



THE INSTITUTE OF RADIO ENGINEERS

INCORPORATED

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LEHIGH 5-5100

January 19, 1961

IRE PROFESSIONAL GROUP ON RADIO FREQUENCY INTERFERENCE

Nominees for Administrative Committee membership

(Five (5) to be elected for the term 1961-1964)

INSTRUCTIONS: Vote for FIVE (5) ONLY, and return ballot to IRE Headquarters in the enclosed envelope by March 1st, 1961.

In some cases the nominations were made by petition, in others (marked by an asterisk*) they were made directly by the Nominations Committee in accordance with Section 2 of the By-laws. Brief biographical sketches of the nominees are attached. Names are listed alphabetically.

BIOGRAPHIES -- PGRFI ADMINISTRATIVE COMMITTEE CANDIDATES

JOSEPH BERLINER

Education: B.S. 1934 C.C.N.Y., M.S. 1935 C.C.N.Y.; M.E.E. 1949 N.Y.U. 1943 - St. Louis University, Specialized instruction at Army Air Force Radio Instructor's School. 1943-44 - Radar and electronics courses at Army Air Force Electronics School.

Experience:

1943 - 1947 Instructor and faculty member of the Radar and Electronics School of the Technical Training Division of the Army Air Force.

1947 - 1959 Chief of the Interference and Anti-Jamming Analysis and Control Branch at Rome Air Development Center.

1959 - 1960 Headquarters, U.S. Air Force, Pentagon, Frequency Allocation Section, working in the areas of frequency density and RF interference.

1960-Present NASA, Goddard Space Flight Center, Washington, D.C., Project Director, Active Satellite Program.

Author of many published technical reports and papers, some of which have been presented at the radio interference conferences held in Chicago and by the IRE.

Served on many committees on military RF interference and presently serves in an advisory capacity on matters of RF interference, both within and outside the Dept. of Defense.

Member of IRE and many professional groups.

SAMUEL J. BURRUANO

Education: B.S.E.E. Villanova University

Experience:

1946 - 1956 Supervisor, Radio Interference Section, Radio Corp. of America. Commissioned with U.S. Navy, Radio, Radar and Electronics Officer.

1956-Present Manager, Systems Engineering Division, Filtron Company, Inc.

From 1946 to 1952 - Development Engineer at RCA in the Aviation Equipment Group of Engineering Products Department. In 1952 he was reassigned, with the specific responsibility of organizing and heading up a design group to provide engineering laboratory and consultation services to insure the interference-free design of military electronic systems. He has held responsible positions in Project Monmouth. Prior to assuming his present position, he was a Filtron Project Director.

Author of a number of papers on radio interference.

Senior Member of IRE, member of the Professional Group on Military Electronics, and is serving or has served on numerous IRE committees.

PGRFI Biographies

JAMES H. DAVITT

Education: University of Illinois, M.S. 1939

Experience:

1940 Radio Officer, Fort Custer, During World War II, assigned to Washington, D. C., Requirements Officer.

1942 Planning Officer, ETO, USA, England.

1944 Radio Officer, ADSEC, Europe.

1946 Assigned to Office of Chief Signal Office, Washington, D. C.

1948 Assigned Project Officer, Special Weapons Project.

1952 - 1953 Commander, 101st Signal Battalion, Korea.

1954 - 1955 Senior Signal Officer, 24th Infantry, Japan and Korea.

1955 - 1957 Director, Project Monmouth, U.S. Army Signal Research Development Agency, Fort Monmouth.

1957 - 1958 Assistant Director, Surveillance Dept., Fort Monmouth

1958 - 1959 Military mission in Eastern Turkey.

1959 - Present Chief, R&D Signal Office, Army Ordnance Missile Command, Redstone Arsenal, Alabama.

Lt. Col. Davitt is a Senior Member of the IRE and formerly Deputy Chairman of the Professional Group on Military Electronics.

As Director of Project Monmouth, he was responsible for the interference studies for the U.S. Army.

ANDRE DEVOT

Education: Tufts College, Electrical Engineering, 1936

Experience:

1936 - 1955 Chief Engineer, Tobe Deutschmann Corp.; Chief of the Filter and RF Interference Division. In charge of all original interference work accomplished for the U.S. Coast Guard, U.S. Navy Bureau of Ships, and U.S. Signal Corps, in suppressing naval equipment, U.S. Army vehicular equipment, and designing interference suppression components during World War II. Consultant to the Canadian Navy on suppression of radio interference. Pioneered radio frequency measurement techniques, and instrumentation, together with the design of components for effective suppression.

1955 - Present Chief Engineer, Filtron Company, Western Division; managed Filtron radio interference systems analysis contracts on the Atlas program. Present engineering staff has radio interference cognizance of the AN/ULD-1 Electronic Reconnaissance System, Polaris Missile Program, and AN/USD Electronic Reconnaissance System, BMEWS, and many others.

CHRISTIAN I. ENGLEMAN

Education: Graduated U.S. Naval Academy with B.S. degree, and Harvard University with M.S. degree.

Experience: Radio amateur license in 1920. Commercial operator's license in 1922. In 1923 in Arctic Ocean as radio operator on Coast Guard Cutter Algonquin, which started a thirty-year career in the Armed Forces.

In the military, Capt. Engleman held many posts of executive and technical responsibility in such organization as the Office of Secretary of Defense, Navy's Bureau of Ships, and the combined task forces which conducted the atomic tests at Bikini and Eniwetok.

Since his retirement from the Navy in 1953, Capt. Engleman has been active in the field of science, engineering and management - first as a consultant and later as founder and president of Engleman and Company, Inc. He has recently become a Vice President of C-E-I-R, Inc. This followed the merger of Engleman and Co., Inc. and C-E-I-R, Inc.

He is presently Chairman of the Professional Group on Communication Systems, Treasurer of the Professional Group on Military Electronics, and Treasurer of the Washington Section of IRE.

ZIGMUND V. GROBOWSKI

BSEE, Case Institute of Technology, Electronics Officer in supervision of shore and fleet installations for USN, 1941-1945. Facilities planner and consulting engineer on commercial broadcasting and educational TV projects, 1945-1954. Section Head and Project Director for firm of Jansky and Bailey in interference evaluation and control tasks for SAGE, Atlas, Titan, Bomarc and B-70 programs, 1954 to present.

PGRFI contributions include -- Chairman, Chapter Activities Committee, 1958-1960; Chairman, Fiftieth IRE Anniversary Committee, 1959-1960; Administrative Committee Member 1958-1960; Organizer, RFI Technical Session, IRE Convention, 1958; Advisor, Second National Symposium on RFI, 1960.

Senior Member IRE.

HERBERT F. HECKER

Born January 25, 1917, graduated College of the City of New York in 1938 with degree of B.E.E. Military Services in U.S. Army Signal Corps 1946-47.

Employed at USASRD L since February 1939, initially in development of early DF and Radar Systems, then in production engineering as a field engineer on communications gear then as a supervisor in the same area. Then supervised R&D activities in power conversion equipment and electronic test equipment. In the field of RFI since 1955. Served as Deputy Director, Suppression and General Engineering Division, USASRD L from 1955 to 1957, Director of same Division from 1957 to 1959. Since 1959, Chief of Environment Analysis Branch (project Monmouth).

Member of IRE and PGRFI.

E. V. KAVANAUGH

Experience:

1943 - 1956 Senior Project Engineer, Chief of the Interference Control Unit, Interferics Section, Suppression and General Engineering Branch, Communications Department, Signal Corps Engineering Laboratories, Fort Monmouth.

1956 - Present Project Director, Filtron Company, Inc., West Coast Division, Project Engineer, assigned to ICEM Atlas Missile Project.

During his sixteen years in the RF interference field, he held such positions as Chief of Interference Control at Fort Monmouth; Project Engineer, Cole Signal Laboratories; Project Engineer, Detroit Signal Laboratory; Engineer, Camp Hood, Texas; Engineer, Signal Corps Laboratory, Fort Monmouth. At present he directs many major projects, such as UID-1 and Polaris Missile. While assigned to the Atlas Missile Project, he was directly responsible to the Project Director in charge of radio interference considerations.

His professional affiliations include service on various committees of the Research and Development Board, Tri-Service Steering Group, Department of Defense, American Standards Association, and the Society of Automotive Engineers.

CHARLES R. MILLER

Mr. Miller, who is a charter and current Chairman of the Utica Chapter of PGRFI, has received degrees from George Washington University and Suracuse University. He was recently awarded a 20-year pin for Government service.

He served five years as a Navy Electronics Technician. In 1945, he joined the Direction Finder and Countermeasures Branch of the Naval Research Laboratory. In 1953, he transferred to the Rome Air Development Center Countermeasures Laboratory where he contributed to several passive detection techniques.

In February 1957, he transferred to the Interference Branch at RADC. He has generated and directed several large-scale research and development interference analysis programs involving prediction techniques, antenna analysis, investigation of new circuit and component techniques, and data handling.

He has written papers on interference dealing with transmitter and receiver analyses which were delivered at national interference symposiums, the 1959 Chicago Interference Conference and the IRE National Conference in March 1960.

W. E. PAKALA

Mr. Pakala went to Westinghouse in 1927 after graduating from Montana State College in Electrical Engineering. He started on the Graduate Training Course and took post-graduate work at the University of Pittsburgh. His activities have included basic work on power line carrier, high frequency measurements, research and development on ignitron tube and its control, and research on radio noise from high voltage transmission lines.

W.E. PAKALA (cont'd.)

He is active in AIEE, IRE, ASA and NEMA committees on standardization of radio noise instrumentation and measurement techniques. He is present Chairman of ASA Committee on Radio-Electrical Coordination.

At present, he is Advisory Engineer and Supervisor on laboratory instrumentation and radio noise from electrical apparatus at the Westinghouse Research Laboratories.

CHARLES POLK

Education: Ph.D., Electrical Engineering, University of Pennsylvania, M.S. Physics, University of Pennsylvania, 1953. B.S., Electrical Engineering, Washington University, St. Louis, 1948. Diploma, University of Paris, (Sorbonne), 1938.

Experience: Consultant to RCA Laboratories, Princeton, N.J., since 1959. From 1957 to 1959 member of technical staff, RCA Laboratories, Sarnoff Research Center. Work was on analytical problems related to antenna systems, radio propagation, and RF shielding.

Adjunct Professor of Electrical Engineering, Drexel Institute of Technology, Philadelphia; evening graduate course in antennas and radio propagation.

September 1952 to 1957, Associate, Electrical Engineering, University of Pennsylvania; worked on Air Force sponsored projects related to antennas and radio propagation.

Author of many papers on interference given at the Armour interference conferences and published in many technical publications, and holder of several U.S. patents.

Professor of Electrical Engineering and Chairman of E.E. Department, University of Rhode Island.

E.E. RADFORD

Education: Syracuse University, College of Electrical Engineering, E.E. Graduate of T.R.E. Radar School, Great Malvern, England. Graduate of Fort Monmouth Radar School.

Experience: Instructor at Boca Raton Radar School, 1946; Mathematics Instructor, G.E. Training Program, Interference Engineer, General Electric Co., 1945 to present.

Mr. Radford has been Head of the Interference Department for the Heavy Military Electronics Division of General Electric Company, Syracuse, since 1954.

Mr. Radford is well known for his work in interference and has presented many papers at the Armour Conferences, U.S. Army Signal Corps, RADC-USAF, U.S. Naval Air Station, etc. Author of many publications on the subject of radio interference.

Mr. Radford has been responsible for interference reduction and free space measurement work on many defense projects.

HENRY RANDALL

Education: B.A., Amherst College, 1929; B.S. Mass. Institute of Technology, 1931; M.S., Mass. Institute of Technology, 1932.

Experience:

1933-43 & 1946-48 Various Phases of the X-ray business with the Picker X-Ray Corp. in New York, Washington, Cleveland and Boston.

1943 Army Medical Corps.

1943 - 1946 Lt. j.g. and Lt., U.S. Navy Reserve active duty.

1947 - 1948 Project Engineer, electronic test equipment, Bureau of Ships.

1948 - Present In the Office of the Secretary of Defense, successively in RDB, Applications Engineering, Research and Engineering.

Senior Member IRE 1954. PGMIL National Committee 1957-60. Treasurer, PGMIL, 1957-58. Chairman Nominating Committee, Washington PGMIL Chapter, 1958. Auditor, Washington Section, 1958. National Chairman PGMIL 1959-60. Associate Member AIEE.

R. M. SHOWERS

Ph.D. 1950 from University of Pennsylvania. Professor of Electrical Engineering and Section Head of Communications Research in the Moore School, University of Pennsylvania. Has supervised research in areas of microwave noise generators and measurements, systems engineering studies, physical characteristics of solid state materials, radio interference and magnetron research. Was Chief U.S. delegate to CISPR Conference at the Hague in 1958. Member of committees of ASA, AIEE and IRE. Is presently Vice-Chairman of the Philadelphia Section, IRE, Chairman, Professional Group Coordinating Committee, and Chairman of the 1961 CISPR Conference Committee.

SAMUEL SKOLNIK

Education: New York University and Brooklyn Polytech.

Experience:

For the past fourteen years actively engaged in, and specialized in, the field of radio frequency interference for the U.S. Air Force.

Chief of the Radio Interference Group of Wright Field. Acts as consultant to the Chief of ARL, Chief of Development and Design Branch, and other laboratories of the Directorate of Laboratories and other Commands such as Air Technical Intelligence, on special problems relating to radio interference. Acts as special consultant for the Laboratory on all matters of radio interference and associated fields.

SAMUEL SKOLNIK (Continued)

Received numerous commendations from Staff Officers and industry and was presented Bronze Star Medal award by General Twinning for technical ability.

Senior Member of IRE and is, or has been, a member of numerous committees working on interference problems.

WILLIAM B. WRIGLEY

Experience:

1940 - Present	U.S. Army Reserve and Georgia Air National Guard, now Colonel.
1940 - 1941	Radio Corporation of America, Development Engineer
1941 - 1945	U.S. Army, Ordnance and Anti-Aircraft Officer
1945 - 1946	Radio Corporation of America, Development Engineer
1946 - 1947	U.S. Homes, Inc., Plant Superintendent and Chief Engineer
1947 - 1948	R.I. Sarbacher and Associates, Development Engineer
1948 - 1951	A.F. Cambridge Research Center, Head of EM Propagation Group
1951 - Present	Georgia Institute of Technology, Research Engineer, Head, Communications Branch.

Experience Summary:

At RCA, was development engineer for bc transmitters RF heating equipment, and mobile receivers. At R.I. Sarbacher and Associates, was development engineer for countermeasures indicator and surveying radar (AN/PPN-9). Korean service as Lt. Col. electronics officer at AFRC. At Georgia Tech, research engineer project director and supervisor on programs concerning radar receiver techniques, under-water sound generation and analysis, radio-frequency interference study and reduction techniques, electromagnetic propagation studies and several other projects. Head of Communications Branch since its formation.

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