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Underlining indicates person with whom contact will be made regarding Project.

Research Personnel

Robert H. Brune attended the University of Missouri at Rolla from 1966 to 1969, receiving a B.S. in geophysics. During the summer of 1968 he was employed by Pan American Petroleum Corp. working in reflection seismic processing. He was employed by Geophysical Services Inc. for 3 years in land and marine seismic exploration and in processing and interpreting marine gravity and magnetic data. Presently he is a graduate student in geophysics at Stanford University. He is a member of SEG, EAEG, and AGU.

John Parker Burg is presently a research associate in the Geophysics Department at Stanford, where he is working on his Ph.D. Past education was a B.S. in physics, B.A. in mathematics, 1953, University of Texas and M.S. in physics, 1960, M.I.T. Burg joined Texas Instruments Inc. in June 1956, first worked on infrared systems and later on an AFTAC contract for the detection of underground nuclear blasts. His development of processing and analysis techniques for seismometer array data has been the basis of many present day digital oil exploration techniques. He holds the patent on the predictive deconvolution process used by the exploration industry and is also the inventor of Maximum Entropy Spectral Analysis. Before returning to school, he was a senior research geophysicist at Texas Instruments. He is now president of Time and Space Processing, Inc., and is involved in developing shipboard systems for on-line deconvolution of reflection profile data. Burg is a member of the SEG (best technical presentation award in 1967) and a senior member of the IEEE.

Jon F. Claerbout received his education at M.I.T. (B.S. physics, 1960, M.S. geophysics, 1963, Ph.D. geophysics, 1967). He worked for Teledyne, Inc. in 1963 and studied in Uppsala, Sweden in 1964. He joined the geophysical faculty at Stanford University in 1967. From 1967 to 1973, he was a consultant to the Chevron Oil Field Research Company. He is an active member of the Society of Exploration Geophysics, receiving the Best Presentation Award for a paper, "Extrapolation of Wave Fields", presented at the 1972 international SEG meeting and receiving the Society's Medal Award in 1973 "in recognition of his outstanding and original pioneering work in seismic wave analysis". During the year 1972-73 he was a visiting research geologist at Princeton University and a visiting lecturer at Sydney University. Presently he is an associate professor of geophysics at Stanford University.

Stephen M. Doherty received his B.A. degree in physics from the University of Colorado in 1970. He is now attending Stanford University, where he is working on his Ph.D. in geophysics. During the summer of 1970 he worked for Pennzoil (Shreveport division) interpreting electric logs. In the summer of 1972 he was employed by Chevron Oil Field Research Company investigating processing schemes for 3 component seismic data. During 1973 he participated in the development of computer programs for a real time processing system for single channel sparker data. He is a member of SEG.

W. Scott Dunbar received a B.S. degree in geophysics and geology from the University of British Columbia in 1972 and a M.S. degree in geophysics from the University of Toronto in 1973. During the summers of 1968-1972 he worked for various companies engaged in mineral and oil exploration and arctic perma-frost studies. Presently, he is a graduate student in the Department of Geophysics at Stanford University. His research interests lie in the fields of earth mechanics and adaptive data processing techniques. He is a member of SEG, AGU and SSA.

Raul Estevez, native of Venezuela, received a degree in physics (Licenciado) from Friendship University of Moscow in 1965. From 1965 to 1967, he was teaching physics at the Central University of Venezuela, and lately, from 1967 to 1971, at the University of Los Andes, in Merida, Venezuela. Presently, he is attending Stanford University as a graduate student, where he is working toward a Ph.D. in geophysics. He is a member of SEG.

Donald W. Funkhouser received his B.S. degree in physics and his M.S. degree in geophysics from Stanford University in 1972. He is presently employed at the Western Geophysical Company in Houston, Texas.

Theodore R. Madden entered M.I.T. in 1942, but left to join the Marine Corps. In 1949 he graduated from M.I.T. with a B.S. in physics and entered the graduate school at M.I.T. in the Department of Geology and Geophysics. He is presently a geophysics professor at M.I.T.

Don C. Riley received a B.S. degree in geophysics from the University of Tulsa in 1970. During the summers of 1969-70 he was employed by Texaco, Inc. interpreting sparker profiles. In 1973 he received an M.S. degree in geophysics from Stanford University where he presently is continuing work toward a Ph.D. During the summer of 1972 he was employed by the U. S. Geological Survey developing a computer processing system for sparker data and assisted on a cruise gathering data in the Chukchi Sea. For six months in 1973, Riley worked for Chevron Oil Field Research Company in seismic processing research. He is a member of the Bay Area Geophysical Society, presently serving as Vice President, Sigma Pi Sigma, and the SEG.

Philip S. Schultz received B.S. and M.S. degrees in physics from DePaul University in 1970 and 1971. His thesis research there resulted in co-authorship of two papers on nuclear magnetic resonance spectroscopy. He received an M.S. in geophysics from Stanford University in 1973 where he is currently a Ph.D. candidate interested in the measurement of in situ energy dissipation from reflection seismograms. He is a member of the SEG.