

Contributors



Lennart Gustafsson was born in Göteborg, Sweden, in 1940. He received the civilingenjör (M.Sc.) degree in electrical engineering from Chalmers University of Technology, Gothenburg, Sweden, in 1966.

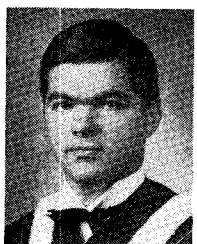
Since 1966 he has been working at Chalmers University of Technology, first at the Institute for Theoretical Electricity, and since 1971 at the Division of Network Theory, where he is currently engaged in research on fundamental and subharmonic injection locking of

microwave oscillators.



G. H. Bertil Hansson was born in Vänersborg, Sweden, on December 12, 1945. He received the M.S. degree in electrical engineering in 1970 from Chalmers University of Technology, Gothenburg, Sweden.

Since 1970 he has been a Member of the research and teaching staff of the Research Laboratory of Electronics. His research interests are in the area of microwave semiconductor devices.



Terence George Hazel was born in Winnipeg, Man., Canada, on November 20, 1948. He received the B.Sc. degree in electrical engineering from the University of Manitoba, Winnipeg, Man., Canada, in 1970.

In 1970 he entered the Faculty of Graduate Studies, supported by a postgraduate scholarship of the National Research Council of Canada. At present he is on a European travel-study program.



Reinhard H. Knerr (M'71) was born in Pirmasens, Germany, on February 18, 1939. He received the undergraduate degree from the Technische Hochschule, Aachen, Germany, in 1960, the Dipl.Ing. degree from the National College of Electrical Engineering and Hydraulics, Toulouse, France, in 1962, and the Ph.D. degree from Lehigh University, Bethlehem, Pa., in 1968.

He was a Graduate Assistant, NATO-Scholar, and successively full-time Instructor

in the Department of Electrical Engineering, Lehigh University, receiving the doctoral degree for his work on wave propagation in nonuniformly biased microwave ferrites. From 1963 to 1965 he was concerned with the problem of plasma oscillations in solids. He is presently a member of the Solid State Microwave Device Department of Bell Telephone Laboratories, Inc., Allentown, Pa.



Tove Larsen was born in Copenhagen, Denmark, on April 23, 1930. She received the M.Sc. degree in electrical engineering in 1955 and the Ph.D. degree in 1963, both from the Technical University of Denmark, Lyngby, Denmark.

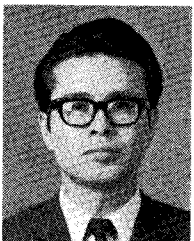
From 1955 to 1958 she was with the Microwave Laboratory of the Danish Academy of Technical Sciences, Copenhagen. Since 1958 she has been with the Laboratory of Electromagnetic Theory at the Technical University of Denmark, except for a three-month period in 1964 when she worked at the University of Colorado, Boulder. She is spending the academic year 1971-1972 as a Research Visitor at Oak Ridge National Laboratory, Tenn.

Dr. Larsen is a member of the Society of Danish Engineers.



K. Ingemar Lundström (S'66-M'68) was born in Skellefteå, Sweden, on May 9, 1941. He received the M.S. degree in electrical engineering in 1967 and the Ph.D. degree in 1970 from Chalmers University of Technology, Gothenburg, Sweden.

Since 1967 he has been a Member of the research and teaching staff of the Research Laboratory of Electronics, where in 1969, he was appointed Assistant Professor. His research interests are primarily in the area of semiconductor device physics.



Minoru Maeda (M'70) was born in Kanagawa, Japan, on December 22, 1942. He received the B.S. and M.S. degrees in electrical engineering from Yokohama National University, Yokohama, Japan, in 1965 and 1967, respectively.

He joined Central Research Laboratory, Hitachi, Ltd., Tokyo, Japan, in 1967 and has since been engaged in research and development on active antennas with tunnel-diode loading and millimeter-wave parametric amplifiers. He is presently working on microwave integrated circuits, especially on lumped-element circuits.

Mr. Maeda is a member of the Institute of Electronics and Communication Engineers of Japan.

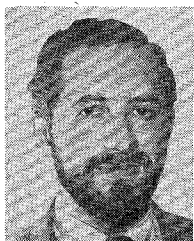


Harrison E. Rowe (S'49-A'53-M'58-SM'65-F'71) was born in Chicago, Ill., on January 29, 1927. He received the B.S., M.S., and Sc.D. degrees from Massachusetts Institute of Technology, Cambridge, in 1948, 1950, and 1952, respectively.

He joined Bell Telephone Laboratories, Inc., Holmdel, N. J., in 1952. His fields of interest have included parametric amplifier theory, noise and communication theory, propagation in random media, and related

problems in waveguide, radio, and optical systems.

Dr. Rowe is a member of Sigma Xi, Tau Beta Pi, Eta Kappa Nu, and Commission 6 of the International Scientific Radio Union.



Alvin Wexler (S'57-M'66) was born in Winnipeg, Man., Canada, on July 14, 1935. He received the B.Sc. degree in electrical engineering from the University of Manitoba, Winnipeg, Canada, in 1958. He attended Imperial College, London, England, on an Athlone Fellowship and a Metropolitan Vickers Bursary, and received the Diploma of Imperial College, London, England, and the Ph.D. degree from the University of London, London, England.

His research concerned propagation in waveguides loaded with resistive films and ferrites. While in the United Kingdom he was an Assistant Editor of Science Abstracts, and later worked for International Computers and Tabulators, Ltd., London, as a Technical Consultant to industry. He returned to the University of Manitoba in August 1966, as a Ford Foundation Fellow, and is now an Associate Professor there. He is President of Tasc (Computing Services).

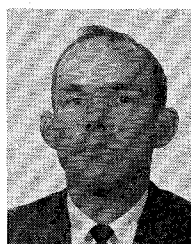
Dr. Wexler is a member of the Association of Professional Engineers of the Province of Manitoba, the G-MTT Technical Committee on Computer-Aided Design of Microwave Circuits, the Editorial Review Board, and the Administrative Committee of the Microwave Theory and Techniques Group.



Joseph F. White (S'60-M'61) was born in Cleveland, Ohio, on June 5, 1938. He received the B.S.E.E. degree from Case Institute of Technology, Cleveland, Ohio, in 1960, the M.S.E.E. degree from Northeastern University, Boston, Mass., in 1965, and the Ph.D. degree in electrical engineering from Rensselaer Polytechnic Institute, Troy, N. Y., in 1968.

After graduation he joined the MITRE Corporation, Bedford, Mass., and was responsible for the design of microwave components and their integration into a radar system. In 1961 he joined Microwave Associates, Burlington, Mass., to perform applied research in the use of semiconductor diodes for high-power microwave control circuits including duplexers, antenna switches, and phase shifters. In 1965 he was appointed Research Assistant in the Electrophysics Department of Rensselaer Polytechnic Institute to continue graduate study and to perform research in the application of semiconductor bulk properties for microwave control. During this time, he also served as a Consultant to Microwave Associates. He is presently the Technical Director of Semiconductor Operations at Microwave Associates, Inc.

Dr. White is a member of Eta Kappa Nu and Sigma Xi.



D. T. Young (S'56-M'60) received the B.S., M.E.E., and Ph.D. degrees from the University of Oklahoma, Norman, in 1956, 1960, and 1966, respectively.

He was with Bell Telephone Laboratories from 1960 to 1965 and was Assistant Professor at Kansas State University from 1966 to 1967. He returned to Bell Telephone Laboratories from 1967 to 1971. Initially he worked on mode conversion problems in multimode waveguide and a solid-state repeater for a waveguide transmission system. Later he worked on optical transmission systems.

Dr. Young is a member of Tau Beta Pi, Eta Kappa Nu, and Sigma Xi.