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## **ELECTION OF SECTION OFFICERS**

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#### **NEWSLETTER STAFF**

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### **Newsletter Deadline**

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It is not necessary to inform the North Jersey Section when you change your mailing address. The NEWSLETTER and other section mailings use a list provided by IEEE's national headquarters in New York. This means the Section has no need to maintain a mailing list or addressing plates. Section membership records are changed when Headquarters notifies us.

### SECTION OFFICERS 1972-1973

Chairman	Carl C. Torell
Vice Chairman	Harlan J. Perlis
Treasurer	John Gerth
Secretary	James F. Kampschoer
Member-at-Large	Max J. Schindler
Member-at-Large	Peter F.B. Jackson
Jr. Past Chairman	Robert G. Sokalski

## **Keeping Out of Court**

The North Jersey Reliability Group and the North Jersey Section will sponsor a talk by Richard Jacobs. The last several years have witnessed an astonishing increase in the number of product liability suits. This places the reliability engineer in a key position to minimize financial loss to his organization.

Professor Jacobs is an Associate Professor of Industrial Engineering at NCE and a consultant to industry in areas related to product quality. He is also vice-president of the Reliability Adcom Group and secretary of the Reliability Committee of the International Electrotechnical Commission.

Time: Wednesday, May 16, 8:00 p.m. Place: Singer-Kearfott Division, Conference Room 1A, 1225 McBride Ave., Little Falls, N.J.

Pre-Meeting Dinner: Town Tavern, 10 Van Ness Ave., Little Falls, 6:00 p.m. Contact: M. Swaluk, 256-4000, Ext. 3129, or R. Gauger, 256-4000, Ext. 4010.

## Time Division Multiple Access (TDMS) for Communications

Mr. George J. Goubeaud will address the North Jersey Section Communication Society. The digital TDMA techniques are due, 1977-1978, to replace the analog Frequency Division Multiple Access technique presently used in defense satellite communications systems.

Mr. Goubeaud will indicate the concepts of the TDMA system, the equipment required, and the design of the prototype system. He will also discuss the DSCS Phase II network and how the TDMA will be phased in.

Mr. Goubeaud is with the U.S. Satellite Communications Agency and is presently

Project Engineer on the digital TDMA system being procured for DSCS.

Time: Tuesday, May 15, 8:00 p.m. Place: ITT Auditorium, 500 Washington

Ave., Nutley, N.J.

Pre-Meeting Dinner: Copperhood Restaurant, Lyndhurst, N.J., 6:30 p.m.

## **Latching Ferrite Devices**

The North Jersey Chapter of Microwave Theory and Techniques Group will present John E. Pippin discussing latching ferrite devices. In this talk, the switching characteristics of latching ferrite devices will be discussed and several definitions made of the switching time. The interdependence of the switching-time specifications with several other pertinent variables, such as driver cost, switching energy, and bandwidth will be discussed.

Dr. Pippin received the PhD degree in Applied Physics from Harvard University in 1958. He is a Fellow of the IEEE and President of Electromagnetic Sciences, Inc.

Time: Wednesday, May 16, 8:00 p.m. Place: ITT Avionics (Aud.), 500 Washington Ave., Nutley, N.J.

Pre-Meeting Dinner: Copperhood Restaurant, Lyndhurst, N.J., 6:00 p.m.

## **OSHA** and Power

The Power Engineering Society of the North Jersey Section of IEEE will devote its May meeting to the Occupational Safety and Health Act. Mr. Henry S. Blauvelt, Manager of Methods, Public Service Electric & Gas Company, will speak on the general effects upon the operation of the electric distribution system as affected by Subpart V (Power, Transmission and Distribution Section) of the construction act of OSHA.

Time: Thursday, May 17, 8:00 p.m. Place: Jersey Central Power & Light Company, Madison Ave. at Punch Bowl Road, Morristown, N.J. 17960.

# Mechanical Performance Of Cardiac Muscle

In-vitro, on-line computation of the mechanical performance of cardiac muscle will be discussed by Dr. Zia J. Penefsky and Dr. Harvey S. Penefsky. Dr. Zia J. Penefsky is an Assistant Professor in the Department of Physiology at the Mount Sinai School of Medicine. Her research interests center around the mechanism of contraction of cardiac muscle. Dr. Harvey S. Penefsky is an Associate Member of the Department of Biochemistry, The Public Health Research Institute of the City of New York. His research deals with the mechanism of intracellular energy conversion and conservation. They will speak at the May meeting of the New York Chapter, IEEE Group in Engineering in Medicine and Biology.

Time: Wednesday, May 9, 7:30 p.m. Place: South Laboratory, Rockefeller University, York Ave. and 66 St., N.Y.C. Pre-Meeting Dinner: Tower Building Cafeteria, Rockefeller University, 6:00 p.m.

At the June 13th meeting of G-EMB, Dr. David G. Fleming, Adjunct Professor of Bio-Medical Engineering at Case Western Reserve University will discuss "Eye Movement Saccadic Suppression, or Why You Don't See Blur When the Eyes Move."

## How To Be An Engineer Without Really Crying

This title is the theme of a panel discussion sponsored jointly by the City University of New York and the Metropolitan New York Group on Electron Devices. It will be held on Thursday, May 10, at the C.U.N.Y. Graduate Center (Room 207) at 8:00 p.m.

The panel members will be: Irwin Freest, P.E., a professional consulting engineer who is actively working to change the direction of IEEE; Dr. Robert McMillan, P.E. professor at Newark College of Engineering who has served on many IEEE committees and was editor of the Northern New Jersey Newsletter; Gene Reight, Career Center, Inc., who knows what industry is looking for from the engineer and vice versa. The panelists will each devote ten minutes giving their views on the above topics. Questions from the audience will follow.

The C.U.N.Y. Graduate Center is accessible by all public transportation. For those traveling by automobile, parking facilities are available at the Hippodrome Garage between Fifth and Sixth Avenues. There are entrances on both 43rd and 44th Streets.

Time: Thursday, May 10, 8:00 P.M. Place: C.U.N.Y. Graduate Center, Room 207, New York, N.Y.

Pre-Meeting Dinner: Graduate Center Buffeteria (same building) at 6:00 p.m.

### **Control Center Tour**

The New York, New Jersey and Long Island Joint Chapter on Instrumentation and Measurement will sponsor a tour of the Gas Distribution Control Center, Public Service Electric & Gas Company at 84 Sip Avenue, Jersey City, New Jersey to be held on Tuesday, May 15, 1973 at 6:30 p.m.

The PSE&G Gas Distribution Control Center is the focal control facility for PSE&G's gas transmission network and contains the latest in control and monitoring instrumentation and techniques.

There will be no charge for this tour, but the group size will be limited to 20 persons. The tour is open to IEEE members and non-members alike. To reserve a place, or for further information, please contact Mr. Thomas Guidera by telephone during business hours at 201-649-2923.

## **Energy Use Control**

The New York, North Jersey, and Long Island Joint Chapter on Instrumentation and Measurements will hold its Annual General Meeting on the evening of May 8, 1973, 7:15 PM at Con Edison, 4 Irving Place, New York, New York. A dutch treat dinner will be held at Luchow's Restaurant, 110 E14 Street, New York, New York beginning with cocktails at 5:30 PM.

The highlight of the evening will be a presentation by two speakers on the pros and cons of energy use control - a proposed system of non essential load shedding on the customer's premises controlled by the utility and using methods already developed for remote meter reading.

Reservations for dinner should be made in advance by calling: Mr. J. J. Dietz, 736-1000, Ext. 442.

There will be no admission charge for the meeting.

# ELECTION OF SECTION OFFICERS

Election of Section officers for the 1973-74 year will be held by mail. Information on the nominees is presented in this issue of the *Newsletter* to aid your selection. Select the candidate of your choice on the ballot or a facsimile and mail it to:

Robert G. Sokalski Aircraft Radio Corporation Boonton, New Jersey 07005

Please print your name and the word "ballot" on the back of the envelope. Your name will be validated when your ballot is received. After the validation your letter will remain unopened until the ballots are counted. This will be a secret ballot election. North Jersey Section Members (Fellows, Senior Members and Members) only are eligible to vote. Ballots must be received prior to 5:00 p.m., May 23.

## N.J. Section Ballot

Chairman:

ELECTION OF NORTH JERSEY SECtion Officers 1973-1974. Vote for one person for each office.

Dr. Harlan J. Perlis	
Other	
Vice Chairman: John H. Gerth Other	
Treasurer:	
Dr. Max J. Schindler	
Other	
Secretary: [vote for one] Frank B. Gialanella	
Kenneth Grace, Jr. Other	
Member-At-Large 1: [vote for James C. Gass Paul E. Orehek Other	one]
Member-AT-Large 2:[vote for a	one]

Dr. Robert McMillan

Other

### HARLAN J. PERLIS - Chairman

Harlan J. Perlis was born in Union City, N.J. on June 12, 1924. He received the B.E.E. degree with "High Honors" from Clarkson College of Technology, the M.S. degree from Stevens Institute of Technology, and the Eng.Sc.D. degree from New York University.

Dr. Perlis was employed in various engineering capacities by Coles Signal Engineering Laboratories, A.B. Du Mont Laboratories, and Emerson Radio and Phonograph Corp. During World War II he served with the U.S. Army in the China-Burma-India Theater. He has been a regular faculty member of New York University and Rutgers University performing undergraduate and graduate teaching and research. At present, he holds the position of Professor of Electrical Engineering at Newark College of Engineering. Dr. Perlis has published over 30 papers in the technical literature and is a contributing author of one book. He is a member of Tau Beta Pi, Eta Kappa Nu, and Sigma Xi honor societies. He is a senior member of the Institute of Electrical and Electronic Engineers and the Instrument Society of America, and he is a member of the Society for Industrial and Applied Mathematics, American Society for Engineering Education, Armed Forces Communications and Electronics Association, American Geophysical Union, Water Pollution Control Federation, National Society of Professional Engineers, and the New York Academy of Sciences. He is a registered professional engineer in the states of New Jersey and New York and is listed in American Men of Science.

### JOHN H. GERTH - Vice Chairman

John H. Gerth is Head of the Component Reliability Department at Bell Telephone Laboratories, Whippany, New Jersey. He is currently responsible for reliability studies of electronic and electromechanical parts, equipment and circuits.

Mr. Gerth received the B.S. and M.S. degrees in electrical engineering from the Pennsylvania State University. He has also attended Harvard University, Massachusetts Institute of Technology, North Carolina State University and Carnegie - Mellon University. He is a member of Phi Kappa Phi, Tau Beta Pi, Sigma Tau, Eta Kappa Nu, Pi Mu Epsilon and Scabbard

and Blade. During World War II, he served for three years as a radar officer with the U.S. Army Signal Corps.

Mr. Gerth, a Senior Member of the IEEE has served on Reliability Definitions and Standards Committees of the IRE and IEEE from 1960 to the present. He was first program chairman and subsequently vice chairman and chairman of the North Jersey Reliability Chapter and group coordinator, secretary and treasurer of the North Jersey Section of the IEEE.

### MAX J. SCHINDLER - Treasurer

Max J. Schindler received his M.E.E. and Ph.D. from Technische Hochschule, Vienna, Austria. He is with RCA Microwave, Harrison (since 1958) where he made major contributions in the design of Traveling-Wave Tubes and Computer Applications. He received the 1972 Engineering Award from his co-workers for a widely used self-optimizing network-design program, and his IEEE efforts. A Senior Member since 1959, he served on the North Jersey Program Committee, as publicity chairman, and presently as a Member-At-Large.

### FRANK GIALANELLA - Secretary

Frank B. Gialanella is a Technical Sales Representative for Automatic Switch Company working with Consulting Engineers and manufacturers. He's been with the Company for twelve years.

A member of IEEE for over five years, Frank is in his third year as Chairman of the Education Committee, North Jersey Section, and is Secretary of the Power Group Society. He is also active in a number of programs and committees with the Essex Electric League of N.J.

### **KENGRACE** - Secretary

Ken Grace joined the technical staff of Bell Telephone Laboratories, Whippany, in 1965, after receiving the B.S. and M.S. degrees in electrical engineering from MIT. He is presently supervisor of the Operational Reliability Evaluation Group. He has presented two papers on probabilistic reliability models at the IEEE-sponsored Annual Symposium on Reliability.

Ken was a member of the Section Education Committee and is a past chairman of the Reliability Chapter.

### JAMES C. GASS -Member-At-Large 1

James C. Gass of Allis Chalmers has been very active in IEEE serving as chairman of the Education Committee and Member-At-Large and Acting Secretary of the North Jersey Executive Committee. He has received the North Jersey Section Award for Outstanding Service.

## PAUL E. OREHEK - Member-At-Large 1

Paul E. Orehek is Assistant Engineer with Public Service Electric and Gas Company in Newark. He received the B.S.E.E. degree from Newark College of Engineering in 1966 and the M.S. degree from Newark College of Engineering in 1971. He has been active in IEEE affairs serving as chairman of the North Jersey Power Engineering Society for the 1972-1973 year.

### MAITLAND Mc LARIN -Member-At-Large 2

Maitland McLarin of Picatiny Arsenal, as a government engineer for the U.S. Army, Navy, and Air Force, has attained the interspersed industry experience of Univac, GE, Lockheed Convair, Ryan and Sperry. His specific achievements are a part of many systems including ABM warhead development, ABM computer software, Apollo system data and checkout, flight testing of aircraft weapons systems and development of inertial navigation and bombing systems. He has actively participated in IEEE in many locations - N.J., Ala., Calif., Texas, L.I. and is currently Chairman of the Membership Committee and Chairman of the Computer Society in North Jersey. He is a member of NSPE and AIAA.

## DR. ROBERT E. McMILLAN - Member-At-Large 2

Dr. Robert E. McMillan is currently an Associate Professor of Electrical Engineering at Newark College of Engineering where he has taught for eight years. Prior to this he worked for Electro-Tec Corp., Curtiss Wright Corp., General Electric Company, and G. M. Giannini Co. following six years of service in the Naval Reserve.

He received his B.S. in ChE in 1942 at L.S.U., his M.S. in physics at Cal. Tech. in 1950, and his ScD from N.C.E. in 1970. He served as editor of the North Jersey Newsletter in 1972.

## SHF Airborne Receiving Antenna

The May meeting of the Antennas and Propagation Group (LI N.Y. Sections) will feature a talk on an "SHF Airborne Receiving Antenna". The speaker will be Mr. James Maune, a Supervising Engineer in the Wheeler Laboratory Group at Hazeltine Research Laboratories.

The SHF antenna uses a novel hybridscan antenna technique. The antenna is an array of 576 radiating elements. Its capability of electronic scanning from broadside to end-fire provides hemispheric coverage from a flush mounted configuration.

For further information contact B. D. DeMarinis, 201-284-3794.

*Time:* Thursday May 24, 8:00 p.m. *Place:* Polytechnic Institute of Brooklyn, Farmingdale, L.I., N.Y.

Pre-Meeting Dinner: 6:00 p.m., Blue Dolphin Restaurant, Junction of Routes 110 and 24 in Farmingdale.

# Product Shock Theme For 1973 PLP

The 4th annual, non-profit Product Liability Prevention Conference (PLP - 73) has been announced for next Aug. 22 to 24. It will feature wide-ranging discussions of consumer product safety and product-liability prevention under the theme of "Prescription Against Future Product Shock".

The conference, which is directed toward manufacturers, importers, wholesalers and retailers, private labelers, servicing specialists, engineers, attorneys and insurers, will be held on the Newark College of Engineering campus, Newark, N.J.

For further information, contact Martin Z. Post, 212-225-0880.

## Annual Student Prize Paper Contest Held

Five students presented their papers at the nineteenth annual Metropolitan Student Council Prize Paper Contest on Saturday, April 28, at Westchester Community College, Valhalla, New York. The contest was a feature event of the Students' Activities Day held by the college, other events being film showings, campus tour, game room activities and a full-course dinner followed by a prospec-

tive Broadway musical entitled "InCon-GruitEE's."

The submitted papers were judged first on the written presentation and the winners compete in the oral presentation at the contest. The judges for the written presentation were; John F. McNulty, P.E., Division Manager, District Operations, Westchester Division of Consolidated Edison Company of New York, Inc.; Joseph F. Connolly, Engineer, Purchased Product Engineering; William J. Carroll, P.E., Planning Engineer, New York Telephone Company; Narain B. Sainani, Director of NYC-VEST (Volunteers, Engineers, Scientists and Technicians), an affiliate of New York State Employment Service. For the oral presentation the judges were: William M. Krummel, P.E., Ph.D., Biomedical Engineering Consultant, and Henry Matcha, President, Matcha Machinery Company,

Musical score for the play was written by none other than our paper contest secretary, *Mr. Robert W. Hudack*. The play is billed as corn, comedy and musical tragedy based on Shakespeare's *King Lear*. It takes place in the 1960's immediately prior to the Kent State tragedy.

## **Training Forecasters**

Dr. Sanford Bordman, Area Coordinator for the IEEE Project in Technology Forecasting and Assessment, is available to train at least one member from each Chapter in the art of technical forecasting. This member, in turn, to train others and report to the Technical Activities Board of the IEEE. Please call Dr. Bordman at 201-645-5273 for further information.

## Students' Feedback

The IEEE student branch at Newark College of Engineering sponsors, once a month, a "Feedback Meeting" in which representatives of all EE classes meet with the department chairman and register complaints or make suggestions. The meetings have generally proven helpful to students as well as faculty.

Among its other activities, the student branch arranged to have all pertinent classes suspended at NCE to allow students to attend the IEEE convention. They also arranged a field trip by NCE students to Hewlett-Packard at Paramus, New Jersey.

## **Urban Modeling**

Stevens Institute of Technology, the Technical and Scientific Activities Committee of IEEE - New York Section, and the North Jersey Section of IEEE are co-sponsors of an all-day symposium on Urban Modeling.

The panel will consider a number of urban problems to which modeling techniques, familiar to electrical engineers, are applicable. Attendees will meet with the speakers during lunch and coffee breaks.

"Urban Modeling: Problems and Possibilities"

Mischa Schwartz

Polytechnic Institute of Brooklyn

"An Overview of the Transportation Systems Modeling Process" "George Kovatch

U.S. Department of Transportation

"Urban Transportation Systems"

Preston R. Clement

Stevens Institute of Technology

"Queuing Models for Vehicular Traffic"
Leonard Shaw

Polytechnic Institute of Brooklyn

"Models for the Off-Shore Nuclear Power Plant"

James Rone y

Public Service Electric and Gas Company
"An Analysis of a County Criminal
Court System"

T. Owen Carroll Stony Brook University

The advance registration fee of \$20.00 includes lunch and may be made until May 25. Registration after May 25 will not include lunch. Please make check payable to Dr. Emil C. Neu and mail with form below. For additional information, call 201-792-2700.

Time: Wednesday, June 6, 9:30 a.m. - 5:00 p.m.

*Place:* Stevens Institute of Technology, The Stevens Center, Castle Point Station, Hoboken, New Jersey 07030.

### **URBAN MODELING**

Send to: Dr. Emil C. Neu, Stevens Institute of Technology, Castle Point Station, Hoboken, New Jersey 07030

Name:	
Firm: _	
Business	Address
Telephon	ne:
	is check for \$

N. Y. Section, IEEE



## **EDUCATIONAL PROGRAM - FALL 1973**



Power and Industrial Div.

## REVIEW STUDY GROUPS — FOR PROFESSIONAL ENGINEER EXAMINATIONS

This program is designed to prepare candidates for Professional Engineering License examinations in New York and New Jersey. The material is consistent with the national type of exam used for the New York license examinations. Candidates for Part I and Part II should enroll in Study Group No. 1, No. 2 and No. 3. The New York State Board permits graduates of approved schools to take Parts I and II and qualify for "Engineering in Training." New York exams will be held in November, 1973 and April, 1974. Please note that the fall course will be completed prior to the November exam.

**ENDORSED BY NYSSPE** 

Due to the early PE exam dates in Fall, 1973, (November 1 & 2) the Committee will split Review Study Groups 1, 3 & 5 in two parts with a summer break in between. The schedule is as follows:

### BASIC ENGINEERING SCIENCES I (IEEE—ASME)

STUDY GROUP NO. 1

Review for Part 1 & Part II, N.Y. Exam. Review will cover practical applications of Statics, Mechanics & Mathematics. MONDAYS, Starting May 14, 1973 for 5 or 6 sessions then resuming on September 10, 1973, 6:30–9:00 P.M., 12 sessions total—Auditorium, 19th Floor, Con Edison Co., 4 Irving Place

Instructors: O. Ondra, P.E., Professor of Civil Engineering, Manhattan College

H. Abelson, Ph.D., Professor of Mechanical Engineering, Manhattan College

### BASIC ENGINEERING SCIENCES II (ASME)

STUDY GROUP NO. 2

Review for Part I & Part II, N.Y. Exam. Review will cover practical applications of Dynamics, Fluid Mechanics, Thermodynamics and Electrical Principles.

TUESDAYS, Starting August 7, 1973, 6:30–9:00 P.M., 12 sessions—Room 1701, Con Edison Co., 4 Irving Place *Instructor:* P. Szabados, P.E., Con Edison

#### ENGINEERING ECONOMICS & PRACTICE (IEEE-ASME)

STUDY GROUP NO. 3

Review for Engineering Economics for all three sections of the exam. Review will cover economic comparisons, annual cost, present worth and rate of return. Fixed and operating costs, accounting and cost analysis, depreciation, taxes and valuations will also be reviewed.

THURSDAYS, Starting May 17, 1973 for 5 or 6 sessions then resuming on September 6, 1973, 6:30–9:00 P.M., 12 sessions total—Room 1425, Con Edison Co., 4 Irving Place

Instructor: R. E. Mendoza, P.E., Public Service Electric & Gas of New Jersey

### MECHANICAL ENGINEERING (ASME)

STUDY GROUP NO. 4

Review for Mechanical Engineering Section of Part III, N.Y. Exam. Application of mechanical engineering principles to combustion, gas dynamics, compression shock, nozzle design, steam power plant cycles, psychrometrics, air conditioning heat transfer, nuclear reactors, Mach cone, Kinetics, gyroscope motion, vibratory motion, balancing of machines, compound shafts, design of gears, hydraulics, pumps and fans, stress and deformation of machine elements, etc.

WEDNESDAYS, Starting August 1, 1973, 6:30—9:00 P.M., 13 sessions—Room 1701, Con Edison Co., 4 Irving Place *Instructor:* M. Kurtz, P.E., Consulting Engineer

### ELECTRICAL ENGINEERING AND APPLICATIONS (IEEE)

STUDY GROUP NO. 5

Review for Electrical Engineering Section of Part III, N.Y. Exam. Electrical Engineering Principles and Applications of: transformers a-c and d-c machines, transmission lines, filters, wave guides, networks, impedance matching, bridges, coupled circuits, resonance, harmonics, transients, three-phase power, amplifiers, electronic circuits, Root locus and Routh Criteria.

WEDNESDAYS, Starting May 16, 1973 for 5 or 6 sessions then resuming on September 5, 1973, 6:30—9:00 P.M. 12 sessions total—Room 1425, Con Edison Co., 4 Irving Place

Instructors: L. E. Burnett, P.E., P.A.S.N.Y.

S. Sonsky, P.E., Queensborough Community College

SEE REGISTRATION FORMS ON REVERSE SIDE.



## EDUCATIONAL PROGRAM – FALL 1973 SPECIAL STUDY GROUPS



The following study groups will be presented in the Fall starting mid-September:

ADVANCED ENGINEERING COMPUTER PROGRAMMING CONFERENCE LEADERSHIP PROBABILITY & STATISTICS SHORT CIRCUIT ANALYSIS & SYMMETRICAL COMPONENTS SOUND CONTROL

COMPLETE INFORMATION ON SPECIAL STUDY GROUPS WILL BE PUBLISHED AT A LATER DATE.

#### REGISTRATION INFORMATION FOR REVIEW STUDY GROUPS

GROUPS#	FEE PER GROUP	PAYABLE TO	MAIL TO
1, 3	\$30 each for Members, IEEE, ASME, NYSSPE; \$40 each for all others	"POWER & IND. GROUP N. Y. SECTION IEEE"	I. M. Berger, Vice Chairman Educational Committee, IEEE N. Y. C. Transit Authority, Rm. 1200 370 Jay St., Brooklyn, N. Y. 11201 Phone: (212) 852-5000, Ext. 4495
5	\$50 each for Members, IEEE, ASME, NYSSPE; \$60 each for all others		
2,4	\$30 each for members, IEEE, ASME, NYSSPE; \$40 each for all others	"ASME METROPOLITAN SECTION"	Thomas Gucciardo, Educational Comm. ASME, Metropolitan Section N. Y. C. Health & Hospital Corp. Bureau of Engineering & Maintenance 66 Leonard St., N. Y., N. Y. 10013 Phone: (212) 566-6940

Fill out one registration form for each group and mail with payment

REGISTRATION FORM		REGISTRATION FORM	
Firm Business Address	Phone No.	Firm Business Address	Position Phone No.
	(Do Not Write In This Space) Admission Card No. Refund Certificate No. Fee Paid \$ (Cash, Check, M.O.) Date By	Study Group Member of:   IEEE   ASME   OTHER   NON-MEMBER   Membership	(Do Not Write In This Space)  Admission Card No.  Refund Certificate No.  Fee Paid \$

Note: See Registration Information for Checks

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