

The IEEE

Newsletter

County College of Morris

Since this two-year community college began operation in the fall of 1968, enrollment increased to 2,084 full-time and 2,211 part-time students in 1970. The full-time faculty has grown to 120.

The Electronic Technology curriculum, a two-year career program, is concerned primarily with the application of established scientific and engineering knowledge and methods. It covers the occupational area between the craftsman and the engineer, at the end of the spectrum closest to the engineer. It differs significantly from a pre-engineering curriculum, which is equivalent to the first two years of an engineering program.

More than half of its graduates are continuing their education on a full or part-time basis at schools offering a B.S. degree in technology.

A tour of the college campus and laboratories, and a dinner will be given preceding the October 20 Multi-Group Chapter meeting. See the article "Artificial Internal Organs" for details.

Artificial Internal Organs Subject of Joint Meeting

The County College of Morris will host a joint meeting of the Multi-Group Chapter and the Student Chapter of the County College. Dr. George Meyers, Manager of the Biomedical Engineering Laboratory of Riverside Research Institute will be the principal speaker at this joint meeting. His speech will emphasize both the physiological and engineering aspects of artificial internal organ design. A color movie will be shown to illustrate new work that is being done in this field.

Since 1960, Dr. Meyers has been very active in the biomedical field. In his capacity as a consultant in biomedical engineering to both Newark Beth Israel Hospital and the Atomic Energy Commission, he is presently working on the development of an isotope powered pacemaker (atomic pacemaker). Dr. Meyers has also authored or co-authored more than forty articles.

A roast beef dinner will be served in the faculty dining room between 7:00 and 8:00 P.M. The meal is complementary except for a fifty cent charge which must accompany your reservation. This will help us predict the attendance.

A tour of the campus will precede the dinner at 6:00 P.M.

Time: Wednesday, October 20; 8:00 P.M.

Place: Auditorium, County College of Morris, Route 10 and Center Grove Road, Randolph Township, N. J.

Pre-Meeting Dinner: Faculty Dining Room, Student Center Building; 7:00 P.M.

For dinner reservations please send a check for \$.50 per person to: Martin Hollander, County College of Morris, Dover, N. J. 07801.

Name _____

Company _____

Address _____

Number of Reservations _____

Make checks payable to County College of Morris.

CHAIRMAN'S COMMENT

"Dr. Haroun Mahrous, if elected Region 1 Director, will be cognizant of North Jersey Section needs."

Robert G. Sokalski, Chairman, NJ Section, IEEE

MEETINGS CALENDAR

Wednesday, October 13

G-EMB Meeting—Blood Flow Behavior, Dr. Yves Nubar, Speaker, Rockefeller University South Lab Building, Room 204, York Avenue and 66th Street, N.Y.C., 8:00 P.M. Pre-Meeting Dinner: Tower Building Cafeteria, Rockefeller University, 6:00 P.M.

Thursday, October 14

Power Group Meeting—Pennsylvania - Jersey - Maryland Interconnection System, Thomas Welch, Speaker. Punchbowl Room, Jersey Central Power and Light Co., Madison Avenue (Route 24) at Punchbowl Road, Morristown, N. J., 7:30 P.M.

Wednesday, October 20

Joint Multi-Group and Student Chapter Meeting—Artificial Internal Organs, Dr. George Meyers, Speaker, Auditorium, County College of Morris, Route 10 and Center Grove Road, Randolph Township, N. J., 8:00 P.M. Pre-Meeting Dinner: Faculty Dining Room, Student Center Building, 7:00 P.M. Tour of the campus at 6:00 P.M.

Wednesday, October 20

Magnetic Group-Princeton Chapter—Bubble Technology, Paul C. Michaelis, Speaker, Murray Hall, Rutgers University, New Brunswick, N. J., 8:00 P.M. Pre-Meeting Dinner: Contact Mrs. Helen Yefko, E. E. Dept., Rutgers University, 247-1766, Ext. 6325.

Wednesday, October 20

New York-Long Island Chapter Meeting—Portable Pensions, Timothy F. O'Sullivan and Thomas R. Sternau, Speakers. Consolidated Edison Co. of New York, Inc., 4 Irving Place (at 14th St.), N.Y.C. 19th Floor Auditorium, 6:30 P.M. Light refreshments at 6:00 P.M.

Thursday, October 21

Fourth Annual Student Night, sponsored by the North Jersey Section-Power Engineering Society Chapter, D. E. Hooper, Moderator. Newark College of Engineering, Newark, N. J., 7:15 P.M. Pre-Meeting Dinner: Meet at the Student Center Cafeteria for free buffet, 6:30 P.M.

Tuesday, October 26

North Jersey Section—Eastman Kodak Processing Tour. Eastman Kodak Plant, Fair Lawn, N. J., 7:15 P.M. Reservation required.

Monday, November 8

IEEE President-Elect R. H. Tanner will meet with New York, New Jersey and Long Island Section members and will review his proposed 1972 program at the U.E.C. Headquarters, 345 E. 47th, New York, 7:30 P.M. (Details next month).

Saturday, November 20

NY, North Jersey and Long Island Joint Chapter on Instrumentation and Measurement—Tour of 747. Pan American's Hangar 17, Kennedy Airport, 10:00 A.M. Reservation required.

Published monthly except June and July by the North Jersey Section of the Institute of Electrical & Electronics Engineers, Inc. Office of Publications: 399 Howard Boulevard, Mount Arlington, N. J. 07856.

Volume 18 October 1971 No. 3

NEWSLETTER STAFF

Editor Raymond Dusault
 Managing Editor M. M. Perugini
 Student Activities Editor Gary Woerner
 Associate Editor Dr. Robert McMillan
 Associate Editor Mrs. Robert McMillan
 Staff Raymond Vaccari
 Staff John Zieger

Newsletter Deadline

Deadline for receipt of material is the 20th of the second month preceding month of publication. All communications concerning the Newsletter including editorial matter, advertising, and mailing, should be addressed to: The NEWSLETTER, c/o Girard Associates, Inc., P. O. Box 111, Mt. Arlington, N. J. 07856, Phone: 398-5524.

Subscription: \$0.75 per year through dues for members; \$1.50 per year for non-members.

Second Class Postage Paid
 at Mount Arlington, N. J.

REPORT ALL ADDRESS CHANGES TO:
Institute of Electrical and Electronics
Engineers, Inc., 345 East 47th Street
New York, N. Y. 10017

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.

NORTH JERSEY SECTION OFFICERS 1971-1972



Robert G. Sokalski



Carl C. Torell

Chairman Robert G. Sokalski
 Vice Chairman Carl C. Torell
 Treasurer Harlan J. Perlis
 Secretary John H. Gerth
 Member-at-Large James Gass
 Member-at-Large J. K. Kampschoer
 Jr. Past Chairman Herbert E. Blaicher, Jr.
 Chairman, Publications Raymond Dusault

Pa.-Jersey-Md. Power Interconnection System

The North Jersey Section of the Power Group will present a program on the Pennsylvania-Jersey-Maryland (PJM) Interconnection System at its October meeting. This will be a joint meeting with members of the Morris Subsection of the ASME.

Mr. Thomas Welch, Administrative Assistant with the PJM Interconnection, will be the guest speaker. Mr. Welch will speak mainly on the new PJM Interconnection Control Center in Valley Forge, Pa. This control center coordinates the generating and transmission facilities of its 12 member companies.

A question and answer session will follow the conclusion of Mr. Welch's presentation, which will include slides.

Additional information can be obtained from Anne M. Giedlinski, Jersey Central Power and Light Co., Morristown, N. J. (201) 539-6111, Ext. 503.

Time: Thursday, October 14; 7:30 P.M.
Place: Punchbowl Room, Jersey Central Power and Light Co., Madison Avenue (Route 24) at Punchbowl Rd., Morristown, N. J.

Progress Report On Portable Pensions

If you have left even one employer and had your pension coverage terminated, you will be receptive to the idea of transferable pensions. Technical mobility is a reality for most engineers, and constitutes an asset for our industrial system. The system should, in turn, supply realistic rewards including pension protection.

The speakers will be Timothy F. O'Sullivan, Director of Personnel of Manhattan College; Thomas R. Sternau of the Smith-Sternau Organization which administers the IEEE Group Insurance Program and Richard Irwin of the Business Benefit Consultants, Inc., who administrate the New Jersey Society of Engineers "Portable" pension plan.

Time: Wednesday, October 20; 6:30 P.M.
Place: Consolidated Edison Company of New York, Inc., 4 Irving Place (at 14th St.), N.Y.C. 19th Floor Auditorium.

Refreshments: Light refreshments at 6:00 P.M.

For Further Information: Contact John Collins, (212) 244-8000, Ext. 785, or Frank Schink, (212) 620-7294;

NJ Section Sponsors Kodak Processing Tour

The North Jersey Section will hold a tour of the Processing center at the Eastman Kodak Company plant at Fair Lawn, New Jersey, Tuesday, October 26, at 7:15 P.M.

This is your opportunity to see how the largest film processor in our area operates with the most modern techniques.

This film processing laboratory in Fair Lawn develops 8mm and 16mm Kodachrome amateur movies, Ektachrome Commercial Original Movie Films, and duplicating films as well as all the amateur Ektachrome products. Commercial films developed at Fair Lawn are used on television and by industrial firms for educational training purposes.

This is a real opportunity for all, including those interested in photography, to get an insight into the commercial processing end.

The tour will last approximately an hour and a half. This will be followed by refreshments and an informal discussion period.

Reservation Required

If interested, please fill in the registration slip below and mail it before October 15, enclosing self-addressed envelope. Tour is limited to 30 persons.

EASTMAN KODAK TOUR
 October 26, 1971

Mr. John J. Imm
c/o General Electric Co.
25 East Willow St.
Millburn, N. J. 07041

I intend to participate in the Eastman Kodak Processing Tour on October 26.

Name _____

Company _____

Address _____

Phone _____

Students' Night

The Fourth Annual Student Night, sponsored by the North Jersey Section - Power Engineering Society Chapter, will be held on October 21. Mr. D. E. Hooper, Distribution Plant Engineer, Public Service Electric & Gas Co., will act as moderator for the panel of recent engineering graduates from the power industry.

Time: Thursday, October 21; 7:15 P.M.
Place: Newark College of Engineering, Newark, N. J.

Pre-Meeting Dinner: Meet at the Student Center Cafeteria for free buffet at 6:30 P.M.; meeting to follow in Ballroom at 7:15 P.M.

Blood Flow Behavior

Since the viscosity of blood varies with flow conditions, blood is classified as a non-Newtonian fluid. Dr. Yves Nubar will discuss a mathematical alternate by postulating a "slip" mechanism in blood.

Dr. Nubar is a Research Associate and Consultant with the Research Division of the School of Engineering and Science, New York University.

Time: Wednesday, October 13; 8:00 P.M.
Place: Rockefeller University South Laboratory Building, Room 204, York Avenue and 66th St., N.Y.C.

Pre-Meeting Dinner: Tower Building Cafeteria, Rockefeller University; 6:00 P.M.

Bubble Technology

The IEEE Magnetic Group-Princeton Chapter will present a talk by Paul C. Michaelis, Bell Telephone Laboratories,

Murray Hill, N. J., concerning a BTL development utilizing "magnetic bubbles" to perform computer functions within a single medium, using simple manufacturing processes. Mr. Michaelis received his B.S.E.E. and M.S. degrees from N.C.E.

Time: Wednesday, October 20; 8:00 P.M.
Place: Murray Hall, Rutgers University, New Brunswick, N. J.

Pre-Meeting Dinner: Contact Mrs. Helen Yefko, E. E. Department, Rutgers University, 247-1766, Ext. 6325.

Tour of 747 Slated

The New York, North Jersey and Long Island Joint Chapter on Instrumentation and Measurements will sponsor a tour of the instrumentation areas on board a Pan Am 747 aircraft and an inspection of the instrumentation facility at Pan Am's Hanger 17 at Kennedy Airport. The tour will be limited to the first sixty applicants. Reservations should be made early to: Mr. D. C. Roberts, American Electric Power Service Corp., 2 Broadway, New York, N. Y. 10004. (212) 422-4800, ext. 8228.

Time: Saturday, Nov. 20; 10:00 A.M.
Place: Pan American's Hanger 17, Kennedy Airport.

The Editor's Corner

In a continuing effort to make the NEWSLETTER responsive to member's needs, we again earnestly request your opinions and suggestions on what you would like to see in future issues. Although the NEWSLETTER is now somewhat limited for space, hopefully future issues can be expanded via an increase in advertising.

We believe that our members want a local IEEE publication that is interesting and informative in addition to meeting the technological needs of our own Section members.

To stimulate reader interest, efforts were made during the past year to publish more than just a calendar of future events and programs. In an attempt to obtain reader feed-back, a LETTER TO THE

EDITOR column was inaugurated last spring with rather disappointing results. A few letters were received initially but other than a subsequent flurry of correspondence occasioned by the May editorial, there has been a veritable dearth of reader letters since.

We did, incidentally, learn something from that May editorial: some members will take pen in hand to express themselves on a subject regarding which they have strong opinions. The couple of dozen favorable letters and the less than half a dozen critical ones were evidence that these members at least read the NEWSLETTER and were sufficiently interested to express their opinions in writing. Frankly, if something that has since been labeled controversial generated this much interest but elicited a response from only a mere handful, we wonder what it would take to really get a response from the other 5,400 members.

In March, our past Chairman, Herb Blaicher, made a plea in the NEWSLETTER for suggestions on how to increase its effectiveness as a communication medium. The results were substantially zero.


However, hope springs eternal. With the sanction of your Chairman and Executive Committee, your Editor has proposed a North Jersey membership-wide contest for the best letter on how to improve the NEWSLETTER. Tell us what you'd like to see in future issues. Or, if you prefer, submit an article on a timely subject. Here's some suggestions: Human Relation in Engineering; Engineering in Law and Economics; Computer Use in the Future Home; Computerized Education; Pollution from an Electronics Plant, etc.

Winning entries will be published in the NEWSLETTER. Since this is read by not only our Section but by many members of over 200 other Sections, your name and entry will be seen throughout IEEE internationally. We'll be looking forward to your letter or article.

Raymond Dusault, Editor

Multi-Group Official

A Joint Nuclear Science/Engineering in Medicine and Biology/Systems, Man and Cybernetics/Geoscience Electronics Group Chapter of the North Jersey Section was formally established on August 4, 1971, according to IEEE Headquarters.

 DATA DELAY DEVICES 253 CROOKS AVENUE CLIFTON, NEW JERSEY 07011 201 772 1106	
DELAY LINES	DUAL-IN LINES LUMPED, DISTRIBUTED MECHANICALLY VARIABLE ELECTRICALLY VARIABLE
FILTERS	H-P, L-P, B-P TUNED CIRCUITS
COILS	TOROIDS, VARITORS DECADE STANDARDS
MODULAR OSCILLATORS	