl, 6th Flr
New York, NY, 10003 | Chairman | (212) 460-4523(B)
(212) 529-0463(Fax)
mazzotta@coned.com |
| (Paul) | P. Sartori
Con Edison, Co.
4 Irving Pl, Box 1200
New York, NY, 10003 | Member | (212) 460-4349(B)
(212) 529-0463(Fax)
sartori@coned.com |
| (Rob) | R. Pellegrino
Con Edison, Co.
4 Irving Place Box 1200-S
New York, NY, 10003 | Member | (212) 780-3758(B)
pellegrino@coned.com |

- ### AWARDS COMMITTEE
- | | | | |
|---------|--|----------|---|
| (Alyn) | Alyn P.E.
Washington Group Intl.
582 Carnegie Center, 22/F
Princeton, NJ, 08540 | Chairman | (609) 720-3378(B)
(609) 847-7628 (cell)
Alyn.Duff@wgi.com |
| (Ralph) | R. A. Mazzotta
Con Edison, Co.
4 Irving Pl Box 6th Flr
New York, NY, 10003 | Member | (212) 460-4523(B)
(212) 529-0463(Fax)
mazzotta@coned.com |



EDUCATION COMMITTEE

- | | | | |
|----------|---|--------------------------------|---|
| (Tom) | T. U. P.E.
Parsons Brinckerhoff
1 Penn Place
New York, NY, 10029 | Chairman | (212) 460-2429(B)
(212) 460-5863 (Fax)
tucunoff@parson.com |
| (Mike) | M. Soudanian
Con Edison, Co.
4 Irving Place 6th Flr
New York, NY, 10003 | Member
PERC
Co-ordinator | (212) 460-4407(B) |
| (Harold) | H. Buchanan, P.E.
Consultant
533 Westchester Blvd
Morris Township, NJ,
08853 9996 | Webmaster | (609) 409-2425(B)
h.buchanan@perc.org |
| (Rob) | R. Pellegrino
Con Edison, Co.
4 Irving Pl Box 1200-S
New York, NY, 10003 | Publicity | (212) 780-3758(B)
(212) 780-3777(Fax)
pellegrino@coned.com |
| (Bill) | W. Fairless
Consultant
267 Buchanan Ave
South Orange, NJ,
07079 | Member | 973-763-9362(B)
973-763-7238(Fax)
wfairless@att.net |
| (John) | J. Barozzani
Parsons Brinckerhoff
1 Penn Place
New York, NY, 10029 | Member | (212) 460-5909(B)
(212) 460-5863 (Fax)
barozzani@parson.com |

Power & Energy Society and Industry Applications Society New York Chapter

2011 FALL OUTING
Friday, September 16th, 2011

THOSE AMAZING ENGINEERS ... AND THEIR ELECTRIC CARS!

2011
Committee Members Only
(Rain or Shine)

THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERING



SPECIAL EVENTS COMMITTEE

- | | | | |
|---------|--|--|---|
| (Frank) | F. Schuk, P.E.
316 Pinyan Terrace
Tinton Falls, NJ, 07753 | CO-Chairman
Special Events
Committee | (732) 643-1423
Fschuk@verizon.net |
| (Rob) | R. Pellegrino
Con Edison, Co.
4 Irving Place Box 1200-S
New York, NY, 10003 | CO-Chairman
Special Events
Committee and NY
Section Membership
Development | (212) 780-3758(B)
pellegrino@coned.com |



PUBLIC AFFAIRS COMMITTEE

- | | | | |
|---------|--|--------------------------------------|--|
| (Frank) | Frank
201 W 76th St Apt 1A4
New York, NY 10023 | Chairman Public Affairs
Committee | (917) 702-0526(cell)
frank@nyc.com |
|---------|--|--------------------------------------|--|



New York Chapter

Criteria 6

Chapter Chair's Report

We organized a team of dedicated, committed chapter officers, and a committed Chapter Representative toward winning the Outstanding Chapter Award. Our team consists of outstanding players that form the executive committee. Our secretary, Sharene Williams recorded minutes, our Treasurer, Farzad Haghi, insured that we had the funding for our programs, our Chapter Representative, Ralph Mazzatto, insured that we knew the PES goals, and gave us the direction and the requirements for the Outstanding Chapter Award. People were assigned to specific tasks for each criterion listed and then held responsibility for meeting the goals and objectives. Monthly meeting insured progress and determined areas needing improvement.

Our team first agreed on the proposed goals:

- Provide services to local society members.
- Bring information and knowledge to the engineering community.
- Be a Place for Networking and discussion.
- Provide a basis for Leadership Training and development.
- Represent and integrate Society member's interest and goals.
- Since chapters are where everything happens, thus making activities relevant.

Based on these objectives we organized and dedicated the chapter to "win."

The members of our team were as follows:

Robert Pellegrino, Special Events Committee CO-Chairman, Membership Development, METSAC Council Vice Chair (Regional position) and Region 1 Southern Area Chair-Elect (Regional position), acted to coordinate membership activities across the Society, Section, and Region while monitoring developmental activities like nominations and adherence to by-laws.

Neil Weisenfeld Junior Past Chairman and Membership Committee Chairman worked our hardest task of increasing membership. Neil servers also a Section Membership chair coordinating this very important function. Neil and his committee work on a very important program for membership development they focus on both recruiting and retention. These efforts are directed toward industry professionals, engineers, Gold members, as well as students. Their membership effort is directed at target companies where the Executive Committee is associated as well as other companies in the Chapter's area. Targeting the membership efforts in this way provides the greatest return on the effort extended.

Michael Miller, Senior Member-at-Large worked on securing continuing educational units, meeting publicity, and provide support where needed.

Sukumar Alampur, Senior Past Chairman and Technical Discussion Group Committee Chairman provided speakers for various events, organized our Arc Flash Analysis Programs, which generated funds, and provided technical information for many members.

Thomas Li, Education Committee Chairman, worked tirelessly to promote our educational activities especially the PERT, Professional Engineering Review Training, courses.

New York Chapter

Criteria 6

Chapter Chair's Report

Arnold Wong, Vice Chairman, and Program Committee Chairman acted to monitor progress and at the same time to orchestrate our Technical and Educational programs.

Ajoy Das, Senior Past Chairman, Awards, Bylaws, and Procedures Chairman. Every organization needs someone to acknowledge achievement of the members and work force and insure continuity over the years. Mr. Das organized our awards evening, secured speakers, and more importantly designated who would receive our most coveted Outstanding Engineer's Awards, Chapter Awards, and Scholarship.

Paul Sartori, Related Activities Committee Chairman, runs, organizes, and presides over our much regarded Fall Outing, the function we have to reward both past and present committee Chair and members for the effort on behalf of the PES/IAS Joint Chapter. Paul, in addition, monitors through what we call the rolling survey that all activities are properly reported through L-31s and thus logged in.

Harold Ruchelman, Chapter, Section, Region Webmaster. Hal insures that all activities are posted on the Chapter's Web Site, that our membership receives the very latest information on activities and other events.

Andy Woo, Student Activities Chairman, provides an important transition between our student members and active chapter members. Andy insures that students understand that PES does not end on the College Campus; but there is a place for all PES members' students, Gold, and associates.

Thomas Villani, Junior Member-at-Large, is in a transitional phase where he is learning the operation of the Chapter before assuming executive office. Our transitional policy is to give each and every prospective executive committee member two years to learn the ropes before we ask them to assume a leadership position. While in transition, Tom helps with our Gold Program.

This is our executive committee dedicated to meet, establish deadlines, and periodically review of our goals as we move forward to implement and follow through on our plan to obtain the Outstanding Chapter Award. Throughout this process, we keep our Chapter Representative well informed of all activities, and submit the nomination form with all requested information. Thus, our endeavor is to provide service to our members in the technical areas. The next section will be listing the service measures, activities in all of the following areas: technical programs, educational programs, tutorials, short courses, lectures, and other activity directly related to the education of our members. This would include demonstrated activity by PES Volunteers, PES Public Affairs, and leadership in IEEE Section activities concerning matters oriented to the public. It would also include activity to improve communications with chapter membership, to promote the development of the engineering profession, and to recognize the service of the chapter and its members. We have organized activity relative to students including demonstrated activity with respect to IEEE Student Branches at the college level and with students in grades K-12. On Dec. 7, 2011 Robert Pellegrino gave a presentation on "Benefits and Opportunities of IEEE Membership in the Transition from Student to Professional" at the New York City College of Technology. Approx. 25 students and some professors attended the event.

We promote membership advancement, Fellow nominations, IEEE and PES awards. These measures were evident in the preceding pages that the chapter has promoted and recognized their members in all of these categories.