

## BIOGRAPHIES



SUDHIR JAIN is a Geophysical Consultant based in Calgary, Alberta. He has specialized in the development and use of advanced data processing and interpretation techniques in seismic and potential field methods. Sudhir Jain received his B.Sc. (Hons.) and M. Tech. in exploration geophysics from the Indian Institute of Technology, Kharagpur, India in 1958 and 1960 respectively. After one year on a gravity-magnetic field party, he joined the University of Liverpool in England, where he completed his Ph.D. in geophysics in 1964. Papers resulting from his thesis were presented to the European Association of Exploration Geophysicists and he was awarded the Van Weelden Award in 1966. Dr. Jain has published papers on seismic, electrical and potential field methods in *Geophysics*, *Geophysical Prospecting*, *Journal of the Canadian Society of Exploration Geophysicists*, *Oil and Gas Journal*, etc., and has presented numerous papers in SEG and CSEG meetings since 1972. He was awarded the CSEG Meritorious Service Award in 1980. He is a member of SEG, CSEG and APEGGA.



JAMES H. JUSTICE began his geophysics career when he was accepted into the geophysical trainee program of Shell Development Company in 1962. Since then he has been employed by several major oil companies, was a research fellow at Woods Hole Oceanographic Institution, a Professor at the University of Tulsa, Presidential Fellow at the Colorado School of Mines, and has held manager and Vice President of Research positions. Most recently he was the first appointee to the endowed Chair in Exploration Geophysics at The University of Calgary and is the founder and director of Justice Associates, Inc., an R&D, product development and marketing firm.

Dr. Justice is the author of numerous technical reports and publications, and has co-authored or edited several books. His current research interests include interactive computing and pattern recognition, multidimensional signal processing and inversion.



DAN HAMPSON is currently vice-president of research and seismic programming at Veritas Software Ltd. He has been with the Veritas organization since 1976 and has been involved primarily with seismic research. His background also involves working as an applications geophysicist with Phillips Petroleum in Houston.

Dan received his B.Sc. in physics from Loyola College in Montreal in 1971, and his M.Sc. in theoretical physics from McMaster University, Hamilton in 1973. In 1981, he received the Best Paper Award for a paper delivered at the CSEG convention. Dan is a member of the CSEG, SEG, EAEG, and APEGGA, is a past editor of the CSEG Journal, and is current second vice-president of the CSEG.



KEN DUCKWORTH graduated from the University of Leeds with a B.Sc. in Physics (1960) and a Ph.D. in Applied Geophysics (1964). In 1964, he joined the Darwin Uranium Group of the Australian Bureau of Mineral Resources. In the four years spent with that group, he developed research interests in electromagnetic and radiometric exploration techniques.

In 1968, he joined the faculty of The University of Calgary, where he now holds the position of Associate Professor of Geophysics. Current research interests lie in the development of new electromagnetic exploration techniques with special emphasis on deep exploration

for metallic minerals (*i.e.*, in the depth range 200 to 800 m).

Professional associations: APEGGA, SEG, CSEG, ASEG, EAEG and CIMM.



F.N. TROFIMENKOFF (Professor, Department of Electrical Engineering, The University of Calgary, Calgary, Alberta T2N 1N4, (403-220-5812), was born in Veregin, Saskatchewan, Canada on August 10, 1934. He received the B.E. degree in engineering physics and the M.Sc. degree in physics, both from the University of Saskatchewan at Saskatoon, in 1957 and 1959 respectively. He was awarded an Athlone Fellowship in 1959 and completed the Ph.D. program in electrical engineering (semiconductor device physics) at the Imperial College of Science and Technology, London, England in 1962.

From 1957 to 1959 he worked on instrumentation for accurate humidity measurement in the Division of Building Research of the National Research Council of Canada, and from 1962 to 1966 was an Assistant Professor of Electrical Engineering at the University of Saskatchewan. In 1966 he moved to Alberta, to the Electrical Engineering Department at The University of Calgary. His current interests are in the circuits and device area and in instrumentation related to the petroleum industry.

Dr. Trofimenkoff is a member of the Association of Professional Engineers, Geologists and Geophysicists of Alberta, the Engineering Institute of Canada, the Canadian Association of Physicists, and the American Society for Engineering Education.



RONALD H. JOHNSTON was born in Drumheller, Alberta, Canada, on May 11, 1939. He received the B.Sc. degree from the University of Alberta in Edmonton, and the Ph.D. degree from the University of London in London, England, in 1961 and 1967 respectively.

He joined Canadian General Electric in 1961, working chiefly on television transmitting antennas. In 1962 he went to Imperial College, England, on an Athlone fellowship to work on high-frequency transistor circuits. This work continued at Queen's University, Belfast, Northern Ireland, where he went in 1964. In 1967 he joined the R & D Labs, Northern Electric (now known as BNR) in Ottawa, Ontario, Canada where he worked on the development of microwave repeaters. In January 1970 he joined the Department of Electrical Engineering, at The University of Calgary in Alberta, where he is an Associate Professor. His research interests now include: microwave moisture measurement, subsurface EM propa-

gation, and high-frequency semiconductor circuits.

Dr. Johnston is a Registered Professional Engineer in the Province of Alberta.



J.W. HASLETT was born in Saskatchewan, Canada on September 27, 1944. He received the B.Sc. degree in electrical engineering from the University of Saskatchewan at Saskatoon in 1966, and the M.Sc. and Ph.D. degrees from The University of Calgary at Calgary, Alberta in 1968 and 1970 respectively.

Dr. Haslett subsequently joined the Department of Electrical Engineering at The University of Calgary, where he is currently Professor and Head of the Department. From 1970 to 1975 his main research interest was in the area of noise mechanisms in solid-state devices. Since 1975 his interests have shifted to low-light level CCD images for spacecraft applications, high-frequency RC active filters and specialized instrumentation systems related to drill-stem testing of oil and gas wells. He is also active in analog and digital integrated circuit design techniques for these applications.



ROBERT R. STEWART graduated from the University of Toronto in 1978 with B.Sc. in physics and mathematics. He received a Ph.D. in geophysics from the Massachusetts Institute of Technology in 1983.

In 1979-1980 he was employed part-time with the Chevron Oil Field Research Company in La Habra, California where he conducted ultrasonic investigations of rock properties. In 1981-82 he worked with the Arco Exploration and Production Research Center in Dallas, Texas where he carried on VSP analysis, software design and field work.

At MIT, he was also involved in earthquake field studies in Peru, the Soviet Union and New England. He was a postdoctoral research associate in 1983 at MIT, editing a book on *Advanced Concepts in Vertical Seismic Profiling*.

He was employed by Chevron Geosciences Company, Calgary as a processing geophysicist in 1983-85, since then he has been a Senior Research Geophysicist with Veritas Software Ltd.

Dr. Stewart is the current editor of the Journal of the CSEG, and a lecturer for the SEG Continuing Education Program.



S.K.L. CHIU: research geophysicist, Alberta Research Council. Address: 6815 - 8th Street N.E., Calgary, Alberta, Canada. Academic History: B.S. (1980) Geophysics, University of Saskatchewan; M.S. (1982) and Ph.D. (1985) Geophysics, University of Alberta. Area of professional interest and other information: seismic tomography, ray-tracing and

inverse theory. Society Affiliation: SEG.

DANIEL H. KRENTZ earned a B.Sc. in geological engineering in 1983 from Queen's University. He is currently employed as an exploration geophysicist with Canterra Energy Ltd., Calgary, and is working part-time toward an M.Sc. degree in applied geophysics.

DENNIS V. WOODS received a B.Sc. in applied geology in 1973 and an M.Sc. in applied geophysics in 1975 from Queen's University. He then attended the Australian National University where he obtained a Ph.D. in 1979 for his research in solid earth geophysics. He returned to Queen's University in 1979 as an assistant professor, teaching applied geophysics in the Department of Geological Sciences and carrying out an active research program in a wide variety of applied and solid earth geophysics. In 1986 he left academia to take up a career in the geophysical exploration industry, joining Inverse Theory and Applications (ITA) in Vancouver.

Dr. Woods is a professional engineer and a member and contributor to numerous geophysical and geological societies.