



The IEEE

Newsletter

PUBLICATION OF THE NORTH JERSEY SECTION OF THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS

Volume 26 January 1980 No. 7

Publication No: USPS 580-500

"The IEEE Newsletter" is published monthly except June by the North Jersey Section of The Institute of Electrical and Electronics Engineers, Inc., a nonprofit scientific society dedicated to the advancement of electrical and electronic engineering and the allied arts and sciences. Headquarters: 345 E. 47 Street, New York, N.Y. 10017. Sent automatically and without additional cost to each member of the North Jersey Section. Printed in U.S.A. Second-class postage paid at New York, N.Y. and at additional mailing offices.

NEWSLETTER STAFF

Editor Sidney Bell
Managing Editor B. Blair
Business Manager M. M. Perugini

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: Sidney Bell, Editor, 162 Mohawk Drive, River Edge, N.J. 07661. 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. (201) 398-5524.

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

REPORT ALL ADDRESS CHANGES TO:
IEEE Service Center
445 Hoes Lane
Piscataway, N. J. 08854
(201) 981-0060

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

Chairman Ken Oexle
455-8681
Vice Chairman - 1 Alan H. Stolpen
687-9226
Vice Chairman - 2 Alex Brown
696-4695
Treasurer Frank Relotto
278-7759
Secretary Ann Giedlinski
366-1100, X-221
Member-At-Large Joe Fink
Member-At-Large Len Gardner
Member-At-Large Eugene Niemiec
Jr. Past Chairman Donald G. Bathke

Tax Savings, And Investments For YOU

The January PAC meeting will address both employed and consulting engineers' tax problems and investments. Mr. Anthony P. Burruano, C.P.A., will be the guest speaker. He will discuss how the engineer can keep more of the money he earns by using current changes in the tax laws such as converting non-tax deductible expenditures into tax deductions. In addition, he will outline how to properly evaluate investment opportunities as to risk and potential return. His talk will be followed by open discussion.

Mr. Burruano, is a principal in the firm of Jerold D. Gerstein & Associates, P.A., Certified Public Accountants. The firm represents a wide clientele primarily in New Jersey, Pennsylvania, Delaware, New York, and Florida. They are involved in business and investment syndication, taxation and investment advisory functions, and have conducted lecture programs for local universities and professional societies.

PAC meetings are open to all engineers. Members and guests are invited. Refreshments will be served. Your attendance is requested. Bring along a fellow engineer.

Time: 7:30 PM, Wednesday, January 23, 1980.

Place: ITT Conference Center, 500 Washington Ave., Nutley, N. J.

Pre-Meeting Dinner: 5:30 PM.

Call: Meyer Rosenthal (201) 731-4812 (7-10 PM) for further information and dinner reservations.

PE Exam Review Courses

The Power & Industrial Div. of the New York & Long Island Section has scheduled their Spring 1979 P. E. Review Study Groups, to begin Jan. 7, 1980, and to be completed prior to the New York Professional Engineering license exam in April.

These study groups will be held at 1 World Trade Center, N.Y.C. The fee per study group is: \$65 (members IEEE); \$80 (all others).

For more information contact: Bill Perlman, Chairman, Education Committee, at (212) 986-0803.

Tour of New Jersey Cable Manufacturer

Design, production and test criteria with regard to extruded dielectric transmission cable will be discussed by Mr. David A. Silver, Senior Vice President, Research and Development, Pirelli Cable Corp., Union, N. J. at the January 30, 1980 meeting-tour of the NJ Power Engineering Society Chapter.

There will also be a slide presentation covering the manufacture, testing, jointing and terminating of 138 kV cable. The specific installation is the largest 138kV extruded dielectric cable in the United States.

A tour of the Pirelli Research Center will conclude the program.

Reservations are required. Please contact Edward P. Griffith (201) 455-8313 or John A. Baka (201) 455-8534 for exact time, directions and reservations.

Lasers In Surgery

"Laser Applications in Surgery" is the subject of the February 6, 1980 meeting of the Metropolitan New York Chapter of the Engineering in Medicine and Biology Society.

Speaker for this evening meeting will be Yair Toor of Cavitron Corp.

Time: 7:30 PM, Wednesday, February 6, 1980.

Place: Rockefeller University, Bronx Laboratory, Room 216, 66th St. and York Ave., NYC.

Pre-Meeting Dinner: 6 PM, Tower Cafeteria, 64th St. & York Ave.

Additional Information: Maryon J. Williams, Jr. (609) 452-9280.

Your Chance To Nominate Fellows

North Jersey Section members are encouraged to consider nomination of eligible colleagues for IEEE Fellow Awards.

Each nomination needs extensive documentation and, in addition, written endorsements must be secured. In the case of Fellow nominations, for instance, at least five Fellows must provide written endorsements based upon their personal familiarity with the nominees contributions; and at least one professional group or society must provide written evaluation of the nominees contribution.

It takes months, and sometimes years, to prepare a successful case.

If you believe one of your colleagues deserving of award recognition, you may obtain a nomination guide and forms from the Secretary of the Awards Board at IEEE Headquarters, 345 East 47th Street, New York, N.Y. 10017. Members of the Section Award Committee are prepared to comment on nominations and to provide suggestions for improvement of the documentation.

Members - 1980 NNJ Section Awards Committee

U. F. Gianola, Bell Laboratories, Whippany, N. J., (201) 386-2593

P. S. Christaldi, Celco, Mahwah, N. J., (201) 327-1123

N. A. Bleshman, Public Service Electric & Gas Co., Newark, N. J., (201) 430-8091

E. I. Gordon, Bell Laboratories, Murray Hill, N. J., (201) 582-4321

J. B. Minter, Components Corporation, Denville, N. J., (201) 627-0290

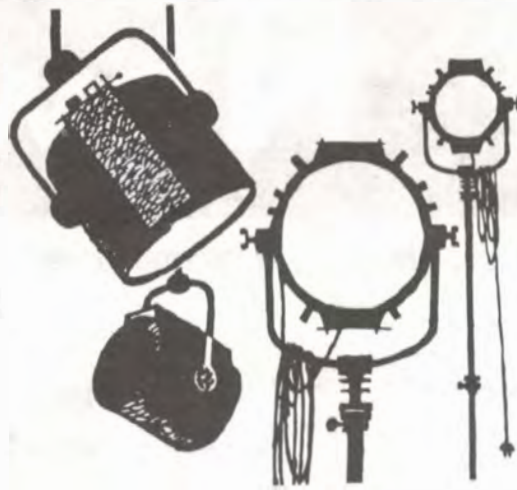
J. D. Tebo, (201) 239-0125

F. A. Russell, N. J. Inst. of Technology, Newark, N. J., (201) 645-5279

R. A. Huse, Public Service Electric & Gas Co., Newark, N. J., (201) 420-6635

J. S. van Savage, Armament Res. & Develop., Dover, N. J.

R. Bowyer, Bell Laboratories, Piscataway, N. J., (201) 981-6361.



SPOTLITE ON NORTH JERSEY

This past fall members of the North Jersey Section were requested to cast a ballot for the Office of Director-Region I. As you are probably aware, Hans Cherney was the successful candidate succeeding Jim Shepherd.

Just how do we interface with Region I?

The North Jersey Section is one of about 20 Sections in the Northeast which comprise Region I. Geographically, the region extends from Maine to New Jersey. It also covers Sections in the states of Vermont, New Hampshire, Massachusetts, Connecticut, Rhode Island, Long Island, and New York.

The Region I Director and all Section chairmen meet as a group semiannually in day-long sessions. These meetings are generally scheduled in the fall and in the spring.

These sessions provide the forum to express the concerns of the membership to the leadership of IEEE. For example, at our Spring, 1979 meeting both candidates for the Office of the President were in attendance and we had the opportunity to query them on their views about professional activities, engineering registration, pensions, cost of IEEE services, membership dues, technical publications, and their time availability to carry out the responsibilities of the office. Paul Carroll, Vice President-Regional Activities, was also present at the session and answered questions posed by the Sections.

A capsule summary of the agenda of the Fall, 1979 meeting provides some additional insight to the business conducted at a typical Region I meeting. It included:

1. Introduction of the new Region I Director for 1980-1981.
2. Review with the Region I Director programs to receive support by the IEEE Board of Directors, Regional Activity Board, or the United States Activity Board.
3. Discuss the use of Region I funds for Special Section Activities of a technical, educational, or professional character.
4. Review revision to Region I By-Laws.
5. Discuss possible revisions to the By-Laws to incorporate the election of a Region I Director-Elect who would work directly with the Section Chairman for a year or two prior to becoming Region I Director.
6. Explore ways to communicate local Section news items into an integrated page of Region I News for SPECTRUM.

Over the past few years, it has been the practice of the North Jersey Section to have both the Chairman and Vice Chairman-I attend the Region I meeting. We believe that attendance by two Section officers is in the best interest of our members, and permits more active participation in Region matters. It also assures continuity in representation at the Region I level. — Ken Oexle

"I strongly support a change in the status of engineers recruited abroad to Classification H-1 of the U. S. Immigration and Naturalization Service. Mr. Feerst notwithstanding, there is a great shortage of highly qualified electrical engineers, particularly in the software field. My company certainly will not be able to hire as many as it would like." — E. E. Summer, V. P. Technical Affairs, IEEE Communications Society, Bell Laboratories, New Jersey.

"Many companies use engineers as technical employees rather than as professionals. It is that practice which increases the sense of a shortage. Keeping H-2 certification is one way of focusing attention on the real problem." — Carlton Rush, Sr. Environ. Engr., Cleveland Electric Illuminating Co., Ohio.

"Unfortunately, supply and demand has caught up with academia and we depend heavily on foreign(alien)engineers with PhD's, however, I am still in favor of current visa requirements." — Dr. Russell Hayes, Jr., Prof. & Chrm., EE Dept., Univ. of South Alabama.

"Am in favor. We will (in about 10 years) need the advanced technological know-how they could bring into the U. S." — Bruce Rosenberg, Research Engr., NAFEC, New Jersey.

Model Patent Agreement

Presently there is a USAB Task Force working on a model Patent Agreement. This agreement can be used by employer and employee and consultant. The preliminary draft (3 pages) is available for review by section members. It is said that this embodies many improvements to existing agreements. There is still room for improvement. I see nothing here to motivate employees to innovate

or, more specifically, enter into the pursuit of any patents.

I am looking for some section members with the interest or patent experience to review and revise this proposed agreement. Our Executive Committee may then support the agreement or suggest improvements.

Only a short time effort is required by the interested members. Now is the time to be helpful.

Enhance Lobbying

Here is where our Section flaunts its impotence. For a successful "Minuteman Program" we should be able to put 20 letters on the desk of any congressman on any issue of concern. To do this we need the joint effort of the membership. Some members must write. Some must set up a mailing list. Some must cover specific subjects. A company typing pool would help. More than one would be even better. A cooperative effort between employer and employee is required.

Remember the B-1 Aircraft. There were many editorials against it, but none were in its defense. We lost the jobs and the associated technology.

How about the other projects that will provide our industries and manpower with income. Should we lobby for them? USAB funds are available for this effort.

Question Of The Month —

Are your interests or the interests of your company represented on the Executive Committee level?

Save On Taxes

Check this issue for the January PAC meeting.

Computers Or Communications

Members or engineers interested in these areas are requested to contact Ken Oexle at 455-8681. IEEE Section funds are available to provide for meeting places and refreshments for monthly meetings in these activities.

You are already paying annual dues for these benefits. No additional expense is required. Novices and experts get together at these meetings to enhance their careers and meet people with common interests. Your next job could result from a meeting or you might find an associate that can help in your assignments.

AEA To Sue Over The Hiring Of Alien Imports

The American Engineering Association (AEA), not to be confused with the American Electronics Association, has filed a suit in federal court against three federal agencies and major U.S. corporations.

The law suit alleges that in fact these corporations had no intention of hiring qualified U.S. residents, did not make a good faith search for U.S. resident workers, and, in fact, discouraged them from applying by offering compensation at below market wages and by poorly publicizing job openings. The suit also alleges that the corporations conspired to avoid the laws by filing false applications for alien employment certification. The motive is to obtain: cheap labor, indentured employees, and create an oversupply of engineers.

Further information may be obtained from the American Engineering Association, 1712 Newport Circle, Santa Ana, Ca. 92705; (714) 549-4911.

Look What's Happening at Teleray!



Teleray is on the move in smart terminals. Our list of satisfied users is growing rapidly, and for good reason. These terminals are:

- **ESPECIALLY SMART** — 32 programmable keyboard functions, full editing, formatting and tabular control, interactive and block mode communication.
- **APPLICATION DESIGNED** — Available in APL (true overstrike), or as DEC, DG or Microdata replacements . . . together with Teleray "intelligence".
- **PACKAGED TO SUIT** — Attractive Model 10 format for "front office" use, Model 1061 for rugged day-to-day use in any environment, and Model 10-R for standard equipment racks.
- **INSTANTLY SERVICEABLE** — Replace snap-in logic, power, monitor or keyboard modules in seconds, no tools, no down-time. Reusable mailers make service fast and simple.

Teleray terminals have the lowest price/performance ratio in the business. Be a part of what's happening in smart terminals. Look into Teleray!

See Teleray and see the light!

TELERAY



DIVISION OF
RESEARCH INC

Hansen & Hughes

P.O. Box 806

Ridgewood, N.J. 07451

Phone: 201-944-1600

201-652-7055

800-526-5114