Dear Dr. McMillan:

Thank you for your thoughtful and wide-ranging letter of December 1 concerning areas where engineering input is necessary. I share your conviction that our country must urgently establish its energy agenda and actively develop alternative energy sources to oil and coal. Burt Ross, my appointee as Administrator of the State Energy Office, is currently pressuring for Federal energy action in several areas, as well as developing energy conscious initiatives on the State level. I am directing a copy of your correspondence and newsletter to Mr. Ross with the hope that he may find input from your Institute and other engineering societies to be useful in the future.

With respect to the higher education budget, I have asked the Department of Higher Education to answer your questions concerning the budget of the New Jersey Institute of Technology.

Regarding food supply and pollution of the oceans, my Commissioner of Environmental Protection through his Divisions of Marine Resources and Water Resources is constantly pressuring the Federal Government and Congress for stricter environmental action on our seacoast. Clearly, for a State such as New Jersey with a multi-billion dollar tourist industry, the health of the ocean is very important to us for a wide variety of reasons.

I appreciate your concern in these areas of public interest and hope that the engineering profession can make a lastling contribution to solving the many problems that face us.

Sincerely,

Brendan T. Byrne
Governor

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Dear Dr. McMillan:

It is only with great foreboreance that I tolerate advertisements in trade publications which display females in attire intended for the beach rather than the laboratory. I simply refrain from purchasing equipment advertised in this manner, on the assumption that, since the manufacturer feels he must rely on man's carnal desires to sell his product, it must have few other merits!

That as IEEE publication should resort to "sexist piggery" is a shocking violation of the professional standing of the organization. If refer of course to the "cartoon" (and I use the term in its original sense, since it was devoid of the humor generally attributed to the genre) in the January issue of the Newsletter). This is particularly distasteful at a time when women are gaining increasing recognition for their mental, rather than physical, attributes, and when IEEE has made significant progress in its representation of all electrical engineers, even those who are women! Surely those members of IEEE who find diversion in gazing upon the female body, need not look to IEEE publications for this type of amusement: it is readily, and more explicitly available in publications of lesser stature.

To continue as a member of the North Jersey Section Executive Committee would signify condonation of this violation of human dignity, therefore, with this letter, I tender my resignation as Chairman of the Socio-Economics Committee and request that you withdraw my name from consideration for the post of Member-at-Large in the upcoming election.

I hope that the sincerity of this action will encourage those responsible for publication of the Newsletter to exercise better judgement in their editorial duties.

Sincerely,

Quayne Golden Gennaro, P. E.

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Dear Mr. Vaccari:

The cartoon featured on page 4 of the January 1976 issue of the Newsletter was in exceedingly poor taste and is unworthy of an electrical engineering professional newsletter. I do not understand how the Newsletter Staff can expect to upgrade the image of the profession in the eyes of the general public and IEEE members (both men and women) when the Staff apparently views their professional journal as an appropriate vehicle in which to print a sexist cartoon. Further, I do not understand how we will ever convince engineering students that they will be treated as professionals in engineering when one of their professional journals sees fit to cast them in the role of the object in the cartoon.

I hope that the Staff of the Newsletter will exercise greater awareness and sensitivity to the feelings of all of their members in their choice of published material.

Sincerely,

L. J. Lanzosotti

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LETTERS . . .

As Chairman of the Nominating Committee I hereby urge the membership to submit additional nominations, as provided in our Bylaws. Such nominations must be in the hands of the Secretary (Norm Blesman, c/o Public Service Electric & Gas, 80 Park Place, Newark, N. J. 07101) by April 7, and must be in the form of a petition, signed by at least 25 voting members of the Section. I must also certify that the nominee(s) agree(s) to serve if elected. I can state on behalf of the above slate of candidates that they overwhelmingly welcome a competitive election. I will be happy to provide whatever assistance I can toward additional nominations.

Max J. Schindler, Ch.
Nominating Committee

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TUTORIAL SEMINAR SERIES

Thursdays, 7:00 to 9:00 PM, Pencobowl Room, Jersey Central Power & Light Co., Madison Ave. at Pencobowl Road, Morristown, N. J. Eminent speakers have been selected for each topic covered. Each week's session will serve as an independent topic.

Section H - Modern Topics
March 25 - "MAGNETIC BUBBLES!" Mr. Paul C. Michaelis
Mr. Paul Michaelis is a co-recipient for the 1975 IEEE Morris Liebmann Award for the concept and development of single-walled magnetic domains (Magnetic Bubbles) and for the recognition of their importance to memory technology. Nonvolatile, low cost memory is promised in the future utilizing these techniques.

April 1 - "NEW DEVELOPMENTS TOWARD LOWER COST SOLAR CELLS"
Dr. Henry Kressel, FELLOW IEEE, RCA Sarnoff Laboratories
Recent interest in large scale photo-voltaic energy conversion has led to the study of potentially low cost methods of forming solar cells in silicon and other materials.

April 8 - "ELECTRO AND ACOUSTO-OPTIC LASER BEAM DEFLECTION & MODULATION"
Dr. Erhard Sittig, FELLOW IEEE
Dr. Sittig is supervisor of activities involving optical information storage, display devices, automatic inspection systems for photolithographic masks and photolithographic exposure systems at Bell Telephone Laboratories.

April 15 - "OPTICAL COMMUNICATION"
Dr. Mauro Di Domenico
Dr. Di Domenico is head of the Optical Devices and Optical Sub-Systems Department of Bell Telephone Laboratories. He will cover optical fibers, GaAs laser sources, silicon avalanche photodiode detectors and optical carrier system performance.

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REGISTRATION FORM

Mail to: Dr. Bob McMillan, 171 Orange Rd., Montclair, N. J. 07042
Make check payable to "North Jersey IEEE"

Section II, Modern Topics, $20.00

Name ___________________________ Phone (II) ___________________________
Address ___________________________ Phone (W) ___________________________
Company ___________________________

Full-time students will be admitted without charge upon receipt of a statement from the Student Chapter Advisor of their active student and IEEE status.

For further information: R. McMillan 645-5467 (office) or 645-5472 (sect'y) or 744-6794 (home); or call Al Cox 484-3500 (office) or 821-8232 (home).
North Jersey IEEE Meeting: Non-Destructive Testing

On Wednesday, March 17, 1976, at 7:30 PM there will be a joint meeting between the North Jersey ASSC & IEEE Reliability Chapters. Mr. Robert Loveless, director of quality assurance, the Worthington Pump Corporation, will talk about non-destructive testing.

Throughout industry there is a constant need for testing and examination of products by methods and techniques beyond the normal standards. At one time, this need was met principally by "torture-testing" the item to destruction. Over the years many methods have been developed which are non-destructive in nature. The use of non-destructive testing (NDT) (also known as non-destructive examination NDE), has resulted in considerable benefits to industry. From the many methods which have been developed for NDT, Mr. Loveless has selected four types for his discussion: liquid penetrant, magnetic particles, ultrasonic, and radiography.

This meeting is open to all IEEE members, who are encouraged to attend. For further information, contact Ralph Hernandez at 288-2000, Ext. 9590, or Sid Markowitz at 328-5486.

Time: 7:30 PM, Wednesday, March 17, 1976.
Place: ITT Auditorium, 500 Washington Ave., Nutley, N. J.

North Jersey IEEE Meeting: Microwave Power

The speaker at the NJ MTT AP meeting will be Dr. R. L. Camisa, who will talk about the performance of GaAs Schottky Barrier FETS in Linear Microwave Power Amplifier applications. This talk will be circuits and results oriented and will present device power versus frequency curves. Small signal scattering measurements performed on power FETS will be discussed. Amplifier stages incorporating these devices will be summarized.

Dr. Camisa received his BEE, MEE, PhD degrees from City College of New York in 1965, 1969 and 1974, respectively. In 1974, Dr. Camisa joined the Microwave Technology Center at R. C. A. Laboratories, Princeton, N. J. His responsibilities include research on GaAs field effect transistors device technology and linear amplifier development.

For further information, contact Dr. E. W. Niemiec, ITTDCC, (201) 284-2323.

Time: 8 PM, Thursday, March 25, 1976.
Place: ITT Avionics Auditorium, 500 Washington Ave., Nutley, N. J.
Pre-Meeting Dinner: 6 PM at the Ramada Inn, Rt. 3, Clifton, N. J. (Eastbound side)

That's the day 25,000 "delegates" will gather for the opening of ELECTRO/76, the new IEEE international electronics convention in Bicentennial Boston. Just about everything new and significant in electronics will be there — more than 500 hands-on product and systems demonstrations; more than 130 hours of solid, useful professional programming.

It's All Live and Direct

Everything at ELECTRO/76 is up-front and in-person. More than 300 leadership companies presenting the newest high-technology hardware; from microprocessors to "smart" instruments, and from raw materials to complete systems ELECTRO/76 is the biggest all-electronics event in the eastern United States in many years.

All exhibit space in Hynes Auditorium has been sold out for months, and world-wide electronics industry attention is clearly focused on beautiful, springtime Boston.

Programming by Objective

35 half-day professional program sessions have been selected and refined from more than 100 proposals, by a committee of leaders in electronics technology. This program is designed for immediate impact — direct usefulness to professionals in their job assignments with strong emphasis on new-technology applications.

All sessions will be held in ballrooms of the Sheraton-Boston Hotel, immediately adjacent to the Hynes Auditorium exposition halls.

A single low registration fee gives you all four days of ELECTRO/76 — 500 exhibits, strong sessions, and a fine technical film program. All this, and Bicentennial Boston, too!

A Very Special Event

ELECTRO/76 is a brand-new, all-industry event. It combines the best of the Nerei and IEEE Show traditions — and adds much more.

Examples: Fully illustrated and complete session manuscripts will be available on-the-spot; audio tapes of most sessions will be available within a couple of hours. Visitor registration is computerized — it's quick, silent, and it gives each visitor an embossed Inquiry Badge for use in requesting technical literature.

There's an exclusive special exhibit of famous firsts in electronics — historically significant devices and systems. And a continuous showing of award-winning technical and scientific films.

Suburban Bostonians can use our special "Mass Pike-138 Flyer" — a continuous bus system from either of two free-parking lots, direct to ELECTRO/76. (Fare round-trip.) Air and rail transportation to Boston from other eastern cities is frequent and plentiful.

ELECTRO/76 is for you!

If you are reading this ad in this magazine, ELECTRO/76 is for you!

If you design, develop, test, measure, fabricate, inspect, assemble, package, or use electronics, ELECTRO/76 is a very important week for you.

Registration for ELECTRO/76 — for all of it — is just $5 for IEEE members, $9 for non-members. You'll find that's a very modest price to pay for the dozens of new ideas you'll discover for yourself. Make your plans now to join the leaders in Boston — and take home some great ideas!

For further information: ELECTRO/76 31 Channing Street, Newton, Massachusetts 02158 (617)527-6944

Electro76

The IEEE Convention in Bicentennial Boston May 11-14
Hynes Auditorium and the Sheraton-Boston

For further information: ELECTRO/76 31 Channing Street, Newton, Massachusetts 02158 (617)527-6944

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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.

Back Issue Material Available

Back volume subscription rates are: $24.00 per year, $36.00 for two years, and $48.00 for three years. Non-members, $27.00 per year, $40.00 for two years, and $53.00 for three years. Send payments to: The Newsletter, c/o Girardi Associates, Inc., 399 Howard Boulevard, Mt. Arlington, N. J. 07856.

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 Ave., Nutley, N. J. 07110. All communications concerning business matters, including advertising, should be addressed to: The Newsletter, c/o Girardi Associates, Inc., 399 Howard Boulevard, Mt. Arlington, N. J. 07856.

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

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- Classified Advertising

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The twenty-fourth in a series of annual international symposium organized by the Microwave Research Institute of the Polytechnic Institute of New York is being held at the Barbizon Plaza Hotel in midtown Manhattan.

This symposium enjoys the participation of the IEEE Microwave Theory and Techniques Society, CEC, and the IRE and the AFCEA. The symposium is co-sponsored by the IEEE Microwave Theory and Techniques Society, and the IEEE MTT-S and the IEEE AESS.

The Proceedings will be bound and published in book form following the symposium.

Abstracts of all papers will appear in a Program Booklet which will be distributed to all registrants. Members of the IEEE and the ACM may register and observe the Proceedings at reduced rates. Also, early registrants (by April) may deduct 50% from their registration fee.

TUESDAY, 20 APRIL, 1976

Chairman: L. Eley, IBM

"Design Representation Schemes," P. H. B. Eyring, Texas A & M University, College Station, TX.

"Design Representation Schemes," L. J. Peters and L. L. Trupp, Boeing Computer Services, Seattle, WA.


Chairman: B. L. Wolff, Bell Telephone Laboratories, Murray Hill, NJ.


"Notes: A Graph Model for Real-Time Software Development," M. W. M. Aakhir, TRW Systems, Huntsville, AL.

"Program Verification with Assumptions on Knowledge," J. P. Schaenzer, Sperry Univac, Riviera Beach, FL.

"Final Formal Specifications for Programs and Program Schedules," S. I. Gratl, University of Washington, Seattle, WA.

Wednesday, 21 April, 1976

Chairman: J. M. Muller, Applied Physics Laboratory, Johns Hopkins University, Silver Spring, MD.


"An Exploratory Experiment with 'For' Debugging of Programs," J. D. Mars, Bell Laboratories, Whippany, NJ.


Thursday, 22 April, 1976

Chairman: M. C. Wright, Bell Telephone Laboratories, Murray Hill, NJ.


North Jersey Computer Group Meeting


North Jersey IEEE Meeting:

DINNER & WINE

The North Jersey Section of the Power Engineering Society will hold its Fourth Annual Dinner Meeting honoring past chairman on April 29, 1976. The evening will feature a roast top sirloin of beef dinner and a program by Mr. Dominick Morello. Mr. Morello, of State Prize Liquors in Union, will present a program on how and why to select different types of wine. Several wines will be available for tasting purposes. Mr. Morello has spoken to many groups in the area and this promises to be a very informative evening.

This Fourth Annual Dinner Meeting will be held at the Rock Spring Inn, 481 Northfield Ave., West Orange, N.J., Time: 6 P.M., Thursday, April 29, 1976.

Several wines will be available for tasting purposes. Mr. Morello has spoken to many groups in the area and this promises to be a very informative evening.

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