



The IEEE

# Newsletter

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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.

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## VOTE: USE BALLOT ON BACK PAGE

### Electrifying NJ Transit

The May 30, 1984 meeting of the North Jersey Power Engineering Society will feature a presentation of the new railroad electrification projects on the NJ TRANSIT System. The speaker will be Mr. Robert A. Keith, P.E., Director of Electrification Projects, NJ TRANSIT.

#### About The Speaker

Mr. Keith joined NJ TRANSIT in 1980 as Director of Electrification Projects. From 1978 to 1980, Mr. Keith was Assistant Commissioner for Public Transportation at the New Jersey Department of Transportation.

As Assistant Commissioner, he became involved with NJ TRANSIT in the Morristown Line re-electrification project as well as in the North Jersey Coast Line electrification project. At NJ TRANSIT, Mr. Keith provided overall guidance to NJ TRANSIT's finance, design, and construction management associated with the Morristown Line re-electrification project. In 1983, he also assumed responsibility for managing a second electrification pro-

ject on the North Jersey Coast Line involving the extension of electrification from Matawan to Long Branch.

Previously, Mr. Keith served for ten years as Vice President of Alan M. Voorhees & Associates, transportation engineering consultants based in Washington, D.C. In this position he had a major role in initiating the Washington, D.C. subway program and also directed system expansion for the Massachusetts Bay Transportation Authority in the mid-1960s.

#### Election To Be Held

The annual election of PES officers will take place at this meeting.

**Time:** 7:30 PM, Wednesday, May 30, 1984.

**Place:** Jersey Central Power & Light Co., Madison Avenue and Punch Bowl Road, Morristown, N.J.

**Directions:** Interstate 287, Exit 31, take Route 24 South (toward Madison). Jersey Central Power & Light Company is on the left, one block after the fourth traffic signal.

**For Further Information:** Edward P. Griffith (201) 455-8313.

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## Robert De Lucia Is Cancer Victim

The Executive Committee of the North Jersey Section, Institute of Electrical and Electronic Engineers, Inc., (IEEE) is saddened to hear of the premature death of Robert De Lucia, PhD., of the New Jersey Institute of Technology. Robert died of cancer on March 16, 1984. He was 43.

As a memorial and token of appreciation of his activities to the IEEE, the North Jersey Section Executive Committee has voted to donate the sum of \$100.00 to the American Cancer Society.

Members who wish, may send their contributions to: American Cancer Society, P.O. Box 601, Edison, N.J. 08818.

## Port Authority Looking For NJ Firms

The Port Authority of New York and New Jersey is looking to add New Jersey firms to their listing of prequalified professional service firms in order that they may be considered for providing professional services to the Port Authority.

At present they have approximately 400 engineers on staff but realize they have approximately 800 man years of work to perform each year. At a meeting on March 27, 1984, they have stated their intention to fill this gap of 400 man years externally by one of the two following methods:

1. Competitive bidding to supply professional services on an individual project. The list of bidders is obtained from a pre-qualified listing selected by a (different) panel of 3-4 persons on each project.
2. Retainer program: similar to a job shopping program, to fill in work gaps, whereby a firm is selected on a rotating selection basis, by discipline, for the type of professional services required, to provide professional services and the supervision of these professional services in coordination with the P.A. on a project. The

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## INTRODUCTION TO PROGRAMMING IN ADA

### A TWO WEEK SUMMER INSTITUTE (A HANDS ON APPROACH)

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**(201) 547-2001**

maximum fee payable in this program is \$250,000.

The listing for this retainer program is kept separate from that of the competitive bidding.

It is estimated that the capital program for 1984 will be 840 million dollars and the projected 1984 to 1989 -- five year program is 2.2 billion dollars.

For the necessary applications write or call: Peter C. Goldmark, Jr., Executive Director, P.A., NY & NJ, One World Trade Center, New York, N.Y. 10048 (201) 622-6600, Ext. 7271.

## Letter To The Editor

While I have not been asked to participate in North Jersey Section activities for several years, I do usually read the Newsletter. Today's letter by Maitland begs for a response which I would like to offer here.

I concur with Maitland McLarin's call for better ways of communicating to the membership the time and place of outstanding technical programs. It was a past practice in the Power Group to set up a mailing of flyers to all employers of five or more electrical engineers. Employers were asked to cooperate by allowing these flyers to be posted. It should not be difficult to sell employers on the importance of keeping their engineers technically informed.

Other engineering societies have met the challenge of keeping members of neighboring chapters and sections informed of special programs through advanced notices to their newsletter.

Mike please send my best regards to my old friends.

Sincerely,  
NORMAN A. BLESHEMAN

## Management's Slate

The 1984-85 year officers for the New York/North Jersey Chapter of the Engineering Management Society were elected at the March 18, 1984 general membership meeting held at the Swiss Bear Restaurant, 20 East 41st Street, New York, N.Y. There were no other nominations than those submitted by the Nominations Committee.

Mr. John Van Savage, Chairman of the nominating committee reports that the

installation of officers will take place in New York City at the May, 1984 meeting, date not as yet known.

The following are the 1984-85 year elected officers:

Chairman:	Martin Izaak (NYPA)
Vice Chairman:	Harry M. Stokes (IBM)
Secretary:	Al Bottani (ATT)
Treasurer:	Ernest Spumberg (NYPA)

## Fellow Biography

*(Last month, we were unable to print the biography of new IEEE Fellow Stephen Weinstein which follows)*

Stephen B. Weinstein, received degrees in electrical engineering from MIT (SB 1960), the University of Michigan (MS 1962) and the University of California at Berkeley (PhD 1966).

After a year with the Philips Research Laboratories in Eindhoven, the Netherlands, he joined Bell Laboratories in Holmdel, New Jersey. His work there contributed to the development of modems for high-speed data communications on telephone lines, and resulted in numerous publications and patents. He is best known for his work on data-driven echo cancellation for high-speed two-way data communications on dialed telephone lines, which is represented in new international standards and development projects in Europe and the United States.

In 1979, Dr. Weinstein joined the American Express Company subsidiary, Payment Systems, Inc. In 1980 he transferred to what is presently the Office of Corporate Development and Planning of the parent company. Here he is Vice President for Technology Strategy and Chief Scientist, with responsibility for advising management on technical issues. He is known as an expert on electronic transactional systems and communications technologies, and particularly on integrated circuit ("smart") cards.

Dr. Weinstein is a member of the Board of Governors of the IEEE Communications Society and Editor in Chief of "IEEE Communications" magazine. In 1982, he was an Adjunct Professor of Electrical Engineering at the Polytechnic Institute of New York. He is a member of advisory committees to the U.S. Treasury and the U.S. Congress Office of Technology Assessment on electronic payment systems and the evolution of financial industry technology.



## Associate Members: Time To UPGRADE!

If you have a Bachelors Degree or at least three years experience, you are probably qualified for Member Grade.

If you have more experience, you may be eligible for Senior Member Grade.

There is no increase in dues for the higher membership grades.

You can get details on advancing to a higher grade by contacting Don Weinstein, Kulite Semiconductor, 1039 Hoyt Avenue, Ridgefield, N.J. 07657 (201) 945-3000.

## All About Alarm Systems

The New York/New Jersey Chapter of Consumer Electronics Society will hold a June 19, 1984 meeting on "Alarm System Development — A Retrospective from Relays to Microprocessors."

Mr. Martin Raphael, V.P. Engineering at Ademco. Inc., will be the speaker.

This meeting is open to all. The group is trying to determine if there is any interest on Long Island for a Consumer Electronics Chapter.

**Time:** 7:30 PM, Tuesday, June 19, 1984.

**Place:** The Polytechnic Institute of N.Y., Route 110, Farmingdale, N.Y.

**Further Information:** Marvin Kurland (212) 492-7777; Theodore Fishman (516) 921-6704.

## Low Bit Rate Digital Voice

"Low Bit Rate Digital Voice" will be covered by Jack Carmody of ITT Defense Communications at the June 13, 1984 meeting of the LI Chapter of COMSOC  
**About The Talk**

This review covers several parameter models for digital speech transmission at rates less than or equal to 2400 bits per second. Advantages of digital speech and these parameter models are then reviewed. Specific cases of actual voice algorithms using Linear Predictive Coding, Vector Quantization, and Automatic Speech Recognition (ASR) are covered. Examples of output speech and applications will be presented.

### About The Speaker

Jack Carmody is a Senior Member of the Technical Staff at ITT Defense Com-

munications Division in Nutley, N.J. He has been one of the Principal Investigators in ITT's low bit rate voice research; he has also been responsible for the implementation of various real-time voice systems. Before coming to ITT, he was the staff engineering physicist for the High Energy Physics group at the University of Maryland.

**Time:** 8:15 PM, Wednesday, June 13, 1984.

**Place:** New York Institute of Technology, Route 25A, Old Westbury, N.Y. Dairy Barn Building.

**Pre-Meeting Dinner:** (Optional): 6:00 PM, Milleridge Inn, Route 106/107 and Jericho Turnpike, Jericho, N.Y.

**Dinner Reservations:** Jerry Power (516) 435-6704.

## Facing Career Problems

"Managing Your Career—An Ongoing Process" will be the topic of discussion lead by Jay Gilbert, Ph.D. of Professional Development Systems at the June 6, 1984 joint meeting of the New York Section Reliability Chapter Professional Activities Committee for Engineers, (PACE), the Engineering in Medicine & Biology Chapter (EMBS), the Power Engineering Chapter (PES) and Industry Applications Chapter (IAS). All New York Section members are invited.

### About The Speaker

Jay Gilbert, Ph.D. of Professional Development Systems has pioneered in the development of the role of mentor for working engineers and technical professionals. Dr. Gilbert was formerly with IBM and is now on the faculty of Empire State College SUNY, an alternative education for working adults. During the past ten years he has specialized in structuring technical learning projects with individuals within their work environments.

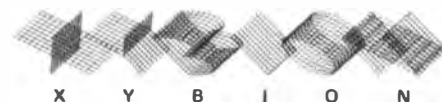
A metallurgical engineer, materials scientist, and technical educator, Dr. Gilbert has successfully helped professionals from a wide range of backgrounds.

**Time:** 7:30 PM, Wednesday, June 6, 1984.

**Place:** Stone & Webster, 39th Floor - Training Room, One Penn Plaza, New York, N.Y.

**Pre-Meeting Refreshments:** 7:00 PM.

**Further Information:** Maryon J. Williams, Jr., Ph.D, Hospital Engineering Logistics & Planning, Inc, (609) 683-1990, or Len Rubinstein, Stone & Webster, (212) 290-6536.



## ENGINEERS PHYSICISTS

An established R&D firm seeks specialists for openings in signal processing and control systems engineering. Positions are available for BS, MS and PhDs in applied science or engineering with 3 or more years' relevant experience. Qualified applicants should have a working knowledge of FORTRAN. Work on systems to advance the state-of-the-art in:

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## NEW FELLOWS



*Melvin I. Cohen*



*Daniel L. Goldberg*



*Aaron E. Rosenberg*



*Jacob W. Schaefer*

*Stephen B. Weinstein's photo was not available at press time.*

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## A Sample of Present Openings

### Digital/Analog Engineers

Signal Processing Analyst	To \$38,000
M6800 Microprocessor Designer	To \$32,000
ECL Digital Designer	To \$38,000
Analog Data Acquisition Designer	To \$40,000
Power Supply Engineer	To \$38,000
Project Engineers — Digital	To \$35,000
Microwave Design Engineer	To \$35,000
Communications Systems Engineer	To \$49,000
Senior Analog Engineer	To \$40,000

### Marketing/Sales

Sales Engineer	To \$70,000
Application Engineer	To \$40,000

### Microprocessor Engineers

Microprogrammer - 8085	To \$34,000
Diagnostics Software Engineer	To \$35,000
Senior Communications Programmer	To \$40,000
Software Product Assurance	To \$45,000
CPU Systems Designer	To \$41,000
Graphics Microcoder	To \$40,000
CAD/CAM Engineer	To \$39,000
Intel 8086 Image Processing	To \$46,000
Local Networks Designer	To \$40,000
Electronics Packaging Engineer	To \$30,000
Microelectronic Connector Engineer	To \$35,000

### Test Engineers

IC Test Engineer	To \$32,000
ATE Test Engineer	To \$35,000
Diagnostic s/w Testers	To \$30,000
Instrument Test Engineers	To \$38,000
Test Supervisor	To \$32,000
Test Engineering Manager	To \$45,000

### Management

Software Managers	To \$45,000
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|   | <input type="checkbox"/> Resume enclosed                 |



## Are Baby Boomers In Trouble?

Gene A. Nelson, membership chairman of the Metropolitan Chapter of the Engineering in Medicine & Biology Society, has arranged a May 28 Symposium on "Solutions for Entry Level Scientists — Developing Employment Options in the 80's."

Mr. Nelson will preside at the meeting, which starts at 9 AM in the 3rd Floor Registry Foyer of the Sheraton Centre. He will introduce the program with a talk entitled "I'm a member of the 'Baby Boom' Where Can I Find a GOOD Job in Science?"

This will be followed by a panel discussion with participants:

John Crystal, Chairman, John C. Crystal Center, Crystal-Barkley Corp., NYC.

Betty Maxfield, Director, Survey of Doctorate Recipients, NAS-NRC, Washington, D.C.

Betty Vetter, Executive Director, Scientific Manpower Commission, AAAS, Washington, D.C.

Westley Clark, Health Counsel to the Minority Committee on Labor and Human Resources, U.S. Senate, Washington, D.C.

### About The Symposium

The primary objective of this symposium is to provide a resource to assist entry level scientists in finding constructive employment. Currently, there is an apparent oversupply of new scientists and engineers in almost all areas except computer science. Open academic positions are almost completely nontenure track positions, or underpaid postdoctoral appointments. National laboratories, which used to provide a variety of entry level positions are slated for staff reductions rather than supplying new positions. Many entry level scientists

are inadequately informed of strategies and options with respect to employment by their graduate advisors. The advisors must spend much more time seeking and maintaining grant support. Also, "the rules of the game" have changed from the previous generation. The result of not addressing the problem is serious underutilization of scientific talent.

### About The Panel

The panel members have been selected to provide a variety of perspectives to the problem. John Crystal has co-authored a very successful book, "Where Do I Go From Here With My Life" with Richard Nelson Bolles, the author of "What Color Is Your Parachute?" and "The Three Boxes Of Life." Betty Maxfield has been involved in collecting and analyzing data for about ten years on the disposition of new Ph.Ds. Westley Clark is involved with federal policies influencing scientific manpower in the Senate. Betty Vetter has had a long history of being involved in scientific policy and manpower issues in the AAAS.

### Additional Details

More information is available from Mr. Nelson at (914) 747-2110.

## Will We Have Enough Power?

"The Energy Outlook" will be discussed by S.A. Mallard, Sr. VP, PSE&G at the May 31, 1984 meeting of the New York & Long Island Section of the Joint Power Engineering Society & Industry Application Society.

### About The Talk

Some of the topics to be covered by Mr. Mallard will be:

- PSE&G's price experience and current projections in comparison with CPI
- Operating costs
- Construction program
- Importance of nuclear
- Assuring adequate supplies of energy
- Holding down costs
- PSE&G and industry R & D activities
- Conclusions - conservation, coal and nuclear
- Importance of R & D for the future

### About The Speaker

Mr. Stephen A. Mallard has been employed by Public Service Electric and Gas Company (PSE&G), Newark, New Jersey, since 1951. He has held various assignments in electric distribution, system planning and development, and research. Presently

he is Senior Vice President - Planning and Research with PSE&G and President of PSE&G - Research Corporation.

Mr. Mallard's professional activities include membership in CIGRE, Conference Internationale des Grands Reseaux Electriques a Haute Tension, (International Organization of Large, High-Tension Electric Systems), and its study committee on system planning and development. He represents the Company on the Pennsylvania-New Jersey-Maryland (PJM) Management Committee and the Mid-Atlantic Area Council (MAAC) Executive Board. He is a member of the Executive Board of the On-site Fuel Cell Users Group of the Gas Utility Industry, and industry advisor to the Gas Research Institute. He serves as a member of the Electric Power Research Institute Research Advisory Committee and recently he has been elected to the IGT Board.



In addition, he has authored a number of papers on various aspects of utility system planning and research.

He is a Fellow of the Institute of Electrical and Electronics Engineers and a member of the National and New Jersey Society of Professional Engineers.

Stephen A. Mallard graduated from Stevens Institute of Technology in 1948 with a degree in Mechanical Engineering. In 1951 he obtained a Master's Degree in Electrical Engineering from Stevens Institute.

Time: 5:30 PM, Thursday, May 31, 1984.  
Place: Stone & Webster, 1 Penn Plaza, 39th Floor, NYC. (Training Room). Refreshments will be served.

Further Information: Robert Schultz  
(914) 681-6665.

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# PACE NEWS

Professional  
Activities  
Committee for  
Engineers

By R. Tax

## New York Section Chairman Says: Salaries Not Keeping Up With Costs!!

The IEEE Survey Task Force of the United States Activities Board (USAB) recently published the results of its 1983 IEEE U.S. Membership Salary and Fringe Benefit Survey. The Survey was conducted nationwide and included all member grades above student level.

The purpose of the survey was to "continue the development of data for long-term salary trends and benefits that have already been found so valuable by members of the electrical/electronics and computer engineering field in determining salary and compensation practices."

Perhaps some of the highlights of this Survey would be of interest to Monitor readers:

- \* The median annual income of survey participants was \$40,000 as of February 1, 1983. This represents an increase of 15.9% since the preceding survey (1981) compared to an increase in the Consumer Price Index of 18.4% since that survey.

- \* Since the 1979 survey, EEs' income has increased 33.8% whereas the Consumer Price Index has increased about 49%. This represents about a 15.2% decrease in EEs purchasing power.

- \* Some 33% of all respondents reported income from commissions and bonuses, the median amount being \$2,238.

- \* Unemployment was extremely low, less than 0.1% of all respondents.

- \* About one-quarter of the respondents reported supplemental income. The median category was \$1,500 to \$2,400.

- \* Income showed a consistent but flattening increase with increased engineering experience. The median income of those working in their areas of primary technical competence increased from \$27,114 for those with under two years of experience to \$49,974 for those with 30 years of experience or more.

- \* Income by highest degree earned was greatest for those with doctoral degrees, a median of \$48,225. Lowest median income was \$30,500 for those with B.E.T. degrees even though this category was not the "lowest" degree earned.

- \* Concentrated geographic areas, rather than total region, seemed to show the highest income levels, as might be expected. Los Angeles/San Diego had a median income for all EEs of \$46,700 followed by New York City (\$46,100), and Washington/Baltimore (\$45,200). Boston had a median income of \$45,000.

- \* Median income by primary technical specialty (IEEE Society) was highest for those in Engineering Management (\$50,848), followed by Antennas & Propagation and Aerospace & Electronic Systems (\$46,000). Lowest paying area was Engineering in Medicine and Biology (\$35,500).

- \* Of the respondents who were not self-employed, 88% reported that their employers provided pension plans, and 62% reported that they received other supplemental plans such as profit-sharing, savings plans, etc.

- \* Almost 52% reported that they have an IRA plan to which they and/or their spouses contribute. The median amount contributed was \$2,250. Only 13% enrolled in a Keogh plan.

- \* Almost two-thirds of the respondents reported that their employers paid the entire premium for the employee's insurance and over 45% that the premium covered the entire family.

- \* In recent years dental coverage by employers has been increasing both in terms of number of employers providing it and percentage of premium paid. In this survey 80% of the employers provided a dental plan, 65% paid the entire premium for the employee and almost 45% paid the entire premium for dependents.

- \* Only 5% of all EEs did not have an employer-provided life insurance program. Of those that did provide a policy, over 57% paid the entire premium for the employee.

The above information was derived from *IEEE U.S. Membership Salary and Fringe Benefit Survey 1983*, The United States Activities Board, The Institute of Electrical and Electronics Engineers, Inc.

ROBERT E. MENDOZA

(Editors Note: A special thank you to Robert for his extra effort in providing us with this information.)

# Pensions: Let The Engineer Beware!

Since a Federal law was passed to provide the employee some safeguards in company pension plans, many engineers have relaxed and ignored or not bothered to read the fine-print details of their company pension programs. They feel they are protected. This is not necessarily the case, however, since there may be loopholes or weaknesses.

Some questions that every engineer should ask are:

- What happens to the money in my pension plan if I leave the company before retirement?
- Does my pension, if vested, continue to accumulate earnings? At what rate?
- What happens if I die before age 55 and have a vested company plan? Do things change if I am not employed by the company?

These are a few of the important pension questions. It is the engineer's responsibility to know. An actual example of the engineer's need to know these answers occurred recently for two engineers who left a fairly large company in 1977. At that time, the projected payout for one engineer at age 55 was \$41,000. In 1983, when he reached age 55, the actual payout was reduced to \$25,000, of which \$20,000 had been paid in by the engineer from his income. He should have taken a cash payout and reinvested it. There was a similar type of reduction for the other engineer.

The Federal pension law does not automatically provide protection for you in all cases. It is the responsibility of engineers to know their own pension plan features and limitations, and they may suffer if they don't. All engineers should become familiar with their pension plans, and we in PACE, the Professional Activities Committee for Engineers, will be asking engineers about their plans, so that they might avoid disappointments in the years to come.

The reason given for the decrease mentioned above is that the payout is based on a constant rate of monthly, annuity-type, payments. Since interest rates increased drastically between 1977 and 1983, the capital required became less. Bond-type, commercial annuities operate the same way. This really hurts the person who wants, or needs, a lump sum payout after interest rates have gone up. An additional question that needs to be answered is: is the lump sum payout increasing during the years that interest is falling?

—David W. Ford, PACE Chairman,  
Ft. Wayne Section and Region 4 East  
and

Alan B. Showalter, Editor  
Ft. Wayne Section Announcer

(Reprinted from "IEEE IMPACT", December, 1983.)

Editors Note: It is important that any companies participating in the practices of pension abuse lower the standards of the profession and may temporarily achieve some financial advantages over other companies. To discourage this abuse and protect the companies with quality pension plans, we will give maximum visibility to any abuses found within our Section.

## Working Conditions For Engineers

The meager single paragraph below is presently used to inform or misinform the American public and our high school students about working conditions for engineers. This paragraph is located in the center of page 57 of the 1982-1983 issue of the "Occupational Outlook Handbook."

### WORKING CONDITIONS

Some engineers are at a desk almost all of the time but others work in research laboratories or in industrial plants. Engineers in specialties such as civil engineering may work outdoors part of the time. A few engineers travel extensively to plants or construction sites. Some work overtime to meet deadlines, often without additional compensation.

The Handbook may be found in every library in the U.S. and it is used by high school guidance counselors to help them aid our young optimistic students.

The individual responsible for writing this is Douglas Braddock, Dept. of Labor, Bureau of Labor Statistics, Rm. 400, 601 D St. N.W., Washington, D.C. 20212, telephone (202) 272-5296. I'm sure Mr. Braddock could use some help with this since he does not have an engineering degree or any experience in the field of engineering. Perhaps you might write or call and provide him with some information that he is missing.

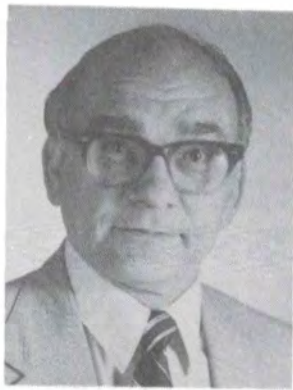
You might consider this an opportunity to express your concerns.

Good luck and please keep me posted.





*John Baka*



*Alex T. Brown*



*Charles A. Coulomb*



*Anne M. Giedlinski*



*Eugene Niemiec*



*Kenneth J. Oexle*



*Morris M. Perugini*



*Frank Relotto*



*Max J. Schindler*



*Alan H. Stolpen*



*Richard F. Tax*



*John F. Van Savage*



*Donald Weinstein*

## **CENTENNIAL MEDALS**

## 1984-85 SECTION OFFICERS NOMINATIONS

### EUGENE W. NIEMIEC — Chairman

Eugene W. Niemiec is a graduate of Newark College of Engineering, 1961, BSEE. After a seventeen year career as Senior Member of the Technical Staff with the Microwave Advanced Development Department of ITT Defense Communications, Nutley, N.J., Mr. Niemiec joined Merrimac Industries Inc., of West Caldwell, N.J., as their Technical Director in June, 1979. In August, 1981, he was appointed Executive Vice President/Technical Director.

Mr. Niemiec presently holds the post of Vice Chairman of North Jersey Section IEEE. He also held the posts of Treasurer, Secretary and Member-at-Large as well as Chairman of North Jersey MTT/AP Chapter for 1976 thru 1978.

Mr. Niemiec holds numerous patents related to the microwave field and has authored several papers, most recent of which was presented at the North Jersey IEEE sponsored BCEE Chapter during April, 1981.

### RICHARD F. TAX — Vice Chairman — 1

Richard Tax has a BSEE degree and is a Senior Member of the IEEE. He was awarded his Senior Membership based on his experience in the design of precision electro-mechanical servo systems.

Mr. Tax is currently a Vice Chairman of the North Jersey Section. He received the North Jersey Section Award for Leadership in 1979 and the Region 1, United States Activities Board (USAB) Award for Leadership in 1981. He has been active in the Section since 1974 and was appointed as Chairman of our Professional Activities Committee for Engineers (PACE) in 1976. Richard has also served the Section as a Member-at-Large.

As PACE Chairman he obtained Section support to extend coverage of the IEEE Code of Ethics to include all IEEE Members and not only engineers. He was responsible for extending Section Executive Committee and PACE meetings to include the summer months, thus maintaining Section activities and continuity throughout the year.

As PACE Chairman he organized more than 40 meetings and advises other IEEE Sections on PACE activities. Richard originated and managed Project EGO, a program to stimulate member interest by adding the PACE NEWS column to our Section Newsletter. This project is now in its 6th year and was funded by USAB. He

wrote more than 60 articles dedicated to professional activities.

Richard has actively participated in seven National PACE/USAB Conferences and assisted members of the Service Contracts and Career Maintenance Task Force.

In 1977, he started the USAB Task Force for the BLS, Occupational Outlook Handbook. With Congressional Assistance this Task Force made significant corrections to the Handbook. He has directed the efforts of this operation for the past 6 years. This effort is now supported by the entire USAB Manpower Task Force.

During 1982 he Chaired the ad-hoc committee to write the "1983 USAB Management Goals." The primary Goal being to, "Fulfill the needs of our members."

Richard is presently a member of the USAB Manpower Task Force and he continuously stresses the importance of Membership participation at our North Jersey Section level.

### JOHN F. VAN SAVAGE — Vice Chairman — 2

John Van Savage, is associated with the United States Army Communications and Electronics Command (CECOM) as a senior electronics engineer in its Center for Systems Engineering and Integration.

Mr. Van Savage is a recipient of the IEEE Centennial Medal. He was awarded the North Jersey Section Meritorious Service Award in 1981. Mr. Van Savage is currently (1983-84) the Treasurer of the North Jersey Section. He was the past chairman of the Control Systems Society and is a past chairman (1982-83) of the New York/North Jersey Section Engineering Management Societies and was a Member-at-Large, North Jersey Section 1982-83. He was also active in the Educational Committee and coordinated the CMOS and MOS Circuit Design courses with RCA engineers who worked in this state-of-the-art discipline.

Mr. Van Savage also serves on the IEEE Admissions and Advancements and North Jersey Section Fellows and Awards Committee. He served on the IEEE Electro '79 Industry Reception Committee and played a major role in obtaining the 1/50th scale model of the Apollo Space Shuttle from Rockwell International for Electro '79. He is a member of the New York Academy of Science and SIGMA XI, the Scientific Research Society of North America, the American Physical Society and other electronic-defense orientated organizations.

**CHARLES A. COULOMB — Treasurer**

Charles A. Coulomb joined Jersey Central Power and Light Co., in 1963. He has held positions in facility planning, forecasting and project management. Presently, he is Distribution Planning Manager in charge of distribution facility planning and project management. His IEEE activities include Secretary and Publicity Chairman of the North Jersey Section as well as a member of the Admissions and Advancement Committee and an Electro committee member.

**ROBERT SINUSAS — Secretary**

Robert Sinusas has been involved with the Executive Committee of the North Jersey Section of the IEEE since 1975. During 1975-1976 he was the Chairperson of the Socio-Economics Committee. The Socio-Economics Committee was the forerunner of the present PACE Committee. Since 1979 he has held the position of Group Coordinator and has been involved in forming new groups and societies in the North Jersey Section. He has served as Member-at-Large since 1981.

For his undergraduate studies he attended Drexel University in Philadelphia, Pa. He continued his graduate studies at the New Jersey Institute of Technology in Newark. He has worked and consulted for a number of companies in the North Jersey area; Fairchild, Monsanto, Dumont Labs, Weston and Bendix. He is currently associated with T.P. Consultants.

**RICHARD T. AIKEN — Member-At-Large**

Richard T. Aiken received a BS, MS and PhD in Electrical Engineering from Carnegie-Mellon University. He has worked for Bell Laboratories, American Bell International, and the AT&T General Departments. Currently he is District Manager in the Processor Systems Center of AT&T Information Systems planning applications for processors.

Dr. Aiken has served as Executive Committee member for the joint Computer/Communications Societies Chapter in the North Jersey Section and is now Chapter Chairman. He is a Senior Member of the IEEE and a member of ACM.

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### JOHN BAKA — Member-At-Large

John Baka is a Senior Engineer at Jersey Central Power and Light Company in Morristown, New Jersey. He is assigned to the Planning Department and is responsible for the Distribution Planning and Project Management Activities for the Northern Area.

John has served as Secretary, Program Chairman, Vice Chairman and Chairman for the Power Engineering Society of the North Jersey Section IEEE. He was also active in administering review courses for preparation for the Engineer in Training and Professional Engineering Exams and a seminar on distribution systems transients.

He serves his community of Hanover Township as a member of both the Planning Board and Environmental Commission. He is also Treasurer of St. Gregory's Episcopal Church in Parsippany-Troy Hills Township and serves as a Panel Manager on the Planning and Allocations Division of the United Way of Morris County.

John graduated from Newark College of Engineering with a BS in Electrical Engineering. He received an MBA from Wright State University in Dayton, Ohio.

### FRANK KUHL — Member-At-Large

Dr. Frank Kuhl is a senior member of IEEE and has been the chairman of the North Jersey Section of the IEEE Control Systems Society since 1982. He is the author of numerous technical publications and is a licensed professional engineer.

Dr. Kuhl received the BS and MS degrees from Columbia University in 1957 and 1958, respectively, and the Dr Eng Degree from Yale University, in 1963.

His primary interest is in pattern recognition in the areas of polarized, radar-backscatter classification of arbitrary targets in free space and, also, image processing of alphanumeric characters and raster-scanned pictures. He has done this work mostly at Raytheon Corp., Bedford, Mass. (1963-67) and Union College, Schenectady, N.Y. (1968-1973). He has also worked at Singer-Kearfott Co., Wayne, N.J. (1974-1977) and ITT, Nutley, N.J. (1977-1978) where he created and simulated Kalman Filters for TACAN and other navigational aids. He has worked at the U.S. Army Armament Research and Development Center, Dover, N.J. since 1978 where he is leading projects in tactical imagery recognition and target-trajectory estimation.

### HOWARD H. LEACH, JR. - Member-At-Large

Howard H. Leach, Jr., currently serving as a Member-at-Large, is a Senior Member of the IEEE. He has been on the Computer/Communications Chapter executive committee for the last four years, one as chairman and two as vice chairman. Mr. Leach holds a BSEE degree from RPI, a MSEE degree from Union College, Schenectady, N.Y., as well as a PE license in N.Y. Mr. Leach is an Advisory Systems Engineer with IBM in the N.J. Communications South branch office, Piscataway, N.J.

### NJ Section Ballot 1984-1985

All grades of membership, except students, should vote for one candidate for each office (except members-at-large).

#### Chairman

☐ Eugene Niemiec

☐

#### Vice Chairman 1

☐ Dick Tax

☐

#### Vice Chairman 2

☐ John Van Savage

☐

#### Treasurer

☐ Charles Coulomb

☐

#### Secretary

☐ Robert Sinusas

☐

#### Member-At-Large

(Vote for three only)

☐ Richard Aiken

☐ John Baka

☐ Frank Kuhl

☐ Howard Leach, Jr.

☐

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