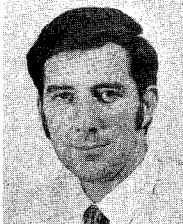


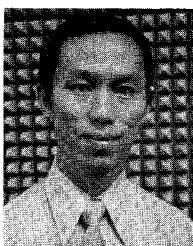
## Contributors



**Alan S. Burgess** (S'69) was born in Adelaide, South Australia, on April 11, 1944. He received the B.Sc. and B.E. degrees from the University of Adelaide, Adelaide, South Australia, in 1965 and 1967, respectively.

In 1967 he joined the Weapons Research Establishment, Salisbury, South Australia, and worked in the fields of signal processing for multielement receiving arrays and underwater acoustics. Since 1969 he has been engaged in Ph.D. studies at the University of Adelaide, working in the field of acoustic surface waves.

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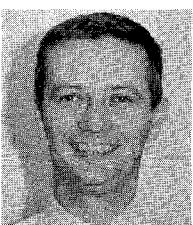


**Chente Chao** (S'71) was born in Shanghai, China, on January 19, 1937. He received the B.S. and M.S. degrees in electrical engineering from the Georgia Institute of Technology, Atlanta, in 1966 and 1968, respectively.

From 1966 to 1968 he worked for Western Electric Company, Atlanta, Ga., where he was an Engineer engaged in broad-band and power equipment engineering for telephone communication systems. In 1969 he joined the Electron Physics Laboratory, Department of Electrical and Computer Engineering, University of Michigan, Ann Arbor, as a Research Assistant, where he has been involved in research on the operating characteristics of IMPATT diode oscillators. Presently, he is working toward the Ph.D. degree on the noise properties of IMPATT devices. Since 1972 he has also served as a Laboratory Instructor in physical electronics.

Mr. Chao is a member of Eta Kappa Nu and Sigma Xi.

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**Peter H. Cole** was born in Mayfield, New South Wales, Australia, on December 20, 1936. He received the B.Sc., B.E., and Ph.D. degrees from the University of Sydney, Sydney, Australia, in 1957, 1959, and 1964, respectively.

From 1964 to 1967 he was with the Center for Materials Science and Engineering, Massachusetts Institute of Technology, Cambridge, working on nonlinear effects in ferro- and antiferromagnetic resonance. In October 1967 he was appointed Senior Lecturer at the University of Adelaide, South Australia, where his research interests have been in the communication applications of acoustic surface waves. In May 1972 he

assumed a similar position at the University of Sydney, and is currently developing interests in computer-aided circuit design and remote interrogation systems.

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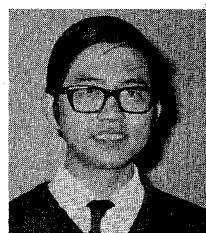


**George I. Haddad** (S'57-M'61-SM'66-F'72) was born in Aindara, Lebanon, on April 7, 1935. He received the B.S.E., M.S.E., and Ph.D. degrees in electrical engineering in 1956, 1958, and 1963, respectively, from the University of Michigan, Ann Arbor.

From 1957 to 1958 he was associated with the Engineering Research Institute of the University of Michigan, where he was engaged in research on electromagnetic accelerators. In 1958 he joined the Electron Physics Laboratory, where he has been engaged in research on masers, parametric amplifiers, detectors, electron-beam devices, and microwave solid-state devices. He held a University of Michigan Research Institute Fellowship for the academic year of 1958-1959 and a sponsored research fellowship for the spring semester of 1959-1960. He served successively as Instructor, Assistant Professor, and Associate Professor in the Electrical Engineering Department from 1960 to 1969. He is presently a Professor and Director of the Electron Physics Laboratory.

Dr. Haddad received the 1970 Curtis W. McGraw Research Award of the American Society for Engineering Education for outstanding achievements by an engineering teacher. He is a member of Eta Kappa Nu, Sigma Xi, Phi Kappa Phi, the American Physical Society, and the American Society for Engineering Education.

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**Khee K. Pang** (S'67-M'69) was born in Gemas, Malaysia, on September 16, 1941. He received the B.E. degree from the University of Melbourne, Vic., Australia, in 1964, and the Ph.D. degree from Monash University, Clayton, Vic., Australia, in 1968.

From 1969 to 1970 he was a Lecturer in the Department of Electrical Engineering and Computer Sciences, University of California, Berkeley. He joined the Department of Electrical Engineering, Monash University, in 1970, where he is presently a Senior Lecturer. His industrial experiences include P.M.G. Research Laboratories, where he worked as a Research Engineer in 1968 and later as a Consultant, and Bell Laboratories, Holmdel, N. J., where he was a member of the technical staff in 1969.