



The IEEE

Newsletter

NJ IEEE/ASME Meeting

“Design, Construction and Applications of Electrostatic Precipitators” will be the topic of discussion at the Joint ASME/N. J. IEEE Annual Meeting, to be sponsored by the North Jersey Section Power Engineering Chapter on October 23, 1975, at Jersey Central Power & Light Co., Morristown, N. J.

Gary Gawreluk, applications supervisor for Research Cottrell, Inc., will discuss the theory of electrostatic precipitators, the elements of construction, and the design considerations that are used. He will also discuss various industrial applications and the future uses of electrostatic precipitators.

Time: 7:30 P. M., Thursday, October 23, 1975.

Place: Jersey Central Power & Light Punchbowl Room, Madison Ave. at Punchbowl Rd., Morristown, N. J.



Let's Develop Synergy

By Ken Oexle
Member - at - Large

No, it's not a new form of energy. Rather it is a phenomena that has been known to exist for years.

When the action of forces combine in such a manner that the total effect is greater than the sum of the effects taken independently a synergy has occurred.

Applied to the North Jersey Section, those forces are the other nearly 5,000

members of the Section. Working together — synergistically — we can strengthen the technical and human resources available within the section, while aiding in each other's professional growth and development. This requires open lines of communication, support of activities in the Section and your willingness to actively participate in the various committees of the Section and the local chapters.

The Section Communicates directly to you each month through the Newsletter. But, we need feedback. We need to know your thoughts about meeting topics, format, location and time. Your preferences in education programs and your interest in full day seminars will be valuable in planning future activities. Use the FEEDBACK CARD published in the Newsletter, or contact one of the members of the various committees directly about your viewpoints. Better yet, appear personally and express your opinions at an Executive Committee meeting. They're scheduled on the first Wednesday of each month.

Make an effort to attend the activities

sponsored by the Section and the local chapters. In addition to adding to your storehouse of knowledge, you will have the opportunity to develop new professional acquaintances; explore new concept with your peers; and share experiences with others in your field. Plan to attend the student programs conducted by the Section and the Power Chapter, and experience the feeling of self-satisfaction in counseling student members in their career and education goals.

The Section is the hub of IEEE activity in North Jersey. The range of services offered depends on you. Step forward and volunteer your services on one of the Section or technical chapter committees. You will be associating with professionals in both the academic and business communities while helping to plan and develop technical and non-technical meetings, seminars and continuing education programs.

Your membership in IEEE and the North Jersey Section provides access to many roads for professional growth and development. Why not travel them?

You And Awards — An Invitation To Nominate

One of the major objectives of IEEE is the recognition of outstanding achievement of its members. Your Awards Committee has the responsibility to see that every member of the North Jersey Section who may be eligible for an award receives consideration. We need your help in identifying those that should be considered.

The Institute Awards fall into a number of categories. These are: (1) Medal of Honor, (2) Major Annual Medals, (3) Field Awards, (4) Society Awards (5) Section Awards, (6) Prize Papers and (7) Scholarships. The first two aim at the recognition of significant general achievement for the profession. The field awards recognize unusual accomplishments in the scope of the particular technical society or group of the IEEE. Section awards are for outstanding service in the Section activities. Prize papers honor outstanding papers published while the scholarships aim at support for outstanding students.

Another most important area of activity of your committee is the review and support of nominations for Fellow grade. This is the highest member grade and is obtainable only by invitation of the Board of Directors. It is conferred to senior members of unusual professional distinction who have made important and outstanding contributions. Each year nominations must be submitted and supported. North Jersey has numerous candidates, and your suggestions are important. The Fellows deadline is April 30.

In all cases a member cannot propose himself, so he is dependent on others to recognize him. Please review your colleagues and acquaintances and SUGGEST NOW is important as forms and such be completed and reviewed before the deadlines.

A brief outline of the awards with nomination deadlines follows, and for any information please contact: *J. L. Blackburn, Chairman Awards Committee, Westinghouse Electric Corp., 95 Orange Street, Newark, N. J. 07101, (201) 465-2940.*

THE IEEE AWARDS

NOMINATION DEADLINE	AWARD	TYPE AWARD	DESCRIPTION
Sept. 15	W.R.G. Baker	Prize Paper	Outstanding paper in any of the IEEE Transactions issued between July 1 and June 30.
Sept. 15	B.J. Thompson	Prize Paper	Best paper by author(s) under 30 years of age in any IEEE publication issued between July 1 and June 30.
Feb. 15	Power Life	Power Eng. Society	Recognition of Power Engineers who have made significant contributions to the harmonious development of man and his environment.
April 1	Harry Diamond	Field	Outstanding technical contribution by a person in the field of Government service.
April 1	William M. Habirshaw	Field	Outstanding contribution in the field of transmission and distribution of electric power, to an individual or group.

April 1	International Communication	Field	Outstanding contribution in the field of international communication, to an individual or group.
April 1	Mervin J. Kelly	Field	Outstanding contribution in the field of telecommunication, to an individual or group.
April 1	Morris E. Leeds	Field	Outstanding contribution in the field of electrical measurement, to an individual or group. Special consideration given to value of contribution made before candidate reached 36th birthday.
April 1	Morris M. Liebmann	Field	Important contribution to emerging technologies recognized during preceding three calendar years.
April 1	Frederik Philips	Field	Outstanding accomplishments in the management of research and development resulting in effective innovation in the electrical and electronics industry.
April 1	David Sarnoff	Field	Outstanding contribution in the field of electronics, to an individual or group.
April 1	Vladimir K. Zworykin	Field	Outstanding technical contribution in the field of electronic television.
April 30	Fellow Nominations		
June 1	Medal of Honor		Awarded for a particular contribution which forms a clearly exceptional addition to the science and technology of concern to the Institute. The award shall normally be given within a few years after the recognition of the exceptional nature of such contribution.
June 1	Edison Medal	Major	A career of meritorious achievement in electrical science or electrical engineering or the electrical arts.
June 1	Founders Medal	Major	For major contributions in the leadership, planning, and administration of affairs of great value to the electrical and electronics engineering profession.
June 1	Lamme Medal	Major	Meritorious achievement in the development of electrical or electronic apparatus or systems.
June 1	IEEE Education Medal	Major	Excellence in teaching and ability to inspire students; leadership in electrical engineering education through publication of textbooks and writings on engineering education; innovations in curricula and teaching methodology; contributions to the teaching and engineering profession through research, engineering achievements, technical papers, and participation in the education activities of professional societies.

Section Meetings Set

Save the following dates:

- Wednesday, Oct. 8, 1975
Wednesday, Nov. 12, 1975
The topics are:
- North Jersey IEEE
Oct. 8 — Ms. Quayne Gennero - Professional Activities
Nov. 12 — Mr. Norm Bleshman - How you can contribute to IEEE Standards.

The meetings will be held in the Punchbowl Room of Jersey Central Power & Light at Morristown, N. J. at 7:30 P. M.

This year's 2nd Section Meeting, titled, "Socio-Economic Activities," will be held Oct. 8. The thrust of the meeting will be to outline some areas of activity open to the Socio-Economic Activities Committee, such as:

- Positions regarding legislation as it effects E. E.'s
- Environmental questions relating to E. E.'s
- Economic issues and their impact on E. E.'s
- Employment: easing current impact on E. E.'s; exerting influence on future supply and demand of E. E.'s

Since the most pressing issue seems to be employment, the Committee will cover its proposal for an Employment Assistance Program for North Jersey.

In conclusion, the floor will be opened to the membership to determine its ordering of the priorities of these activities, and to elicit suggestions for other activities.

The Meeting will be conducted by Ms. Quayne G. Gennaro, P. E., recently elected a director at Eta Kappa Nu. Time: 7:30 P. M., Wednesday, October 8, 1975.

Place: Punchbowl Room, Jersey Central Power & Light, Madison Avenue at Punchbowl Rd., Morristown, N. J. From North take Madison Ave Exit.

Confidential!!
Inside Plans of COMSOC

By Bill Sehr

This reporter recently learned of a meeting held by the Officers of the North Jersey Section of the Communications Society in the desolate Ramapo Mountains. Amidst a stormy session, featuring several dramatic outbursts, an outline of activities was hammered out as follows:

- October, 1975: Lecture: "Analysis of AT&T's Latest Tariff Structure."
November, 1975: Tour of an AT&T Site.
December & January, 1976 : Nothing scheduled due to experiences of previous years with calamities involving weather and holidays.

February, 1976: "The SDLC Protocol."

March 1976: Lecture: "A New Weather Reporting System"
April, 1976: Tour of an earth station for a satellite Communications System.

May, 1976: Lecture : (One of these) "Adaptive Multiplexing" or "The Packet Switching Situation".

June, 1976: "Word Processing and Communications".

While these plans indicate an effort to channel COMSOC activities into a disciplined overall approach, many questions are still open. What about different interests of the other 280 North Jersey COMSOC members?

This reporter advises all COMSOC members to contact the Officers about what they want! To do this call: Chairman Al Favorito at (201) 529-4600, Ext. 2047; Vice Chairman Bill Sehr at (201) 529-4600, Ext. 2010; Secretary Brad O'Brien at (201) 529-1170; or Program Chairman Alex McPhee at (201) 967-9415.

Annual Student Night

The Eighth Annual Student Night Activity, sponsored by the Power Engineering Society Chapter of the N. J. Section IEEE, will feature Kenneth J. Oexle, manager — system planning, Jersey Central Power & Light Co., acting as moderator for a panel of recent engineering graduates from the power industry. The panel will address the topic, "The New Engineer in the Power Industry". Panel members will describe their experience since graduating and will give their views of career opportunities available in the power industry.

Meet at the Student Center Cafeteria of the New Jersey Institute of technology at 6:30 P. M. for a free dinner. The meeting will follow at 7:15 P. M. in the Ballroom.

Time: 6:30 P. M., October 9, 1975. Place: New Jersey Institute of Technology, 323 High St. Newark, N. J.

Budweiser Brewery Tour

The New York, North Jersey and Long Island Joint Chapter Instrumentation and Measurements will sponsor a tour of the Budweiser Brewery on Wednesday evening, October 29 at 7:00 P. M. The Brewery, located at 200 U. S. Highway 1, Newark, New Jersey, is easily accessible by car.

The tour of the brewery will take one hour and will be followed by one to two hours of Budweiser refreshments and movies. Persons over 18 years are invited.

Reservations for this tour are limited. Please mail your reservation to: Mr. D. Roerty, Westinghouse Electric Corp., 95 Orange Street, Newark, New Jersey,

Grounding Seminar

IEEE New York, North Jersey and Long Island Joint Chapter Instrumentation and Measurements is sponsoring a seminar entitled, "The Art and Science of Grounding," to be held November 13, 1975, at Bell Labs in Murray Hill, N. J.

Fundamentals of grounding, and grounding in communication systems will be covered by speakers from Bell Labs; measuring ground resistance will be discussed by a speaker from J. Biddle Co.; and test equipment grounding will be dealt with by a speaker from Hewlett-Packard Co.

A light lunch and a tour of the exhibit area at Murray Hill will be provided by Bell Labs; reservations must be confirmed.

A fee of \$10 will be charged IEEE members; and a fee of \$15 will be charged non-members. Make checks payable to Joint Chapter, I&M IEEE, and send them to: Ken Jacobsen, RFL Industries, Inc., Powerville Rd., Boonton, N. J. 07005.

Further details are available from: Ken Jacobsen at (201) 334-3100 or Deter Alsberg at (201) 949-3825 or Dave Roberts at (212) 422-4800 Ext. 673.

Time: 9:00 A. M. to 4:00 P. M., Thursday, November 13, 1975. Place: Bell Labs, 600 Mountain Ave., Murray Hill, N. J.

Tariff Change Impacts

Minor S. Huffman, Jr., executive vice president of the Center for Communications Management, Inc. (CCMI), a telecommunications research service company based in Ramsey, N. J., will address the North Jersey Chapter of the IEEE Communications Society at their October 22, 1975 meeting. Mr. Huffman will present an appraisal of the effects, present and future, which will result from the recent rate structure changes for usage of communications facilities.

Within the scope of this lecture, Mr. Huffman will discuss: MTS: Message Telecommunications Service, WATS: Wide Area Telecommunications Service; Hi — Lo Rate Restructuring; The Effects On End-Users Of The Rate Changes; and An Alternative Approach To The Proposed Rate Restructuring.

Prior to joining CCMI at its founding in 1970, Mr. Huffman was President of Data Net International. His 18 years in the telecommunications industry have included positions with Ultronic Systems Corp. (GT&E), The Western Union Telegraph Co., ITT Worldcom, Digitronics Corp., and Teleregister (now Bunker-Ramo). He received his B. S. in 1957 from Southwest Texas State College. At present, Mr. Huffman serves the Center for Communications Management, Inc., as Technical Editor for its numerous

publications, including "The Guide To Communication Services." He is also a continuing contributor to "Datacast", a telecommunications — industry investment letter, published by Paul Kagan Associates.

Time: 8:00 P. M., Wednesday, October 22, 1975. Place: ITT Defense Space Group Auditorium, 500 Washington Ave., Nutley, N. J. (Main lobby entrance near base of microwave tower)
Pre-Meeting Dinner: 6:15 P. M., Copperhood Restaurant, 1 Park Ave., Lyndhurst, N. J. (Just south of Rt. 3)

PE Survey Results

The Power Engineering Society Chapter has recently completed a survey of its members and the results are tabulated below. A total of 87 responses were received, representing approximately 19% of the Chapter's membership.

Meeting Attendance Attendance would be improved if: (1) Meetings were held earlier in the evening; (2) Meetings were held closer to places of employment; (3) Some meetings were scheduled in Essex County; (4) Some meetings were scheduled for the Bergen-Passaic area; and (5) If topics were more job related.

Program Topics Members indicated a preference for the following topics on the survey sheet: Current Limiting Fuses--22; Violent Transformer Failure--19; Vacuum Switchgear--24; Primary Throw-over--12; Protective Relaying--29; Reactive Supplies--15; High Voltage D.C.--26; Underground T&D--31; Supervising Control--21; and Energy Crises--30.

Additional topics recommended for future meetings not included in the questionnaire were: Cable Systems; Rotating Machinery; Reliability; System Planning Practices; and Utility R&D Programs.

Professional Interest It was indicated that programs related to the engineering profession should be scheduled in the following areas: Professional Licensing; Pension Programs; Political Lobbying; Insurance Programs; Engineering Salaries; Patents; OSHA; Local and National Economic Conditions; Undergraduate Engineering Curricula; Unemployment Programs; and Improving Professional Status of Engineers.

Other Non-Technical Programs Strong interest was indicated for facility tours and dinner meetings in the future. It was also suggested by several members that a wine-tasting party be scheduled.

Membership Age distribution expressed as percentage of membership responding: Under 25--2%; Between 25 and 35--26%; Between 35 and 50--37%; and Over 50--35%.

NEWSLETTER STAFF

SECTION OFFICERS
1975-1976

* Denotes mailing address					
NORTH JERSEY SECTION EXECUTIVE COMMITTEE					
NAME & OFFICE	HOME	BUSINESS	NAME AND OFFICE	HOME	BUSINESS
Chairman Robert E. McMillan	*171 Orange Road Montclair, N.J. 07042 (201) 744-6794	N. J. Institute of Technology 323 High St. Newark, N.J. 07102 (201) 645-5467 or (201) 645-5472	Joe Winston Associate Editor	(201) 992-7129	(201) 645-5471
Vice-Chairman James F. Kampschoer	1 Jacque Terrace Whippany, N.J. 07981 (201) 386-1922	*Bell Labs Whippany, N.J. 07981 (201) 386-4135	Publicity Joseph Fink, Jr.	(201) 761-4873	PSE&G Co. 200 Boyden Avenue Maplewood, N.J. 07040 (201) 621-6800 X727
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Secretary Norman A. Bleshman	*165 Ames Avenue Bergenfield, N.J. 07621 (201) 385-4007	PSE&G Co. 80 Park Pl. Newark, N.J. 07101 (201) 622-7000 X2544	Young Engineer Comm. Mrs. Patricia Hanwacker	80 Myrtle Avenue Milburn, N.J. 07041	A. T. T. 195 Broadway New York, N.Y. 10007 (212) 349-6269
Member-at-Large Ken Oexle	84 Schofield St. Newark, N.J. 07106 (201) 372-1393	*J.C.P. & L. Co. Madison Ave. & Punch- bowl Rd. Morristown, N.J. 07960 (201) 539-6111 X488	Intersociety Relations Alex McPhee	169 Chestnut Street Emerson, N.J. 07630 (201) 265-4685	967-9415
Member-at-Large Donald G. Bathke	79 Chimney Ridge Dr. Convent Station, N.J. 07961 (201) 539-4867	Westinghouse 1447 Chestnut Ave. P. O. Box 3000 Hillside, N.J. 07208 (201) 465-2316	Social-Economics-Activities Committee Miss Quayne Golden Genero	2D Burtle Court Highland Park, N.J. 08904 (201) 828-5532	Bell Tel. Lab. Room 1B536 Crawford County Rd. Holm del, N.J. 07733
Jr. Past Chairman Max J. Schindler	*RD 3 Box 77 Boonton, N.J. 07005 (201) 334-2027		Newsletter Managing Editor Michael M. Perugini	Box 455 Mt. Arlington, N.J. 07856 (201) 398-3834	*same (201) 398-5524
Education Al Cox	21 Quince Place North Brunswick, N.J. 08902 (201) 821-8232	Bussman Manufacturing Newark, New Jersey (201) 484-3500	METSAC Representatives Robert McMillan	(see Chairman)	
Awards J. L. Blackburn	211 Spencer Rd. Basking Ridge, N.J. 07920 (201) 766-1680 (Westinghouse Elec. Corp. 95 Orange Street Newark, N.J. 07101 (201) 465-2940	Max J. Schindler	(see Jr. Past Chairman)	
Chapter Coordinator Bernie De Marinis	87 Monmouth Ave. Spotswood, N.J. 08884 (201) 251-2069		IEEE Headquarters		345 E. 47th Street New York, N.Y. 10017 (212) 752-6800
Membership John Abraham	2214 Greenside Pl. Scotch Plains, N.J. 07076 (201) 889-4377	PSE & G Co. Room 612 60 Park Pl. Newark, N.J. 07101 (201) 622-7000 X3085	Membership Services Miss Emily Sirjane	No charge for these calls	(212) 644-7757 (212) 644-7758
Nominations Max J. Schindler	(See Jr. Past Chairman)		Meeting Notice Mailings Mrs. Escala	(must have section chairman's approval)	(212) 644-7751
Program Norbert Yankielun	3 Manchester Dr. Westfield, N.J. 07090 (201) 232-9161	A.E.P. 2 Broadway New York City, N.Y. 10004 (212) 422-4800 X8385	G-3/17 Antennas and Propagation/Microwave and Techniques Chapter Chairman W. Niemic	66 Sky Top Road Cedar Grove, N.J. 07009 (201) 239-4380 239-4389	ITT Nutley, N.J. 284-2333 2323
Publications and Newsletter Editor Ray Vaccari	236 Summit Road Mountainside, N.J. 07092 (201) 232-0237	The Okonite Company Canal & Jefferson Sts. Passaic, N.J. (201) 777-0402 X519	G-5/18/28/29 Multigroup Chapter Chairman Vincent J. Garofano, III	*5 Crest Terrace Montville, N.J. 07045 (201) 227-5386	Litton ARS Morristown, N.J. 07960 (201) 540-0500
			G-7 Reliability Chapter Chairman Sid Markowitz	R.D. 1, Box 636A Lake Hopatcong, N.J. 07849	Picatinny Arsenal PBMO; Bldg. 94 Dover, N.J. 07801 (201) 328-5486
			S-16 Computer Chapter Chairman Maitland McLarin	17 Briar Cliff Rd. Mountain Lakes, N.J. 07512 (201) 335-6847	Picatinny Arsenal Dover, N.J. 07801 (201) 328-3573
			Alternate: W. D. Roome	564-7317	B.T.L. Murray Hill, N.J.
			S-19 Communications Chapter Chairman Al Favorito	5 Dearborn Rd. West Nyack, N.Y. (914) 623-5940	Western Union (201) 529-4600
			S-23 Control Systems Chapter Chairman Dr. Robert De Lucia	23 Freeman St. Roseland, N.J. 07068 (201) 226-2166	N.J. Institute of Technology 323 High Street Newark, N.J. 07102 (201) 645-5494
			S-31 Power Engineering Chapter Chairman John Redmon	(201) 736-4919	PSE&G Co. 900 West Grand St. Elizabeth, N.J. 07202 (201) 353-7000 X545
			Special Projects Coordinator Alan H. Stolpen	2037 Balmoral Ave. Union, N. J. 07083 (201) 687-9226	Singer-Kearfott 150 Totowa Rd. Wayne, N.J. 07970

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
FUTURE MEETINGS: See inside this issue for full information on this month's and any future meetings already announced.			1	2	3	4
5	6	7	8 GEMB MEETING SECTION MEETING	9 ANNUAL STUDENTS' NIGHT	10	11
12	13	14	15 IMPROVING POWER PLANT EFFICIENCY	16	17	18
Columbus Day (Traditional)	Columbus Day (Monday Holiday Bill)					
19	20 KODAK PLANT TOUR	21	22 TARIFF CHANGE IMPACTS	23 NJ IEEE/ASME MEETING	24	25
					United Nations Day	
26	27 Veteran's Day (Monday Holiday Bill)	28	29 BUD BREWERY TOUR	30	31 Copy Deadline For December Issue of The Newsletter	
					Halloween	

GEMB Meeting Set

The Metropolitan New York Chapter IEEE Group on Engineering in Medicine and Biology will present a technical session on "Bio-Electric Isolation Amplifiers: The Essential Ingredient in Physiological Measurement Systems," on Wednesday, October 8, 1975. Featured speaker is Ken Collins, field engineer for Terrasyn, Inc.

For further information, call W. H. Buchsbaum, vice chairman, Metropolitan N. Y. Chapter, IEEE GEMB, at (212) 240-5594.

Time: 7:30 P. M., Wednesday, October 8, 1975.
Place: Rockefeller University, South Lab., Rm. 204, 66th St. and York Ave., New York City.
Pre-Meeting Dinner: 6:00 P. M., Tower Cafeteria, 64th St. and York Ave., N. Y. C.

THIS YEAR: VOTE!

Improving Electric Power Plant Efficiency

The New York and Long Island Sections of the Joint Power Engineering Society and Industry Application Society will sponsor a meeting on Improving Electric Power Plant Efficiencies on October 15, 1975.

Mr. Stuart Hersh of KVB, Inc., and Frank Sweeney, chief engineer mechanical of Nuclear Engineering, Ebasco Services, will discuss the basis by which generating stations can increase their efficiency by greater utilization of equipment and processes inside the plants.

For further information, contact Thomas Klein, Publicity Committee, c/o Con Ed, 4 Irving Place, New York, N. Y. 10003; (212) 460-2894.

Time: 6:00 P. M., Wednesday, October 15, 1975.
Place: World Trade Center, Room 62 South, 1 World Trade Center, New York, N. Y.
Refreshments: 5:30 to 6:00 P. M.

Kodak Tour Planned

The New York Section of the Power and Industrial Division is sponsoring an inspection tour of the Eastman Kodak Color Print and Processing Plant, 16-31 Route 208, Fair Lawn, N. J., on Monday, October 20, 1975. The trip, which starts at 7:00 P. M., will enable photo enthusiasts to see modern facilities for all types of Kodak film processing. The trip is limited to adults; and you are asked not to bring a camera.

You should arrange for your own transportation. Tickets and directions may be obtained by contacting: Mitchell G. Lipinski, 227 Van Nostrand Ave., Englewood, N. J.

All requests must be received by October 13, 1975, and must be accompanied by a stamped self-addressed envelope.

Time: 7:00 P. M., Monday, October 20, 1975.
Place: Eastman Kodak Color Print and Processing Plant, 16-31 Rt. 208, Fair Lawn, N. J.

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