



The IEEE

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NEWSLETTER STAFF

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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 1973-1974

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Treasurer..... Max J. Schindler
Secretary..... Kenneth Grace, Jr.
Member-at-Large..... James C. Gass
Member-at-Large..... Dr. Robert McMillan
Jr. Past Chairman..... Carl C. Torell

ELECTION
of
SECTION
OFFICERS
see
BALLOT
INSIDE
(Pages 4 & 5)

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ALAN H STOLPEN
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APR 13

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APR 13

Clinical Engineer

The Multi-Group Chapter and the County College of Morris Student Chapter will sponsor a panel discussion on the role of the Clinical Engineer and Technician in the hospital environment. The engineer and technician working in a hospital will encounter a much different type of environment than that of the usual electronics company.

Robert Thorson, Head of the Department of Biomedical Electronics at St. Barnabus Hospital and Steve Muccioni, Clinical Engineer at Morristown Memorial Hospital will relate to us much of their practical experiences in this area.

Mr. Thorson has been with St. Barnabus Hospital for the past 10 years. He holds a B.S. in Electrical Engineering and Physiology. He is also teaching a course this semester in Biomedical Measurements at Fairleigh Dickinson University.

Steve Muccioni has been the Clinical Engineer at Morristown Memorial for the past 4 years. Previous to that he worked with Technicon as a customer service engineer.

Nominations for officers will also take

place at this meeting. Refreshments will be served.

For further information call Martin Hollander, 361-5000, ext. 261, or Jim Garofano, 540-0500, ext. 300.

Time: 8:00 P.M., Tuesday, May 14, 1974

Place: Room AS/A-141, County College of Morris, Route 10 and Center Grove Road, Randolph, N.J.

Pre-Meeting Dinner: Darren Scott Inn, North Side of Route 10-Halfway up the hill from K-Mart Shopping Center, Dutch Treat.

Power Society Nominations

The Nominating Committee for the Power Engineering Society Chapter of the North Jersey Section has nominated the following candidates for the 1974-1975 term of office:

<i>Chairman</i>	- K. Oexle
<i>Vice Chairman</i>	- J. Redmon
<i>Co-Program Chairman</i>	- A. Giedlinski
	- J. Langenfeld
<i>Secretary</i>	- R. Sharp
<i>Treasurer</i>	- C. DeMeis
<i>Membership Chairman</i>	- S. Salowe

Election of officers will take place at our May meeting of the Chapter. The candidates nominated have stated their willingness to carry out the duties of office, and are members of the P.E.S. Chapter, North Jersey Section.

If there are any other nominations for any of these offices, please submit the names to Mr. H.C. Youngster, 80 Park Place, Room 10330, Newark, New Jersey 07101 on or before May 17, 1974. (If you wish to call: (201) 622-7000, extension 3711).

Before a nomination is made, please ensure the nominee is willing to carry out the duties of office and is a *member* of the *P.E.S. Chapter, North Jersey Section*.

Underground Distribution

The program for the May meeting of the North Jersey Section of the Power Engineering Society will be presented on 34.5 kv wye underground distribution.

Mr. Richard J. Santoro, Jersey Central Power and Light Company, will be the main speaker. Mr. Santoro has worked for JCP&L since 1969 in the distribution engineering section of the Electrical Engineering Department. He received a B.S.E.E. from Newark College of Engineering in

1970 and an M.S.E.E. in 1973. Mr. Santoro will discuss JCP&L's present thinking on 34.5 kv wye underground distribution, including material limitations and technical problems.

A question and answer period will follow the conclusion of Mr. Santoro's presentation. Refreshments will be served.

Time: 8:00 P.M., Thursday, May 23, 1974

Place: Punchbowl Room, Jersey Central Power and Light Company, Madison Avenue (Route 24) at Punch Bowl Road, Morristown, New Jersey.

Milli meter Waves

The North Jersey MMT/AP Chapter will hold a meeting May 23rd at which "Millimeter Wave Transmission Lines" will be discussed. A representative from ECOM, Fort Monmouth will be the speaker.

Nominations and election of Group Officers will also be held at the meeting, scheduled for 8:00 P.M. at ITT Auditorium, Nutley.

For pre-meeting dinner details, contact: Sever Anghel, RCA, Sommerville, 722-3200, ext. 3429.

Engineers' Picnic

The Engineers' Picnic will be held on Saturday, May 11th, at the State University at Stony Brook, starting at approximately 12 noon.

The price schedule is as follows:

IEEE (or technical society student member) and one guest	\$2 each
Student and one guest	\$4 each
Regular IEEE or technical society member and one guest	\$4 each
Regular non-member and one guest	\$6 each
Children under 12	\$0.50 each

The Picnic should prove to be the ideal affair to celebrate the end of a successful academic year.

The SUNY at Stony Brook Long Island has ideal facilities, suitable for either a beautiful, sunny May day or a change of plans due to rain (indoors).

Members of the Picnic Committee are: Bill Bakonyi, Jim Heiman (MSC Vice-Chairman), Barry Pearlman, SUNY Stony Brook delegate, and Alan Zauzmer, MSC Secretary and PINY Delegate. Further information may be obtained from Bill Bakonyi, P.O. Box 315, Garfield, N.J. 07026. Phone: (201) 478-9578 after 10:30 P.M.

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PART TIME IEEE STAFF JOB — IEEE REGIONAL OUTSTANDING LECTURE PROGRAM

Applicants are invited from recently retired IEEE members for part time employment at New York Headquarters to coordinate the IEEE Regional Lecture Tour Program. The work involves telephone contact with speaker and host Section Officers to arrange tours, recruitment of suitable speakers and attention to regular publicity for the program.

Applicant must be able to communicate well, both verbally and in writing and type own correspondence. Availability for two-days work per week on a regular schedule is expected. Please reply in writing to: IEEE Newsletter, N.J. Section IEEE, Box 455A, Mount Arlington, N.J. 07856, stating how you can be reached and days you are available. Good salary, plus partial fringe benefits, Equal opportunity employer.

Microprogramming Tutorial

On Wednesday, June 12, Newark College of Engineering and the N.J. Section of IEEE will co-sponsor a one-day tutorial on Microprogramming.

Microprogrammed architecture is a form of computer architecture which is used to control the sequence of logic flow throughout an entire computer. In a microprogrammed system, machine instruction repertoire is implemented by means of a collection of micro-instructions, stored in control storage. Each of the micro-instructions consists of micro-orders which are subsequently decoded to activate specific gates, which in turn perform a given function. The microprogramming can be done in a vertical sense or horizontal sense, depending on whether each micro-instruction is to perform one given function, or several given functions in parallel.

While microprogramming is similar to machine language coding, it is still one level below requiring explicit details coding at the gate level. But one advantage of the low level of coding is to offer more flexibility than is available at the assembler level.

Who Should Attend

The tutorial is intended for computer programmers or computer specialists who wish to learn more about this form of computer architecture. A knowledge of some higher level language, such as FORTRAN, COBOL, PL/I, ALGOL, etc., will be presumed and a knowledge of any of these should provide sufficient background for individuals curious to learn what microprogramming is. The tutorial may spark individuals to pursue a more detailed study of the field through the literature which is currently available.

Program Outline

Introduction

Session A—Overview of Microprogramming

Coffee Break

Session B—Microprogramming Languages

Lunch

Session C—Microprogramming Architectures and Emulation

Session D—Microprogrammed Architecture High Level Language

Machine Design

Conclusion & Discussion—State of the Art

Fee is \$40.00 per person. Contact: Dr. Stanley Habib, Director, Computing Activities, Newark College of Engineering, for additional details and registration.

Medical Device Evaluation

The next meeting of the Metropolitan New York Chapter of the IEEE Group on Engineering in Medicine and Biology will be on the Evaluation of Medical Devices given by Dr. Neil Miller, Director of Hospital Services, Emergency Care Research Institute, Philadelphia, Pennsylvania.

Time: 7:30 P.M., Wednesday, May 8, 1974

Place: Rockefeller University, South Laboratory, Room 204, 66th Street and York Avenue, New York City

Pre-Meeting Dinner: 6:00 P.M., Tower Cafeteria, 64th St. and York Ave., New York City

The final meeting for this season will take place on Wednesday, June 12, 1974. Dr. Saul Aronow of the Massachusetts General Hospital will speak on medical devices legislation, standards and their impact.

PE Exam

Correspondence Course

The N.J. Section of IEEE and the North & Mid Jersey Section of ASME will sponsor PE Exam Review Correspondence Courses this summer. Course A will cover Engineering Fundamentals, Course B is Mechanical Engineering and Course C is Electrical Engineering.

For additional details on these courses contact: H. Mauser, 1221 Cambridge Ave., Plainfield, N.J. 07067 or phone (201) 561-0174.

Election of Section Officers

In the past, election of Section Officers took place at a May section meeting at which the Nominating Committee presented a slate of officers (one for each office) who were then elected. Last year, in order to get membership involvement, the members were given a choice on some of the offices. A mail ballot was conducted with the ballot appearing in the May issue of the Newsletter. The number of ballots returned was "extremely small" indicating member apathy concerning their section officers. However, we are again trying a mail ballot and it is hoped the number of returns will be higher. The ballot can be found below with information on the candidates appearing in this issue. Select the candidate, mark your choice on the ballot of facsimile and mail it to:

Carl C. Torell

c/o Federal Pacific Electric Company
150 Ave. L, Newark, N.J. 07101

Please print your name and the word "ballot" on the back of the envelope. Your name will be validated when ballot is received but envelope will remain unopened until time for the election committee to meet and count all ballots. All Members, Senior Members and Fellows of the North Jersey Section are eligible to vote and ballots must be received prior to 5:00 P.M., May 29, 1974.

N.J. Section Ballot

North Jersey Section Ballot for election of officers for 1974-1975.

Chairman:

Max J. Schindler

☐

Vice Chairman:

Robert E. McMillan

☐

Treasurer:

James F. Kampschoer

☐

Secretary:

Frank Gialanella

☐

Member-At-Large (1) vote for one:

Norman A. Blesman

☐

Charles A. Coulomb

☐

Member-At-Large (2) vote for one:

John M. Rausch

☐

Alan H. Stolpen

☐

Candidates For Section Office

MAX J. SCHINDLER - CHAIRMAN

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 was a member of the North Jersey Program Committee and served the North Jersey Section as Publicity Chairman, Member-At-Large and presently is its Treasurer.

DR. ROBERT E. McMILLAN - VICE-CHAIRMAN

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 was editor of the North Jersey Newsletter in 1972 and served the North Jersey Section as Chairman of Intersociety Relations Committee 1973 and 1974 and is presently Member-At-Large.

JAMES F. KAMPSCHOER - TREASURER

J.F. Kampschoer is a Member of the Technical Staff at Bell Laboratories, Whippany, New Jersey. He is currently involved with communications engineering for anti-missile defense systems.

He received the BSEE Degree from University of Minnesota and also attended Harvard University and Fordham. He served as a Radar Officer during WWII and Staff Officer during the Korean War with the U.S. Army Signal Corps.

J.F. Kampschoer, a Senior Member of the IEEE, has served as Member of the Advisory Council of the Communication Society, Secretary and Member-at-Large of the North Jersey Section, and subsequently Chairman of the Communications Technology Group of the IEEE.

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.

JOHN M. RAUSCH
MEMBER-AT-LARGE (2)

John M. Rausch is Head of the Interconnection Design Department at Bell Laboratories, Whippany, New Jersey. In this capacity he is responsible for assisting in the development of new electronic packaging technology, and working with both Bell Laboratories designers and Western Electric manufacturing engineers to introduce this technology to practice. He received a BS in chemical engineering from Newark College of Engineering and a Ph.D. from Princeton University, having served three years in the U.S. Army in the interim during World War II. He is a member of Tau Beta Pi and Sigma Xi.

A Senior Member of IEEE, Mr. Rausch has served as Chairman of the Computer Society Packaging Committee, Session Director of the 1973 Electronic Insulation Conference, and is presently Chairman of the Metropolitan New York PHP Technical Committee on Materials and a member of the Program Committee of the Institute of Printed Circuits.

NORMAN A. BLESCHMAN -
MEMBER-AT-LARGE (1)

Norman A. Bleschman is an Engineer with Public Service Electric and Gas Company in Newark. He is a member of IEEE Substation Committee and serves that Committee as Standards Coordinator, Chairman of Substation Environmental Substation Committee, a member of Distribution Substation Subcommittee and Working Groups on Rigid Bus Design; Compact Substation Design and Substation Safety. He is past Chairman of Power and Industrial Division of N.Y. Section IEEE. He is an IEEE Representative to ANSI Standards Committee C.29.

He received a BSEE degree from Drexel University in 1947 and an MBA from Fairleigh Dickinson University and is a member of Eta Kappa Nu.

CHARLES A. COULOMB
MEMBER-AT-LARGE (1)

Charles Coulomb is Distribution Planning Engineer for Jersey Central Power and Light Company, a position he has held for five years. He is responsible for preparing plans for the orderly development of the distribution system, and using budgetary and implementary controls so that distribution plant investments meet planning criteria for future system requirements.

Mr. Coulomb received a B.A. degree from Buchnell University and a B.S.E.E. degree from Fairleigh-Dickinson University. He has been a member of the IEEE since his student days at Teaneck.

ALAN H. STOLPEN -
MEMBER-AT-LARGE (2)

Alan H. Stolpen is presently a Senior Engineer with the Kearfott Division of the Singer Company in Wayne, New Jersey, working on the design of Power Supplies for Aerospace Computer and Navigation Systems. He was previously with the Burroughs Corporation, engaged in the design of sequencing circuits and power supplies for military and large commercial computers, in-plant test and manufacturing equipment. Prior to this he has held engineering positions with Fairchild Instrumentation, the Singer Co., S-F-D Laboratories, General Instrument, and Tung-Sol.

He received his BSEE and MSEE at Newark College of Engineering subsequent to his military service (Army). Mr. Stolpen is the holder of three patents in the area of switching circuits and motor speed control.

Mr. Stolpen's IEEE activities started as a student officer at Newark College of Engineering. He was Student Affairs Editor for the North Jersey Newsletter 1967-1969, Editor 1970, Publications Chairman 1970-1971, Groups Coordinator 1971-1974.

Engineering Management Leaders Needed

At the March 6, 1974 Executive Committee meeting the dormant Joint Chapter on Engineering Management was discussed. Since there are presently 180 EM members above Student grade in the North Jersey Section, we were asked if the North Jersey Section wished to sponsor the Chapter.

Interested members are urged to step forward to assume leadership in this group by May 31, 1974, otherwise it will be discontinued as a local group chapter. Anyone interested can contact Dr. Harlan J. Perlis, Chairman North Jersey Section, NCE, 323 High Street, Newark, N.J. 07102.

The IEEE At County College of Morris

The County College of Morris IEEE Chapter is about to end a very successful year of activities. This year the student chapter became an official school club. The club now receives a budget from the school in addition to the IEEE rebates and other earned monies. This has allowed the club to participate in activities it could not normally afford.

Successful events such as an electronic parts auction, bus trip to Intercon and a Planetarium show have supplemented the usual weekly meetings. During these meetings the students participate in code lessons, repair of electronic equipment and other events. These meetings are helping to create better fellowship among the electronic students.

Special thanks for this successful year should be given to: Stephen Muti, President; Wallace McLeod, Jr., Vice-President; John Melnick, Treasurer; Joseph Pete and Fred Schulze MSC representatives; and Martin Hollander, chapter counsellor. The whole club is also rooting for Bill Donofrio who has entered a paper in the Prize Paper Contest.

Professionalism & Ethics

Many of us have become aware of various practices by members of the engineering profession which, upon exposure, have led to the ruination of political careers. The situations in mind involved bribes and kick-backs between well-known politicians and not so well-known engineering firms. Typically, the defendants during their trials asserted that they were doing only what everyone else was doing for years!

The amazing thing about all of these goings-on is that engineers (of all people!) were involved in the so-called conspiracies. Not all of us, however, are in construction engineering, nor are all of us taking or paying bribes. Suppose you were aware of similar bribe situations, how should you react? Should the plot be uncovered, or is this out of the domain of professionalism?

But, let's not kid ourselves. A lot of us are doing our own thing and are contented within our translucent glass partitions. We would not even be aware of the crimes if we didn't happen to see it on page one of our evening paper, or on the TV news report. As humans, we sometimes get uptight, but for other reasons: our status (or maybe non-status is a better word) when engineering employment is down, and the number of unemployed engineers is up. Again, we might have to grit our teeth when we hear the old sick joke, "Yesterday I couldn't spell engineer, and now I am one!" Insults, abuse, unemployment, and uncertainties about the future have surely made us vulnerable to "Future Shock."

But, wait a minute! Before you become further depressed, ask yourself one question, "What have I done to make myself a better citizen/engineer?"

Have you taken any courses beyond your degree? Have you participated in local government? Have you even attended any IEEE meetings this year?

The time has come for the engineer (or IEEE member) to make himself known—to himself and to his fellow man. Get involved! Even if it means exposing corruption. Meet other persons of other disciplines and discuss *reality* with a view towards the impact of technology, since society has already become dependent on technology.

Concluding, it may be suggested that professionalism has two components: 1) technical competence, 2) ethical wisdom.

Ethical wisdom would necessarily be defined in a code of ethics. Have any ideas on this? If so, write down some notes and send them to: Norman G. Hettinger, (Chairman, Socio-Economic Activities Committee), 8 Osborne Terrace, Pompton Plains, N.J. 07444.

Power Electronics Conference

The fifth annual Power Electronics Specialists Conference - to be held June 10-12, 1974 at Bell Laboratories, Murray Hill, New Jersey - will present seven technical sessions, each challenging the frontiers of power electronics. This year's program is unique in that seven IEEE societies and groups have cooperated to produce a meeting which covers many of the interrelated fields of power electronics.

The purpose of this meeting is to provide a forum for power electronics specialists to exchange ideas relating to new designs, analysis and development of circuits and devices. Although the meeting is primarily for specialists in the area of power electronics, there will also be several general and survey papers for those who wish to keep up to date in this critically important field. The following indicates the topics to be covered

- Power Circuits, Systems and Packaging

- High Voltage Applications

- Power Devices

- Power Devices and Circuits

- Circuit Analysis Techniques

- High Power Circuit Applications

A workshop entitled "Industrial Electronics Reliability - Inherent or Unobtainable?" will be featured on Monday evening at the conference hotel. The workshop format will encourage dialogue between attendees and the six invited panel members who represent a broad spectrum of industrial power electronics design areas. The principal objectives of this workshop are the identification of circuit failure mechanisms, developing a better understanding of the industrial power electronics environment, and the identification of a class of "industrial quality" semiconductor components.

A cocktail hour and banquet will be featured Tuesday evening at the Governor Morris Inn. For more information about the conference, contact Dr. Frank Judd, Bell Laboratories, Whippany, New Jersey 07981; (201) 386-6425.

Welcome To New Members

Ralph N. Amato
Christ W. Anagnost
Carl Appel
Peter M. Balma
Stephanie Banks
Edward J. Bizub
R.A. Carpenter
Ramendra N. Chatterjee
Stephen L. Coffman
Ralph J. Costantini
Howard Falk
F.H. Gooding
Narmari S. Guarjala
Paul G. Hohner
Fumitao Itakura
Jack M. Kresh
Proceso E. Maglaque, Jr.
Henry W. Miller
Takashi Ochiai
A. Oliner
Fredrick W. Osborn
Robert G. Palmer
P.S. Parikh
George F. Rubacky
Anthony F. Sanducci
Edward J. Sauka
Mark J. Stromberg
Edwin Sweetman
Guy J. Tirondola
Thomas G. Webb
Alberto Wong



Power and Industrial Div.

EDUCATIONAL PROGRAM — FALL 1974



ASME

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, 1974 and April, 1975. Please note that the fall course will be completed prior to the November exam.

Due to the early PE exam dates in Fall, 1974, (November 7 & 8) 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 I & Part II, N.Y. Exam. Review will cover practical applications of Statics, Mechanics of Materials. MONDAYS, Starting May 13, 1974 for 5 or 6 sessions then resuming on September 9, 1974, 6:30—9:00 P.M., 12 sessions total—Room 1425, Con Edison Co., 4 Irving Place

Instructor: 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 July 30, 1974, 6:30—9:00 P.M., 12 sessions—Room 1425, 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 16, 1974 for 5 or 6 sessions then resuming on September 12, 1974, 6:30—9:00 P.M., 12 sessions total—Room 1405, 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 July 31, 1974, 6:30—9:00 P.M., 13 sessions—Room 1425, 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 22, 1974 for 5 or 6 sessions then resuming on September 11, 1974, 6:30—9:00 P.M. 12 sessions total—Room 1405, 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.

PLEASE POST ON BULLETIN BOARD — ALL GROUPS ARE OPEN TO THE PUBLIC

N. Y. Section, IEEE



Power and Industrial Div.

EDUCATIONAL PROGRAM — FALL 1974 SPECIAL STUDY GROUPS

Metropolitan Section



ASME

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

ADVANCED ENGINEERING COMPUTER PROGRAMMING
ENGINEERING PROJECT MANAGEMENT
NUCLEAR PLANT DESIGN—PART 1
RELAY COORDINATION
FUNDAMENTALS OF ELECTRICAL DESIGN—PART 2
ELECTRICAL SYSTEMS IN FACILITIES—OTHER THAN LIGHT AND POWER

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
1,3,5	\$50 each for Members, IEEE, ASME, NYSSPE; \$60 each for all others	"POWER & IND. GROUP N.Y. SECTION IEEE"	<i>I.M. Berger</i> , Vice Chairman Review Studies Educational Committee, IEEE N.Y.C. Transit Authority, Rm. 1200 370 Jay St., Brooklyn, N.Y. 11201 Phone: (212) 852-5000, Ext. 4495
2	\$40 each for Members, IEEE, ASME, NYSSPE; \$50 each for all others	"ASME METROPOLITAN SECTION"	<i>T.J. Gucciardo</i> , P.E. Vice Chairman Education Comm., ASME, N.Y.C. Health & Hospital Corp. Bureau of Engineering & Maintenance 66 Leonard St., N.Y., N.Y. 10013
4	\$50 each for Members, IEEE, ASME, NYSSPE; \$60 each for all others		

For further information contact: R. Samuelson, F. Riley or R. Nathan—Phone (212) 566-6940.

Fill out one registration form for each group and mail with payment
Registrations will be accepted at first and second sessions to the limit of room capacity.

REGISTRATION FORM

Name (printed)
Firm Position
Business Address
Phone No.
Home Address

Study Group
Member of:
☐ IEEE
☐ ASME
☐ OTHER
☐ NON-MEMBER
Membership
No.

(Do Not Write In This Space)

Admission Card No.
Refund Certificate No.
Fee Paid \$..... (Cash, Check, M.O.)
Date By

REGISTRATION FORM

Name (printed)
Firm Position
Business Address
Phone No.
Home Address

Study Group
Member of:
☐ IEEE
☐ ASME
☐ OTHER
☐ NON-MEMBER
Membership
No.

(Do Not Write In This Space)

Admission Card No.
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Date By

Note: See Registration Information for Checks

Note: See Registration Information for Checks