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Washington, D.C., Sept. 10-12, 1984
Shoreham Dunfey Hotel

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CONTACT:
Otto W. Hoernig, Jr.
Technical Program Chairman
American Satellite Company
1801 Research Boulevard
Rockville, MD 20850

Carl D. Avers
Deputy Program Chairman
IBM Federal Systems Division
18100 Frederick Pike
Gaitersburg, MD 20878

I am interested in (check one or more):
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Please submit a 250 word abstract to Mr. Hoernig or Mr. Avers as soon as possible.

Eascon'84

The IEEE
Newsletter

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

APRIL, 1984
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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 are now handled 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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South Street Seaport Management & Costs

The April 18th meeting of the New York/ North Jersey Chapter of the Engineering Management Society will look at the "Management & Cost Aspects of Schermerhorn Rehabilitation Project." The speaker will be John A. Falls, CCE.

Mr. Falls holds a Bachelor of Science degree from City College of New York and has continued his studies at Pace University in the MBA Management Program. For the past twenty years, Mr. Falls has been involved in a wide range of construction projects. The bulk of his experience is centered around project estimating and scheduling.

Mr. Falls is employed at W. Howell Co., Inc. as Project Manager of Schermerhorn Row, a 10 million dollar restoration in the South Street Seaport District and other building modifications.

This will be the second joint meeting with the American Association of Cost Engineers and should prove to be a worthwhile experience.

Election Of Officers

The Engineering Management Society will hold their annual election of officers at this meeting. For further information on the elections call Martin Izakov (212) 307-7438.

Place: Swiss Bear Restaurant, 20 East 41st Street, NYC.
Pre-Meeting Dinner and Cocktails: 5:30 PM.
Cost: $17.50 per person - includes the cost of dinner and two cocktails, tax and gratuities.

Reservations: Al Bottini (212) 393-3719, Barry Gouray (201) 783-6870 or Harry Stokes (914) 896-6775 no later than April 16, 1984.

Computer Demo at PC Committee Meet

The April 18th meeting of the North Jersey PC Committee will feature a discussion of KAYPRO's computer line.

The guest speaker will be Ian Watson, a representative of A.B. Computers, Ridge-wood, N.J. Mr. Watson will discuss the KAYPRO computer products, uses, new developments and the consumers they satisfy. KAYPRO offers a completely bundled system with extensive software.

The talk will include a product demonstration and there will be time for questions and answers.

A brief business meeting will be held to discuss the type of meetings scheduled for the following months.

Join us and let us know what you want from your P.C. Committee.

This meeting is open to all IEEE members. Coffee and refreshments will be served.

Time: 7:30 PM, Wednesday, April 18, 1984.
Place: Auditorium, Singer-Kearfott, Plant 3 (Reception), 1250 McBride Ave., Little Falls, N.J.

Student Activities
By STELLA LAWRENCE

ANNUAL STUDENT PRIZE PAPER
CONTEST
Sunday, April 15, 1984
The 1984 Metropolitan Student Coun-
cil Prize Paper Contest, sponsored by METSAC will be held on Sunday, April 15, 1984 on the beautiful Hillwood Lakes cam-
pus of Trenton State College. Come to Stu-
dent Activities Day! Spend Sunday on 210 wooded acres in suburban Ewing Township, N.J. Listen to the papers presented in the Prize Paper Contest, attend the Ninth An-
nual Trenton Computer Festival, visit Trenton State College. Founded in 1865 the college has maintained a tradition of
excellence in higher education.
The prizes in the 1983 contest were: First Prize $150, Second Prize $100, Third Prize $50, Fourth Prize $25. The best paper in each school will also win an award of $25.
Last year there was a separate contest for freshman and sophomores. The prizes were: First Prize $150, Second Prize $100, Third Prize $50, Fourth Prize $25. This year there may only be one contest for all students.
NINTH ANNUAL TRENTON COMPUTER
FESTIVAL
April 14 & 15, 1984
The Ninth Annual Trenton Computer Festival will be held on April 14th & 15th, 1984. It is sponsored by the IEEE/ACM Princeton Section, the Department of En-
gineering Technology, Trenton State Col-
lege, and other outstanding computer soci-
eties.
It is the ORIGINAL Personal Computer Show. Last year the attendance exceeded 10,000. The conference will feature com-
puter sessions on hardware, software, home applications, robotics, and much more. There will also be user group sessions on
Apple, IBM, Radio Shack, Pet, etc. compu-
ters. There will be free courses, demonstra-
tions, technical sessions, exhibits, graphics, and much more.

Learn, participate, and enjoy.
For further information contact SIET,
Trenton State College, Hillwood Lakes,
CN650, Trenton, N.J. 08692, or (609) 771 2489.
OUTSTANDING STUDENT AWARD
Student Branch Counselors are remind-
ted to submit the name of the outstanding
student in their Branch for the Outstanding
Student Award. The May 9th meeting
of the New York Section will honor these
students and the Student Price Contest
Winners.

REGION 1 PRIZE PAPER CONTEST
The Region 1 Prize Paper Contest will be held in Boston, during ELECTRO’84, on May 15, 1984 at the Boston Sheraton in the
Prudential Center.
Last year the Region 1 Prizes were:
First Prize $2,500, Second Prize $500, Third Prize $300, Fourth Prize $100. In
addition the Region will pay the transpor-
tation expenses of the four major contest
winners.

STUDENT ACTIVITIES DAY AT
ELECTRO’84
Tuesday, May 15, 1984
This year, ELECTRO will return to
Boston bigger and better than ever with all the latest developments in computers and electronics.
The Regional Student Conference will be
ded on Tuesday, May 15, 1984. In addition
the Region 1 Prize Paper Con-
test, the conference will feature a Mini-
Student Professional Awareness Confer-
ence, a SPAC, a MSCI meeting, and many
other interesting events. It will be well
worth attending.

MISC MEETING REPORT
The Metropolitan Student Council, sponsored by METSAC, held a very inter-
esting and productive meeting at the Bram-
Schools represented included: Bramson
ORT Technical Institute; Bronx Community College; Academy of Aeronautics; City University of New York Technical College; Pratt Institute; and Technical Career Institu-
tute.

The following officers were elected:
Chairman: Edward Farkas, NYTC Technical College; Vice-Chairman: Byron Knibbs, Academy of Aeronautics; Secretary-
Treasurer: Daniel Briggs, NYTC Technical College.

Robert Babani was designated MISC Representative from the Academy of Aeronautics, as well as Byron Knibbs.
Mr. Farkas is also the Student Repre-
sentative to the Region 1 and New York Section Executive Committees.

In addition to the students present at the meeting Dr. Charles Rubenstein, METSAC Student Activities Chairman, Professor Stella Lawrence, Student Acti-
vities Chairman for the NY Section, and Professor Fernando Bogovia, former Chair-
m, NY Section Student Activities, and Counselor of the TCI Student Branch were also present.

The meeting discussed the proposed ob-
jectives of the MISC and outlined plans for
future meetings. In addition to attendance and participation in the Region 1 Student Conference at ELECTRO’84, the MISC is sponsoring Professional Awareness Con-
fresses at several Student Branches, in-
cluding a PAC at the Technical Careers
Institute in April, 1984.

COMMUNICATION SOCIETY
In Regions 1-7, up to $1,000 per Region will be awarded in scholarships to teach-
ing or research assistants pursuing a gradu-
ate degree program in communications engineering. All applicants must be mem-
bers of the COMSOC. Deadline is June 1, 1984.

Contact: Dr. Donald R. Ucci, Electronics Engineering Dept., SUNY at Stony Brook, Stony Brook, N.Y. 11794, (516)246-7134 or (616)246-6757.

Celebrate Centennial: Become a Senior
Celebrate the IEEE Centennial by be-
coming a Senior Member.
Approximately 12% of the IEEE mem-
bers are Senior Members. Many others probably have the qualifications to apply for it.
A Senior Member candidate must have been in active professional practice for at least ten years. Degrees are credited as part of this experience as follows:
- Bachelors: 3 years
- Masters: 1 year additional
- Doctorate: 1 year additional

You can get information and an appli-
cation by contacting: Don Weinstein, Ku-
lite Semiconductor, 1039 Hoyt Avenue, Ridgefield, N.J. 07657, (201) 945-3000.

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The new society’s organization was clearly patterned after the IRE. There was to be a
small Board of Directors with an Executive Committee to take care of everyday affairs,
as opposed to the AIEE pattern of a large Board and no Executive Committee; the IRE Professional Group system prevailed over the AIEE Technical Committees; and the opera-
tion was in general decentralized after the IRE pattern.
The merger resulted in the death of one periodical and the birth of another. Electrical
Engineering, the AIEE publication, had suffered from a lack of advertising revenue, and was dropped. Proceedings of the IRE was profitable from an advertising stand-
point, but its papers were too esoteric to serve the diverse membership of the new society.
In 1964 Spectrum was launched as the new “core” publication, with Proceedings remain-
ing as a high quality technical journal available by separate subscription.
In 1973 the IEEE took a step away from the traditions of both of its predecessors with the adoption of a new constitution. The IEEE gave up its role as a “learned society” con-
cerned solely with the advancement and dissemination of knowledge, and assumed the role of a “professional society” concerned with the non-technical as well as technical in-
terests of its members. The United States Activities Board, supported by an annual assess-
ment paid by U.S. residents, was created to oversee the non-technical operations of the IEEE within the United States.

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PRATT INSTITUTE
A Tenure track faculty position is available
as of September, 1984 in the School of
Engineering — Department of Electrical Engineering. A Ph.D., professional and/or teaching experience required. Interest in Undergraduate teaching essential. Salary and rank commensurate with qualifications. Excellent Benefits package. Submit resume as soon as possible but not later than April 20, 1984. AA/EOE.

Pratt Institute
EE Search Committee
c/o Personnel Office
Department EEM
200 Willoughby Avenue
Brooklyn, New York, 11205
Conference/Exposition Features Robotics Design

The New Jersey Robotics Conference and Exposition will be held on April 28, 1984 from 9 AM - 4 PM in the Center. The conference is cosponsored by the Industrial Conference of recent progress in robots and Robotics International of SME. This years theme conference is Robotics and will include several talks on both hardware and systems robotic design. The exposition will include several robot manufacturers demonstrating their robots and peripheral equipment. The all-day conference is available to SME members for $40, non-members $50 and students $20. A limited enrollment is required. The registration process of the Western Electric-Potential Labrador is scheduled for Friday, April 27, 1984. Interests interested persons should contact: Dr. Kevin J. Mc Dermott of Industrial Engineering, New Jersey Institute of Technology, Newark, N.J. 07102 345-5332.

Text of the letter follows:

This letter is in reference to the “Return Home Amendment” and the Immigration Reform and Control Act, HR1510. We support the philosophy that all foreign students, studying in the United States, be required to return home for two (2) years before being eligible to apply for immigration to the U.S. We support this for all foreign students without any waivers or exemptions. We are aware that Representative Sam Hall has submitted an amendment to revoke the exemptions and waivers in the current Bill for all foreign engineering, computer science, math and natural science students. We support Representative Hall’s amendment as we have supported the Return Home provision for all students, without exemption, for the past two years.
The support has not been any accurate or visible information to support any theories, statements or press releases depicting shortages of engineering or technical personnel in the U.S. Therefore, we do not believe there is a need to retain or import foreign students, engineers or technical personnel.

Our North Jersey Section of the Institute of Electrical and Electronic Engineers is one of the largest Sections of the IEEE with more than 5000 members. The Members of the Executive Committee of this Section endorses this letter and encourage you to work toward and support a 100% return home provision for all foreign students studying in the U.S. at the conclusion of their studies. We support this without exception and support it be made effective immediately.

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Cellular Mobile Radio Telephone

The New Jersey Computer/Communications Chapter will present an overview of recent progress in the presentations of Cellular Mobile Radio by Michael R. Sullivan on Wednesday, April 25, 1984. About The Talk:
The introduction of the cellular concept into vehicular mobile radio system has brought about a dramatic increase in the availability of this service to the public. The speaker is from Western Union which is one of the leading participants in this rapidly growing field. Because of its current activity a broad yet in depth picture of the mobile radio scene will be presented. Furthermore, Mr. Sullivan will review the history of cellular radio communications, the technology, the FCC regulatory process, the key industry participants, and outstanding issues. You will obtain an understanding of why companies are spending millions of dollars gambling that they may be able to play in the cellular market. Also, you will obtain insight as to how the forces in the market are structuring the industry, and thus future opportunities.

About The Speaker
Michael R. Sullivan, Director, Market经营 Cellular Mobile Radio Services has been with Western Union for the past four years the last two in the cellular product management group. He has also worked with the Western Union’s local distribution services and commercial satellite services. Mr. Sullivan has been active in representing Western Union at the F.C.C. Cellular Radio Interconnect Working Groups. He chaired the Financial Responsibility for Roamers subgroup. Prior to Western Union, Mr. Sullivan sold minicomputers for Data General. He holds a B.A. in Economics (1972) from the University of Virginia and an MBA (1978) from the Darden School, also of the University of Virginia.


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NJ Section Nominees
The Nominating Committee of the North Jersey Section has announced the following nominations of Section Officers for 1984-1985:
Chairman
Eugene Niemiec
Vice Chairman 1: Richard Tax
Vice Chairman 2: John Van Savage
Treasurer: Charles Coulomb
Secretary: Robert Sinusas
Member-at-Large: Howard Leach
Richard Alan John Baka
Mr. Frank Kubi has been nominated for election to the Office of Member-at-Large.

Three Members-at-Large are to be selected by the Voting Members.
Nominations in addition to those made by the Nominating Committee may be made by petition from the membership. Such nominations must be signed by not fewer than 25 voting members of the North Jersey Section, and transmitted to the Section Secretary for submission to the Executive Committee not later than April 20, 1984. The petition must certify that the person(s) nominated have agreed to serve.

Candidates nominated by petition should also forward biographical data to the “NEWSLETTER” by April 20, 1984 for inclusion in the May issue of the “NEWSLETTER.”

Up In The Air Tomorrow


MIcroE Cônggency MAnager

Excellenee career opportunity for a Microcircuit Designer/Component Design and Manufacturing professional.
A minimum of 5 years experience in the microcircuit product area is required. The candidate we seek would have product line responsibilities.
B.S.E.E. or related degree required.
This position offers high growth potential for the right individual, excellent salary and comprehensive benefits.
Opportunities also available for entrance level Engineers with some Microcircuit Component experience.
Send resume with salary history and requirements to:
MIRACLAB/FRX
Ten Microlab Road, Livingston, N.J. 07039 - Attn: R. Vincent Equal Opportunity Employer M/F

an April 25, 1984 meeting on “Vertical Transportation Looking To The Future.” The speakers will be George Strakosch of Jaro, Balon & Balles.

There will also be elections of officer for the P&I Division.
Time: 5:30 PM, Wednesday, April 25, 1984. Place: Stone & Webster (Training Room) One Ponce Plaza, 39th Floor, YVC.
Further Information: Sheldon Heitman Westhouse Co., (212) 328-7700.

Body Scanners For Clinical Use

Dr. Raymond Damadian, founder and president of Fonar Corp., a leading manu- facturer of clinical NMR scanners will speak at the Wednesday, May 2 meeting of the NY Metropolitan Chapter of the EMRS. Dr. Damadian has long been recognized as a pioneer in NMR imaging techniques, and holds the first patent granted for whole body NMR scanning.

Dr. Damadian is the author of numerous articles and books on the nuclear magnetic resonance effect in human tissue. He has served extensively on the subject and has appeared on many television programs.

Time: 7:30 PM, Wednesday, May 2, 1984. Place: Room 301, Tower Building, Rockefeller University, York Ave. at 66th St., NYC. Pre-Meeting Dinner: 6:30 PM, Tower Cate.
For Further Information: Nina Krouse (212) 561-6834; Jeff Kitz (914) 769-6700, Ext. 416.

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Excellente career opportunity for a Microwave Filter/Overliner/Component Design and Manufacturing professional.
A minimum of 5 years experience in the microwave product area is required. The candidate we seek would have product line responsibilities.
B.S.S.E. or related degree required.
This position offers high growth potential for the right individual, excellent salary and comprehensive benefits.
Opportunities also available for entrance level Engineers with some Microcircuit Component experience.
Send resume with salary history and requirements to:
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FRANK RETLOTO
Frank Retlotto has been active in the IEEE since 1967 when he joined as a student member. In 1974, he joined the full membership of the IEEE. He moved to New Jersey in 1971 where he has pursued graduate studies at Newark College of Engineering and Rutgers.
In 1974, he joined the Education Committee of the North Jersey Section. In 1976 he organized and taught the first microprocessor course at the section.
The course was repeated three times. More than 265 North Jersey and New York members attended.
In 1983 he served the North Jersey Section as a Member-at-Large, Secretary, Treasurer, Vice Chairman and as the 1982-83 Section Chairman. At present he is the chairman of METEAS which is a joint council comprised of the membership from North Jersey, New York, Long Island, Princeton. As of January 1983 METEAS had 17,931 members making METEAS the largest council in the IEEE.
In 1982 the Section awarded him a plaque in recognition of his service in educational activities and to the Executive Committee.
Working in sales since graduation he joined DeVry Technical Institute in 1980 as an instructor. He currently is serving at DeVry as the Dean of the Computer Science Dept. Frank is married and has one child.

MAX J. SCHINDLER
A Professional Engineer in New Jersey since 1965, Dr. Max J. Schindler has received three patents on magnetic measurement techniques. He received the North Jersey Section Award for innovations he introduced as Section Chairman. He has also won a RCA Engineering Award for professional excellence and support.
Dr. Schindler received a MSEE from the Technical University, Vienna, Austria in 1961. In 1963 he received a Ph.D. summa cum laude in Solid-State physics.
Most of his professional career has been spent with RCA. From 1965 to 1967 he was an Engineer in the RCA Microwave Division. Then he served 1967 to 1970 as a member of the technical staff at RCA's David Sarnoff Research Center. Returning to RCA's Microwave Division, he was Senior Engineer and Group Head Mini-TWT Development until 1975.
In 1975 he joined Electronic Design as an editor concentrating on technical software. He has been President of Prime Technology since 1979.

ALAN H. STOLPEN
Alan H. Stolpen is presently a Contract Engineer with T.P. Oneill & Associates, Inc. He has been assigned to AT&T Bell Laboratories, in Whippany, working on State-of-the-Art military power supplies.
In 1970 he received this assignment, Alan was a Senior Project Engineer with Weston Instruments. While at Weston he was responsible for the design of hand-held digital multimeters, custom digital instrumentation, and display technology research.
Prior to joining Weston, Alan spent nine years as a Project Engineer in the Computer Power Supplies and associated control circuitry for Conrac, Digital Computer Controls, Singer-Kearfott, and Burroughs. His diverse background also includes six years in quality assurance and reliability, component engineering, and applications engineering.
Alan Stolpen is the co-holder of four patents, and has earned his BSEE (1966) and MSEE (1970) from NJIT.
Alan H. Stolpen received the North Jersey Section Award in 1964, as a Student Branch Officer. In 1966 he joined the NJIT Student Engineers' Affairs Advisor, and progressed to Editor, and then Publications Chairman. He has held offices as Groups Coordinator, New Projects Administration, Secretary, Treasurer, Vice Chairman, and then Chairman of the Section.

RICHARD F. TAX
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.
Tax received the North Jersey Section Award for Leadership in 1979 and the Region 1, United States Activities Award in 1979. The award was given for his work 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.
As PACE Chairman he organized more than 40 meetings and advised several IEEE Sections on PACE activities. Richard originated and managed the Projected Session, a program to stimulate member interest by adding the PACE News column to our Section Newsletter. The column is now in its sixth 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 received the USAB Task Force for the BLS, Occupational Handbook Award.
Richard is presently a member of the USAB Marpower Task Force and a Vice Chairman of the North Jersey Section.

JOHN F. VAN SAVAGE
John F. Van Savage, is associated with the University of Maryland, Charles E. Resler and Electronic Command (CECOM) as a senior electronics engineer in its Center for Systems Engineering and Integration.
Mr. Van Savage was the recipient of the North Jersey Section's Meritorious Service Award in 1981, he is the President Treasurer of the North Jersey Section. He was the past chairman of the Control Systems Society and is the immediate past chairman of the New York/New Jersey Section Engineering Committee as a Member-at-Large, North Jersey Section.
He was also active in the Educational Committee and coordinated the CMOS and COB Research Centers on computer and computer engineers who worked in this state-of-the-art discipline.
Mr. Van Savage also serves on the Admissions/Advancements and Fellowships and Awards Committees of the IEEE.
He served on the IEEE Electro '79 Industry Relations Committee and was councilor representing major role in obtaining the 1/500th scale model of the Apollo Space Shuttle from Rockwell International for Electro '79.

DONALD W. WEINSTEIN
Donald Weinstein has been active in IEEE membership development since 1977 and is now chairman of the Membership Committee of the North Jersey Section. He is head of the microelectronic research department and a member of ISHM (International Society for Hybrid Microelectronics).
Mr. Weinstein is a Project Engineer at Kulite Semiconductor Products where he is responsible for the development and design of hybrid microcircuit signal conditioning circuits for military and industrial transducers. He also designs test equipment used by the production departments. He has three patents in the analog circuit field.
He received BEE and MEE degrees from New York University.

NEW FELLOWS

MELVIN I. COHEN
"For leadership in research, development and implementation of light guides for optical communication and laser sources as a tool in material processing."

Melvin 1. Cohen was born in New York City on June 25, 1939. He received the BS and MS degrees in Mechanical Engineering from MIT in 1967 and 1968, respectively, and the PhD degree in Applied Physics from Rensselaer Polytechnic Institute in 1964, where he was the topic of his PhD in the liquid arterial system.
From 1968 to 1969 he worked for Pratt & Whitney Aircraft Division, United Aircraft Corp., on exploratory design and development associated with aircraft propulsion systems. In 1964 he began studies on laser processing of materials at Bell Telephone Laboratories, Murray Hill, N.J., becoming a member of the Laser Processing Studies Group in 1968. In 1972 he became Associate Director at Western Electric's Engineering Research Center in Princeton, N.J., with responsibility for the Laser Processing and Corporate R&D programs in lasers, optics and fiber optics.
Dr. Cohen returned to Bell Labs, Murray Hill in June 1979, as Head, Crystal Growth and Glass R&D Department.
In his current position, Dr. Cohen is Director of the Interdisciplinary Laboratory, Bell Labs, Whippany.

DANIEL L. GOLDBERG
"For innovative engineering of large transport facilitations."

Daniel Goldberg, Chief Electrical Engineer of the Engineering Department of the Port Authority of New York and New Jersey obtained the Master of Science degree in Electrical Engineering from the New Jersey Institute of Technology in 1949 and 1950, respectively. He is a registered professional Engineer in both New York and New Jersey.
Mr. Goldberg has been employed by the Port Authority for thirty-four years; his first responsibilities included supervision of an engineering test and protective relaying project.
He has also been responsible for the coordination and execution of the program. Mr. Goldberg was in charge of major electrical power systems rehabilitations with the Port Authority including the Holland and Lincoln Tunnels. For fifteen years, he has directed the Port Authority's electrical activities associated with the rehabilitation of the many complex systems for airports, tunnels and bridges, marine and land terminals, and other transportation facilities such as J.F. Kennedy International Airport, Newark International Airport, LaGuardia Air-port, and the Bus Terminal. His most recent major responsibility was the development of a plan for the implementation of the design of a new distribution and traction power system for the fifty-year-old Port Authority Trans-Mudson (PATH) rapid transit system. He has recently received the Port Authority Distinguished Service Medal.

EDWARD H. NICOLLAN
Mr. Nicollan received an ME from Stevens Institute of Technology in 1961 and an MA in Physics from Columbia University in 1966.
He was the 1962-63 recipient of the Technical Staff at Bell Laboratories in Murray Hill from 1957 to 1983 where he worked in the metal-oxide-semiconductor field and co-authored the book entitled "Metal-Oxide Semiconductor Physics and Technology" published in 1982.
Since January 1983, Mr. Nicollan holds a joint appointment as Distinguished Professor of Engineering Science at the University of North Carolina at Charlotte and the North Carolina Supercomputer Center. He is presently working to establish a research and academic program in microelectronics at the University of North Carolina at Charlotte.

AARON E. ROEBEN
"For contributions to speech and speaker recognition."

Aaron E. Roeben was born in Medfield, Massachusetts in 1937 and attended public schools there. He received the BS and 5M degrees in electrical engineering from MIT in 1960 and a PhD in electrical engineering from the University of Pennsylvania in 1964.
He is a member of the technical staff in the Acoustics Research Department at A&T Bell Laboratories, Murray Hill, New Jersey. He has been affiliated with the IEEE since 1966 where his research interests have included auditory psychophysics, speech perception, and currently, speech and speaker recognizion.
Dr. Roeben has authored or co-authored several articles on his field of research. He is a member of the IEEE, the Acoustical Society of America, and is currently a member of the IEEE Speech and Signal Processing Society Administrative Committee and the ASSP Society Conference Board. He has served as Associate Editor for Speech Processing for the ASSP Transactions and is Chairman of the ASSP Society Technical Committee on Speech Processing.

J.W. SCHAEFFER
"For the invention of the command-guidance principle for ground-to-air/air intercept of an intruding aircraft/missile."

Jackson W. Schaeffer is Executive Director of the Military Systems Division at Bell Laboratories, Whippany, N.J. He is responsible for all research and development work performed by Bell Labs for the Department of Defense.
Mr. Schaeffer joined Bell Laboratories in 1964 and has been involved with the design of the M-9 electronic air-anti-aircraft director for more than twenty years. Mr. Schaeffer was involved in work on air defense systems.
He later served in management positions at the Whippany, N.J. Laboratory. In 1963, he was appointed director of the company’s Kwajalein Field Station in the Marshall Islands. He returned from Kwajalein in 1965 and was appointed director of Bell Labs’ Data Communications Laboratory in Holmdel. He was appointed Executive Director of the Data and PXE Division on March 15, 1965. In June, 1979, he was appointed Executive Director of the Business Terminals and Mobile Communication Activities. He was the 1979 recipient of the Executive Director for Corporate Education Program, and he assumed his present post in November, 1981.

STEPHEN B. WEINSTEIN
"For contributions to the theory and practice of voiceband data communications, and to IEEE publication activities."

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EDISON MEDAL
EUGENE I. GORDON

“For a singular career of invention, development, and leadership in electron devices.”

Eugene I. Gordon, a native of New York City, was born on September 14, 1906. He received the BS degree from City College of New York in 1928, and the PhD degree from M.I.T. in 1937, both in physics.

Dr. Gordon is founder and president of Lytel, Inc., Flirion Park, N.J., a new company soon to be manufacturing semi-conductor, opto electronic devices. In 1963 he retired from Bell Laboratories where he was Director of the Lightwave Devices Laboratory. He has worked in the field of light-discharge physics, microwave traveling wave tubes, gas and semiconductor, lasers, acousto-opto modulation and deflection devices, and image and display devices. He has directed the Bell Labs programs in electron beam pattern generation, integrated circuit packaging, internal device marketing and customer engineering, and technology forecasting. He has been a DoC consultant since 1976 serving in various capacities with the Advisory Group on Opto Electronics Devices. He has been a member of the Administrative Committee of the Electronic Device Society for several terms, and a founder and first chairman of the IEEE Quantum Electronics Council, which later became the IEEE Quantum Electronics and Applications Society. He was an associate editor for the Electronic Device Transactions and the Journal of Quantum Electronics which he cofounded. He was founder of the Electronic Device Letters. He has been active in IEEE award activities in various capacities for many years. Dr. Gordon is a member of Phi Beta Kappa and Sigma Xi and a Fellow of IEEE. In 1957 he received the IEEE Zorwicky Award and in 1976 was elected member of the National Academy of Engineering.

REGION 1 AWARD
NICHOLAS OSIFICHN

“For leadership in the design and development of the Telsat antenna and SeaPloy.”

Nick Osifchin is Director of Buildings and Energy Systems Laboratory at AT&T Bell Laboratories. He joined AT&T Bell Laboratories in 1961 and has had technical and management assignments in Military Systems, Transmission Systems and Buildings and Energy Systems.

He worked on missile guidance systems and tracking radars, initiated development of Printed Circuits for military electronics, initiated design of the TELSTAR ground station antenna and the SEAPLOY for burying transoceanic cables. He directed design of various microwave communications systems and initiated development of COSMOS, a computer-based MDF assign- ment system. He was responsible for the development of TOFES, an interactive computer-aided design system for planning and engineering equipment building chains: AFFIRM-3*, a sensor based facility management system; AC Reserve Systems and Power Systems Engineering.

Nick has five patents in transmission lines, printed circuits, millimeter waveguide and energy management software and has had 13 papers published. He is a graduate of Rutgers University and Stevens Institute of Technology and served as adjunct Professor at Stevens.

Mr. Osifchin is a member of the INTELEC Advisory Committee and the IEEE Energy Efficiency Committee and is on the Board of Scientific Advisers to the Governor of New Jersey. He is a senior member of the IEEE and ASME, Tau Beta Pi and Sigma Pi.

SARNOFF AWARD
ALAN D. WHITE

“For invention of the visible light helium-neon laser.”

Mr. Alan D. White is co-recipient of the Sarnoff Award along with Mr. J.D. Rigden.

Alan D. White, born July 6, 1923, in Rahway, N.J., received a BS degree from Rutgers University and a MS degree from Syracuse University, both in physics.

During World War II he served overseas with the armed forces from 1943 to 1946. After receiving his degrees he worked at Federal Telecommunications Laboratories, Nutley, N.J., on microwave gas discharge lasers. In 1963 he joined Bell Laborator- ies, Murray Hill, N.J., where he participated in the development of hollow cathode gas diodes for telephone switching applications. This work culminated in the installation and successful field trial of gas discharge switches in the First Electronic Switching System (ESS) at Morris, Illinois, in 1969.

In 1962 he and J.D. Rigden collaborated in the development of the visible light (6328 A) helium-neon gas laser, now widely used in research and industry as a compact and convenient laser light source of exceptional spectral purity and beam quality. Further work in this field led to improvements in laser efficiency and frequency stability and improved understanding of inversion mechanisms active in the helium-neon discharge.

From 1967 until his retirement in 1983, he became involved in the development of optics for experimental Picturephone equipment, microfilm and micrographic systems, the design of complex lenses for high resolution photolithography and the development of new precision alignment techniques for integrated circuit microphotography. He has been granted 18 patents and has published 32 papers. In 1976 he was elected a Fellow of the IEEE.

CENTENNIAL MEDALS
JOHN BAKA

John Baka is a Senior Engineer at Jer- sey Central Power and Light Company in Morristown, New Jersey. He is assigned to the Planning Department, 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 served as a member of the IEEE's Admissions and Advancement Committee and as an SPEL member.

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 Epis- copal Church in Parsippany-Troy Hills Township and serves as a Panel Manager on the Board of Directors of the Hanover Fire District of the Union County of Morris County.

John graduated from Newark College of Engineering with a BS in Electrical Engineering. He received a Master's Degree from Wright State University in Dayton, Ohio.

ALEX T. BROWN

Alex Brown is a Section Head in the Transmissions Equipment Design Department of the ITT Defense Systems Division in Nutley, N.J. At present, he is Project Engineer for voice processing equipment. He has been Project Engineer for the Air Traffic Control Data Link, Space Radio, Troposcatter systems, and a shipboard satellite transmitter. He has supervised and participated in the development of micro- wave systems, a ground satellite transmitter, a digital processor, low-noise front ends, Tacan ground receiver, and microwave components. He is a co-inventor of ITT's First radio predetection combining system using automatic phase control.

Mr. Brown graduated sum laude from N.C. State University with a B.E.E. and from Stevens Institute of Technology with a MS in Electrical Engineering. He is a member ofEta Kappa Nu and Phi Kappa Phi.

His IEEE activities include serving as Vice Chairman of METSAC, and Chairman, Treasurer, and Member-at-Large of the North Jersey Section. He has also served as Chapters Representative of the Commu- nication Society of IEEE, and Chairman and Treasurer of the Communication Chap- ter of the North Jersey Section.

CHARLES A. COULOMB

Charles A. Coulomb joined Jersey Cen- tral Power and Light Co. in 1963. He has held positions in facility planning, forecast- ing and project management. Presently he is Distribution Planning Manager in charge of distribution facility planning and project management. His IEEE activities include: Secretary Chairman of the Northern Area of the North Jersey Section as well as a membership on the IEEE's Admissions and Advancement Committee and serving as Electro committee member.

ANNE M. GIEDLINSKI

Anne M. Giedlinski is employed by Jer- sey Central Power & Light as Northern Area Engineer Manager. She was gradu- ated from Kean College in 1980 and received her PhD in 1986.

She began working for Jersey Central Power & Light in 1967 in their System Planning Department and was transferred to the Distri- bution Engineering Department in 1971. Miss Giedlinski was promoted to Supervisor- Area Engineering, Northern Area, in 1977, where she remained until being promoted to her present position in May, 1982.

Currently serving as Chairman for the Section, Miss Giedlinski has been active in the Power Engineering and Safety Committee of the Northern Jersey Section. She was the 1976-77 chairman of the North Jersey PES. In 1978 she was elected Member-at- Large in the Section; and since then has been elected Secretary, Treasurer, and Vice Chairman. She has also served on the Host Committee for the ELECTRO show in New York.

EUGENIE W. NIEMIEC

Eugene W. Niemiec is a graduate of Newark College of Engineering, 1961, BSME. After serving nineteen year career as Senior Member of the Technical Staff with the Microwave Advanced Development Department of ITT Defense Communications, Mr. Niemiec joined Memricom Industries Inc., of West Caldw- well N.J., as their Technical Director in June, 1979. In August, 1981, he was ap- pointed Executive Vice President/Techni- cal Director.

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

KENNETH J. OXEL

A graduate of Newark College of Engi- neering where he received both his under- graduate and graduate degrees, Kenneth J. Oxel is Distribution Engineering & Op- erations Director for Jersey Central Power and Light Company in Morristown, New Jersey.

His engineering career in the electric utili- ty industry spans System Planning, Division Operations, Transmission Engineering and Electric Distribution responsibilities.

Active in IEEE for many years, he has advanced through the Executive De- partments of both the Power Engineering Society Chapter and the North Jersey Section. Mr. Oxel was elected Chairman of the North Jersey Section IEEE Service Committee, and served as Chairman of the North Jersey Section. Other IEEE service includes ELECTRO, METSAC, and the Admissions and Advan- cement Committee.

A Senior Member of IEEE, Mr. Oxel is also a Member of the American Society of Mechanical Engineers and the New Jersey Society of Professional Engineers.

MORRIS M. PERUGINI

Morris M. Perugini has been active in the North Jersey Section for over twenty years. During the entire period he has been associated with “The IEEE Newsletter,” the Section publication. He served in all positions through Editor. He has also been Chairman of the IEEE Registration Committee. In addition to editorial duties, Mr. Perugini has worked on the Budget, Educa- tion, and Dinner-Dance committees. On the Institute level he was a member of the Registration Committee for the New York City Convention.

Mr. Perugini received a BSEE from the Newark College of Engineering and a MBA from the City University of New York.

Prior to establishing his own firm, Gir- ard Antiques, in 1966, he worked for "Electronics" magazine and CBS Labora-