



The IEEE

Newsletter

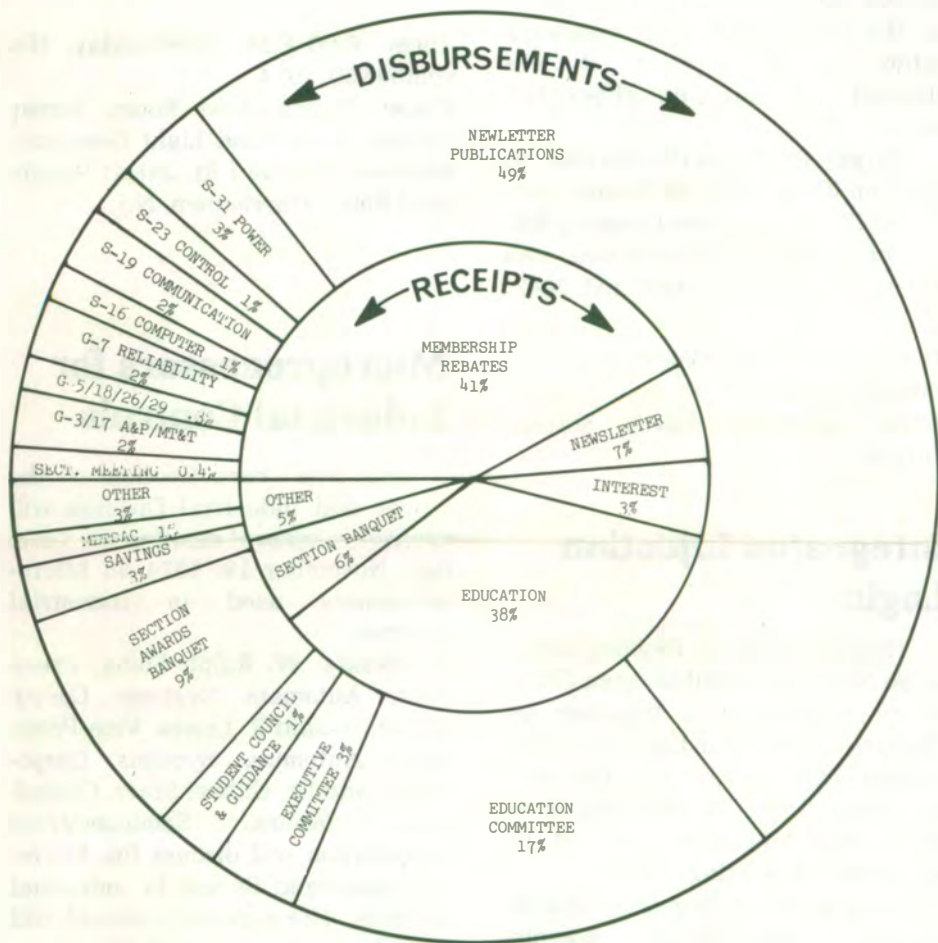
Summary Report of the Treasurer

The Treasurer has custody over the funds of the IEEE North Jersey Section. All funds are received and disbursed in the name of the Section as directed by the Executive Committee.

All disbursements are approved by the Executive Committee except routine bills such as IEEE Newsletter expenditures which are approved by the Newsletter Business Manager and Standing Committee as well as Chapter Expenditures which are approved by the appropriate chairman.

The Chart below shows the sources of the FY1974, \$15.9K, Section operating funds and how these funds were used by the Section. The numbers are typical of Treasurer reports over the past several years with some minor variations.

1973-1974 - CONSOLIDATED RECEIPTS AND DISBURSEMENTS



The inner circle of the chart shows sources of the Section funds. Fifty-nine percent of these funds were derived from the Section business, i.e. fees from attendees to education courses, Newsletter advertizing, awards banquet, and interest on bank savings. Forty-one percent of these funds were received from the Headquarters based upon numbers of "paid-up" membership in the Section, and successful yearly technical meetings organized and conducted by the Section and Chapters. The precise formula that established the rebate distribution to all Sections usually varies from year to year and are published by Headquarters. The North Jersey Section rebate from Headquarters averages a small amount over \$1 for every "paid-up" member in the Section.

The outer ring of the chart shows the major categories of disbursements that account for the \$15.9K for FY1974. The Newsletter, Education Committee, and Section awards banquet account for 75 percent of all disbursements. Support to the Section and Chapter technical meetings amounted to 12 percent. Committee activities on student counseling, student guidance, METSAC and other minor activities account for 10 percent of the disbursements. Finally, 3 percent of the receipts were transferred to bank saving. (This represents the second consecutive year in which a small surplus has been accomplished reversing a longer running trend of deficit spending.)

If anyone would like detailed information on how the Section funds are spent, please call the Treasurer or be our guest at Executive Committee meetings scheduled on the first Wednesday each month. Copies of the FY1974 annual audit and FY1975 budget are also available.

(The guidelines for technical meeting expense have been in effect for years: travel expense within the metropolitan area was not allowed. Reasonable dinner expense for the guest speaker (or speakers), the host, and one other IEEE official was allowed. Reasonable dinner expense for the annual Tri-Section administrative meeting and the annual "workshop" meeting was also allowed.)

Students! Your Future Needs You Now

By Les Kovach,
Student Activities Editor

In no small way your future welfare as an electrical/electronic engineer or technologist will be affected by decisions in the social economic field being made and fought for now by IEEE. As the youngest members of our society your futures will be affected most. Yet, because you are relatively new members, some of you might not be aware of the social economic goals and activities of IEEE and their importance to you and your families in the years ahead. If you care how you will be treated as a professional as compared with other professionals in society, if you care about losing your pension as you transfer from one employer to another, if you care about governmental decisions in planning and funding technical or any other programs, if you care about your profession's role in local governmental decisions and action, then you are interested in IEEE's social economic activities.

How can a student member help? First be becoming informed on the current issues under study by the local IEEE section and by making sure to cast your vote when the time for a decision comes. Voting on issues is the minimum one can do to make a difference. A most worthy additional contribution would come from initiating a social economic activity at your student branch level. Throughout the ages students have been noted for their new ideas, their general exuberance and energy. What better use for all that than a red hot subject concerning your own future! Your efforts would be most immediately useful if tied in with the current program at section level which feeds directly in to the national IEEE headquarters for top level action. Considering the fact that the North Jersey Section is one of the largest sections of IEEE the local student branches can have considerable influence on national level decisions. In addition to the above, a student, like any other member, would of course be more than welcome to help the Social-Economic Committee of our section with the endless tasks it has before it.

How can you find out about what IEEE is doing in the social economic field? May I state here that until the 1970's it did nothing; it was not in its constitution to engage in non-technical matters. Since legislators depend heavily on lobbyists to guide them in their decisions, by default we let other sectors of society determine the future of our profession. So our giant society, the largest technical society in the world with an enviable record of achievement in the technical field,

has just awakened and is trying hard to catch up in the social economic field. The main thrust of IEEE into this field is vested in the USAC, United States Activities Committee, which publishes the IEEE Professional News and mails it to IEEE members. It is the best source of information on what IEEE as a whole is doing in the field. As a starter read "Impressions from the Legislative Forum" by Dr. Leo Young, USAC Chairman, in the May 1974 issue for an overview of how we are doing in Washington as a novice lobby. Not bad for a start, but what a monstrous task it is to fight for our rightful place in society! For a boxscore on current legislation see page 4 of the July 1974 issue. In the same issue, on page 3, Art Rossoff, Liaison Chairman of the Professional Activities Committee (PAC) a part of USAC, has some interesting feedback on causes of success or failure of PAC's formed at local levels which we might consider before embarking on any local program. He says, "There is a tendency on the local level to try to change the world immediately. There has to be a distinction made between the projects that can be done locally and issues that must be dealt with nationally."

Our local activities (that is for North Jersey area) are reported in the IEEE Newsletter. In the Sept. 1974 issue announcement was made of the first non-technical meeting of the section, held on Oct. 17, at which the social economic program of the section will be highlighted. It should be a very lively and exciting meeting. I hope you all read in that same issue the keynote articles by Max Schindler, our Section Chairman, and by Bob McMillan, Vice Chairman, in which they made it clear that this section is all for emphasis on youth—students as well as young engineers and technologists. That issue also contained the names, addresses and phone numbers of the executive committee members. If you would like to know what our section is doing in this exciting new field or would like to offer your suggestions or help, contact Norman Hettinger, Chairman of the Social-Economics Committee. He will be delighted about your show of interest, and even more delighted about your offer to help.

Cardiac Monitoring

The Metro N.Y. Chapter on Engineering in Medicine and Biology will hold its next meeting November 13 at Rockefeller University, South Lab, 64th St. and York Ave., N.Y.C., at 7:30 P.M. It will be a symposium entitled "The Truth About Cardiac Monitoring." Four speakers directly involved in cardiac monitoring will begin the discussion.

Time: 7:30 P.M., Wednesday, November 13, 1974.

Place: Rockefeller Univ., South Lab., 64th St. and York Ave., N.Y.C.

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CCM Trip to Planetarium

The Multi-group and the County College of Morris Student Group are sponsoring a trip to the County College of Morris' Planetarium on Tuesday, November 19, 1974, at 8:30 P.M. The Planetarium has been completed as part of the Phase II building program at the college. It will serve a dual purpose in the North Jersey area. The college will be using it for their space science courses and the community and grade schools will be using it for special programs.

Professor Robert Gebhardt will describe the installation and demonstrate some of the features of the Planetarium. Seating capacity is limited to 80 persons, so please send your reservation form immediately. (Sorry -No children under 8 years of age). Tickets will be sent by return mail. This meeting is open to friends and relatives of IEEE members.

Reservation Form — Planetarium

Name _____

Address _____

Phone _____

Number of Tickets _____

Mail to Martin Hollander — County College of Morris — Dover, N.J., 07801 — Phone, 361-5000 Ext. 261.

Student Activities

The school year is almost half gone so it is time to be reminded about one of the highest level technical activities of the students, by the students, for the students.. the Annual Prize Paper Contest. It is held near the end of each school year so if you start thinking about it now you will have ample time to participate in it this coming year. Your IEEE Branch Counselor can furnish you with general information on these contests. To help whet your appetite, here is a report on last year's contest, the Twentieth Annual Prize Paper Contest, held at Fairleigh Dickinson University, Teaneck, N.J. on April 27, 1974.

The four winning presentations were as follows:

First Prize (\$200.):
Eugene R. Molnar, Trenton State (Senior), "An Integrated Circuit Approach to Pulse Generator Design."

Second Prize (\$100.):
Gerald Pulice, Richmond College (Senior), "Design of a Processor for Video Signal."

Third Prize (\$75.):
Abraham Brecher, Newark College of Engineering (Senior), "Selective Signaling Remote Control for Studio Recording Equipment."

Fourth Prize (\$50.):
John J. Christiano, Newark College of Engineering (Senior), "The Muscle: Its Physiology and Treatment of Paralysis Through Electronics."

Other oral presentations, also dubbed high caliber by the judges, were:

Vincent J. Mastrocola, Trenton State (Senior), "Design of a Solid State Ultrasonic Cleaner."

Bill Donofrio, Jr., County College of Morris (Freshman), "Programmable Operations Control Through Tape Tone Techniques."

Eugene Molnar is a ham radio operator; his immediate goal is to be a design engineer in the digital or communications field. Gerry Pulice is also a ham operator; his hobby is amateur TV and his employment aims are also in the TV area. Abraham Brecher did his paper on what was his senior project and also a piece of equipment with marketing possibilities. He actually sold the equipment. His employment goal is in the field of research and design of electronic equipment. John Christian, whose father has also been in electronics, is specializing in biomedical engineering. His aim is to continue research in electronic aids to muscular paralysis. Jim Mastrocola wants to specialize in the field of digital electronics after graduation. As for Bill Donofrio, he has another year of college before completing his two-year technology course. He has been employed part time in electronic equipment servicing and is especially interested in digital electronics.

The paper contest was sponsored by the Metropolitan Student Council (MSC) under the Chairmanship of William G. Bakonyi of CCNY, as part of Student Activities Day. The Contest Secretary was Joseph C. Antonaccio, an Advisor to MSC.

Following the paper contest there was a campus tour and a movie and finally the annual MSC dinner with presentation of awards. Thanks are extended to Dr. Michael H. Yang, Branch Counselor at FDU, who hosted the event on behalf of FDU, and to Peter Smith, Chairman of the Arrangements Committee. Thanks go also to the judges: Randolph D. Grossberg, Electrical Engineering, Con. Ed. Co. of N.Y., Alex Grunwald, Power Engineer, Long Island Lighting Co.; Prof. Stella Law-

rence, Bronx Community College; Dr. Richard W. Muise, Supervisor, Millimeter Wave Design Dept., Bell Labs.; Eric E. Sumner, Exec. Director, Loop Transmission Div., Bell Labs.; and Dr. David A. Wayne, Assistant Professor of Electrical Sciences, S.U.N.Y.

The Executive Committee has tentatively planned two employment workshops for 1974-1975:

(1) At the N.Y. Inst. of Technology, on Wednesday evenings, November 6 and 13, 1974; or at NYCCC (Brooklyn), on Thursday evenings, November 7 and 14, 1974.

(2) At the County College of Morris, on Tuesday evenings, January 21 and 28, 1975; or at Stevens Inst. of Technology, on Thursday evenings January 23 and 30, 1975.

The workshops, which have proved to be beneficial in previous years, are free to IEEE Student Members. For further information, contact your Branch Chairman or Branch Counselor.

WESTAR Tour

A tour of the Western Union WESTAR Earth Station at Vernon, N.J. has been arranged by the North Jersey Chapter of the Communications Society. WESTAR is said to be the first commercial communication satellite system; it was planned and put into effect this year.

To get to the Earth Station, go West on Rt. 23 to Rt. 94 North. Turn left off Rt. 94 at Vernon Crossing Rd.

For additional information, call Al Favorito (201) 529-4600, ext. 2047.

Time: 8:00 P.M., Wednesday, November 20, 1974.

Place: Glenwood Earth Station, Vernon.

Integrated Injection Logic

The IEEE Electron Devices Group of the N.Y. Metropolitan Area Chapter is sponsoring a program on "Integrated Injection Logic: An MOS Competitive Bipolar LSI Circuit Technique," by F.W. Hewlett, Jr. of Bell Labs, Allentown, Pa., at its November 14 meeting.

Integrated Injection Logic utilizes merged multicollector complementary bipolar transistors to obtain high functional density and power-delay efficiency. The logic unit, its implementation, layout and fabrication will be discussed. A circuit model will also be described which provides good agreement with measured characteristics.

Time: 8:00 P.M., Thursday, November 14, 1974.

Place: International Telephone & Telegraph Labs, Nutley, N.J.

Pre-Meeting Dinner: 6:00 P.M., Jade Fountain Restaurant, River Rd., North of Rt. 3.

Hydrogen-Powered Fuel Cells

The November meeting of the North Jersey Section of the Power Engineering Society will be on a hydrogen—powered electricity—producing fuel cell system. Public Service Electric & Gas Co. is experimenting with just such a system at its Maplewood laboratories. The fuel cell system is being used to light one third of the three-story building at 200 Boyden Avenue. This system is particularly important because it will permit large-scale storage of electricity and is almost entirely pollution-free.

Mr. Michael Glander, a Senior Engineer in the Electric Transmission and Distribution Department at Public Service, will be the feature speaker. Mr. Glander was one of the project engineers on the fuel cells. He will use slides to illustrate his talk.

Refreshment will be served following the meeting.

Time: 8:00 P.M., Wednesday, November 20, 1974.

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

Microprocessors for Industrial Controls

The New York Section of the Power and Industrial Division will sponsor a general meeting on Tuesday, November 19, 1974 on Microprocessors used in Industrial Controls.

Messrs. W. Ralph Siena, President, Automata Systems Corporation, Donald R. Lewis, Vice President, Automata Systems Corporation and Dr. Gilbert Starr, Consultant, National Semiconductor Corporation will discuss the Microprocessor and its use in industrial controls. The material covered will include a survey of available microprocessors, details of control hardware to build a system, software programming, and system design including I/O structure and memory configuration. Come to this meeting and become an expert.

Time: 6:00 to 7:30 P.M., Tuesday, November 19, 1974.

Refreshments: 5:30 to 6:00 P.M.

Place: Consolidated Edison Auditorium, 4 Irving Place, New York, N.Y.

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STAFF

Editor Ray Vaccari
Managing Editor Barb Blair
Business Manager M.M. Perugini
Student Activities Editor Les Kovach
Associate Editor Ken Weiland
Member, Editorial Staff Ed Hendela
Member, Editorial Staff Lauren Urso
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Deadline for receipt of material is the 1st of the month preceding the month of publication. All communications concerning editorial matter should be addressed to: Ray Vaccari, Editor, 236 Summit Road, Mountainside, N.J. 07092. All communications concerning business matters, including advertising, should be addressed to: The Newsletter, c/o Girard Associates, Inc., 399 Howard Boulevard, Mt. Arlington, N.J. 07856.

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REPORT ALL ADDRESS CHANGES TO:
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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
1974-1975**

Chairman Max J. Schindler
Vice Chairman Robert E. McMillan
Treasurer James F. Kampschoer
Secretary Frank Gialanella
Member-at-Large .. Norman A. Bleshan
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Jr. Past Chairman Harlan J. Perlis

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Flavor and
Fragrance Plant Tour

The New York and Long Island Section of the Power and Industrial Division is sponsoring a two-hour Tour of International Flavor and Fragrance Plant in Teterboro, New Jersey, on Thursday, November 21, 1974, at 8:00 P.M.

The Tour of the Plant will highlight the extensive quality control of both input and output products for more than 1500 different flavors that are produced in the Plant. There is ample parking space on the plant grounds. You should arrange for your own transportation.

Ticket and directions may be obtained by contacting: Mr. Jack Mulligan, Con Edison, 4 Irving Place — Room 1250-S, New York, N.Y.

10003; (212) 460-3985. All requests must be received by November 11, 1974, and must be accompanied by a stamped-self-addressed envelope.

Time: 8:00 P.M., Thursday, November 21, 1974.
Place: International Flavor and Fragrance Plant, Teterboro.

We'll Get It
Right Yet!

The correct spelling for the Chairman of the Power Engineering Chapter is Ken Oexle. Not as spelled in the September issue, and not as spelled in the October issue.

The correct spelling for the Special Program Coordinator is Alan H. Stolpen, not as spelled in the October issue.

Calculator
Feedback

In response to the feedback cards in the September Newsletter, in which over 75% of the returns indicated a preference for a full-function calculator, (including memory, trig, log functions, scientific notation and several "write-ins" such as X to the Y power, radian/degrees, PI, X-Y exchange, and rechargability), the North Jersey section IEEE has made special arrangement with the Public Buying Service to make available a quantity of the new Bowmar MX140 calculators. That model has all the above functions, plus two levels of parenthesis, X-M exchange, a full-function memory (M+, M—, MC and MR), and

a positive action keyboard with multi-function keys similar to the HP 45, which enables the large display calculator to be housed in a hand-sized 5¼" X 3¼" X 1½" package for under \$120 to IEEE members.

Since the quantity at this time is limited, please contact Alan Stolpen, new projects administrator, immediately to order your unit. Days: (201) 575-9100 x 232; evenings: (201) 687-9226.

Executive
Terminology

A Program—Any assignment that can't be completed by one telephone call.
Expedite—To confound confusion with commotion.
Channels—The trail left by inter-office memos.

Audio-Tape Cassettes

by Alan H. Stolpen, Special Program Coordinator

A world of insights and information is available to you on IEEE Audio-Tape Cassettes. Conferences, seminars, workshops, and panel discussions featuring experts in their fields have been brought together in a unique series of taped proceedings called "Cassette Colloquia."

Highly edited, comprehensive treatment of various subjects in depth, combining workshop discussions, individual interviews, and cohesive editorial summaries form the nucleus of the series of tapes called "Soundings."

A new series called "Career Development" has been designed to help engineers in that difficult phase of investigating a new potential field and possible job change, as well as to assist students in their choice of a carrer.

The fourth, and last series, "Dial Access Technical Education," is primarily geared for use by large corporations and schools, and consists of up-to-date status reviews of selected technologies, featuring eminent engineers discussing recent developments in their specialties.

As a service to you, our members, the North Jersey Section will purchase selected cassettes from those available, based on your response in this month's Feedback card. Initially, the cassettes will be loaned to the North Jersey and Metropolitan Joint Professional Group and Society Chapters as topics for an expanded meeting schedule. Those cassettes not reserved by the Chapters will be available on a loan basis from the Section.

The available cassettes include:

Cassette Colloquia

- EH00026

"The Future of Air Traffic Control Systems"
- EH00042

"Integrated Circuits for Consumer Applications"
- EH00059

"Principles For Programming Process Computers"
- EH00208

"Programming Languages For the Layman"
- EH00216

"Engineering Management Interface"
- EH00224

"Sales Management Techniques"
- EH00232

"Upcoming Decade Of Automotive Electronics"
- EH00240

"Management Principles for Engineers"
- EH0025-7

"Workshop On Computer Languages For Process Control"
- EH00653

"Engineering Management Strategies"
- EH00752

"The Invention Of The Transistor"
- Soundings
- EH00075

"Systems Engineering: Art, Science, And Politics"
- EH00083

"Electronics In Commerical Aviation"

- EH00182

"The Environment-It's Engineering Challenges"
- EH00190

"The Human Voice...And The Computer"
- EH00273

"Engineering In The Health Industry"
- EH00315

"The Solid State Industry: A Technological And Economic Forecast"
- EH00406

"Cable TV-Now And The Future"
- EH00448

"Automotive Electronics"
- EH00521

"Minicomputers"
- EH00737

"How To Beat Swords Into Plowshares: Technology Utilization"

Career Development

- EH00505

"Your Career In Electrical Engineering"
- EH00662

"A Bio-Medical Engineering Career"

Dial Access Technical Education

- 70-01

"Display Devices", I. Reingold
- 70-02

"Avalanche Diode Microwave Sources," B.C. DeLoach, Jr.
- 70-03

"Bulk Semiconductor Microwave Devices", J.A. Copeland
- 70-04

"Microwave Integrated Circuits", H. Sobol
- 70-05

"Microwave Acoustics," A.J. Bahr
- 70-06

"Microwave Measurements," R.W. Beatty
- 70-07

"Human Factors Design Concepts", D. Meister
- 70-08

"Infrared: The New Dimension for Electronics and Materials Evaluation", R. Vanzetti
- 70-09

"High Gain/Noise Temperature Antennas for Space Space Communications", R.W. Kreutel, Jr.
- 70-10

"Modulation System Theory", A.T. Viterbi
- 70-11

"Threshold Extension Demodulators", L.F. Gray
- 70-12

"Active Filters", S.K. Mitra
- 70-13

"Distributed Networks", M.S. Ghausi
- 70-14

"State of the Art of Thermionics", C.E. Backus
- 70-15

"Solar Cells", S.N. Angrist
- 70-16

"Thermoelectric Generators", S.N. Angrist
- 70-17

"Magnetohydrodynamic Power", S.N. Angrist
- 70-18

"Fuel Cells", S.N. Angrist
- 70-19

"Computer Time-Sharing", W.R. Beam
- 70-20

"Choosing a Minicomputer", W.R. Beam
- 70-21

"Thermionic Systems", S.N. Angrist
- 70-22

"Human Information Processing and Reaction Time", R.W. Pew
- 70-23

"Tropospheric Scatter Communications", C.C. Bailey
- 70-24

"Aerospace Computer Characteristics and Design Trends", D.O. Baechler

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70-02	70-10	70-18
70-03	70-11	70-19
70-04	70-12	70-20
70-05	70-13	70-21
70-06	70-14	70-22
70-07	70-15	70-23
70-08	70-16	70-24

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24	25	26	27	28	29	30

Wideband Analog Cable Systems

The New Technological and Scientific Activities Committee (NTSAC), New York Section, IEEE, and the Communications Society (New Jersey Coast Chapter), are co-sponsoring a seminar at Princeton University on November 19, 1974, entitled "Communications Transmission Seminar — Wideband Analog Cable Systems."

The rapid growth of the Cable Television industry has resulted in the development of CATV transmission networks which resemble, in many important respects, the wideband analog transmission systems employed by telephone common carriers.

This seminar brings together several distinguished experts in component, circuit, and system design, systems operation, and applications, representing both the CATV and telephone industries, in order to provide a balanced presentation of the state of the art in the respective technologies, with emphasis on areas of mutual concern.

Registration is from 9:00-9:30

a.m. in the Engineering Quadrangle Convocation Room, or use the advance registration form provided below. IEEE Member \$35.00, Non-member \$40.00, including luncheon (first 100 applicants only), and Conference Notes. \$5.00 additional for registration after Nov. 12, 1974. Additional copies of the Conference Notes are available at \$15.00. Students please call for student rates. For information call (201) 949-2216 or (201) 949-4807.

Make check payable to "NTSAC" Mail to: Paul Schnitzler, Bell Laboratories, Rm. 3B308, Holmdel, N.J. 07733.

EHV/UHV Measurements

The New York, North Jersey, and Long Island Joint Chapter Instrumentation and Measurements is sponsoring a one-day seminar on EHV/UHV Measurements on November 19, 1974 at Newark College of Engineering. The time is from 9:00 AM to 4:00 PM at the NCE Alumni Center, 323 High St., Newark, N.J. The agenda will consist of the following presentations:

- I. The Role of EHV and UHV in

- Power Systems
- II. Primary EHV/UHV Transducers
- III. Testing of EHV and UHV Equipment
- IV. Transient Measurements at EHV and UHV
- V. UHV Test Station

To register, send check (IEEE members \$10.00, Non Members \$15.00), payable to "JOINT CHAPTER, I&M, IEEE", to Mr. T. Barabutes, Westinghouse Elec. Corp., Relay-Instrument Div., 95 Orange St., Newark, N.J. Please include your Name, Firm, Business Address, Business Phone. For further information: In new Jersey - contact Mr. T. Barabutes (201) 465-2293 — In New York - contact Mr. D.C. Roberts (212) 422-4800, Ext. 8224.

etc. ad naseum, are laying off and/or not hiring. It isn't deadwood pruning because this maligned group is long gone. Eight years ago, I gave over a dozen talks to student groups, women's groups and career counselor groups, extolling the virtues of a career in engineering. Today I would warn against such a career, after living through eight minor layoffs and two major ones. I am one of the lucky ones, not laid off, if you call it being lucky having a job with no pension or stability.

N.J. Section Member

Reliability Group Officers

The new officers of the Reliability Group for the 1974-1975 term are as follows:

- Chairman Michael Y. Swaluk
- V-Chairman Sidmon Markowitz
- Secretary John Poukish
- Members at Large: Stanley Cherkasky, Robert Gauger, Gregor Hetzel, Dick Jacobs
- Publicity Chairman Daniel Bogush
- Program Chairman Joseph Kalata

Letter To The Editor

Your request for engineer speakers for student groups is a about eight years out of phase. We needed more engineers then. Today we have too many. No matter what ECPD or academic surveys claim about the tremendous need for engineers, TI, RCA, Fairchild, Motorola,

FEEDBACK

Cassettes

Please circle the number of each cassette which you wish the section to purchase.

A—Cassette Colloquia

EH00026	EH00216	EH00232
EH00042	EH00224	EH0025-7
EH00059	EH00240	EH00653
EH00208		EH00752

B—Soundings

EH00075	EH00190	EH00448
EH00083	EH00273	EH00521
EH00182	EH00315	EH00737
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