

RESEARCH PERSONNEL

Heloise Blossom received her B.A. in geology-math in 1975 from Bowdoin College, Brunswick, Maine. She then worked a year for Texaco's Southeast Division in Houston as a seismic data processor, with some interpretation duties. In fall, 1976, she entered Stanford to study in the Exploration Geophysics Program. For the summer of 1977, she returned to Texaco in Houston and did the research for her M.S. thesis on "The Seismic Waveshape Response of a Carbonate Gas Reservoir, Gulf Coast, U.S." Her M.S. in exploration geophysics was finished in December, 1977. Interested in the interpretation of seismic data, she helped teach Stanford's introductory reflection seismology course, "Geologic Interpretation of Reflection Seismograms," in the winter quarter, 1978. During and since then she has been working on the migration of large datasets, deep crustal seismic interpretation, and general real data seismic processing and enhancement.

David Brown received his B.S. in physics and M.S. in geophysics from Stanford in 1977. When not visiting the SEP, he is a graduate student in applied mathematics at Caltech in Pasadena. He is a member of SEG.

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 United Electrodynamics (now Teledyne, Inc.) in 1963 and studied in Uppsala, Sweden, in 1964. He joined the geophysics faculty at Stanford University in 1967. From 1967 to 1974, 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. In 1977, he was elected a Fellow of the American Geophysical Union. Presently, he is professor of geophysics at Stanford University and director of the Stanford Exploration Project.

Robert W. Clayton received a B.A. degree in engineering science from the University of Toronto in 1973, and an M.S. degree from the University of British Columbia in 1975. His M.S. thesis was on the deconvolution of suites of teleseismic earthquake recordings. He is currently a Ph.D. candidate in the department of geophysics at Stanford University.

Jan P. Dut, formerly with Far East Shell, is now retired and living in California. Before entering the oil business in the 1920's he worked with Vening Meinesz and Hagedoon (the elder) gathering evidence in support of the *theory* of continental drift. Originally a paleontologist, he was party chief on the first geophysical oil finds in Brunei and Indonesia. He visits Stanford at irregular intervals and has some theory of migration which none of us understands well enough to program. It has to do with tangencies from the aplanat to the monochromat. Unconfirmed reports are that Dut will be a consulting professor at Denver University this autumn.

Bob Godfrey graduated in 1975 with a B.Sc. in geological engineering from the University of British Columbia. He then worked one year with Imperial Oil Ltd. as an exploration geophysicist. Previous summers were spent in the Beaufort Sea area conducting reflection/refraction surveys for the Geological Survey of Canada. Presently, he is a Ph.D. candidate in Geophysics at Stanford.

William C. Gray received a B.A. degree in mathematics and computer science from the University of Texas in 1968. For a year, he worked for Mobil R&D developing seismic processing programs. He took a leave of absence in 1969 to go into the Army where he was a systems analyst working on design of message switching systems. Returning to Dallas two years later, he worked for Mobil and attended Southern Methodist University, where he received a M.A.S. in systems engineering in 1973. In 1975 he was awarded an incentive fellowship from Mobil and is currently a Ph.D. candidate at Stanford in geophysics. He is a member of SEG and ACM, and has received a patent on seismic modeling and has several others pending for methods of multiple elimination and statics correction.

Einar Kjartansson received a B.S. in physics and mathematical sciences from Denison University 1976, and an M.S. in geophysics from Stanford University in January 1978. He was employed by the National Energy Authority of Iceland using electrical methods in the exploration for geothermal resources during the summers of 1975 and 1976. At Stanford he has been associated with both the Stanford Rock Physics Project (SRP) and SEP. His current research interests center around seismic wave attenuation. During 1977-78 he was the recipient of the Cecil and Ida Green Fellowship in geophysics. He is currently a Ph.D. candidate at Stanford University and is a member of SEG and AGU.

Walter S. Lynn received a B.A. degree in geology and geophysics from Princeton University in 1973, and an M.S. degree in geophysics from Oregon State University in 1975. His undergraduate and M.S. thesis research was on velocity inhomogeneities in the lower mantle and on the tectonic evolution of the northern Cocos plate, respectively. He is currently a Ph.D. candidate in the geophysics department at Stanford University, and is a member of SEG, AGU and AAPG.

Lawrence C. Morley received a B.Sc. in math and physics from the University of Toronto in 1973 and an M.Sc. in geophysics from the same institution in June 1975. His M.Sc. thesis was on artificial source techniques in magneto-tellurics. As an undergraduate he had summer jobs on magnetics and gravity crews in Northern Quebec and the Canadian Arctic. He also had computer programming positions with the Dominion Observatory of Canada and the Applied Physics Division of the National Research Council of Canada. After M.S.C. graduation he worked for a year with Chevron Oil in 1976-77 taking graduate courses in systems engineering at Carleton University. He is currently a Ph.D. candidate in geophysics at Stanford.

John Newkirk attended U.C. Berkeley and Harvard before graduating from M.I.T. in 1972 with degrees in business and electrical engineering. He received his M.S. in information systems from Stanford in 1973, and completed his doctorate in electrical engineering in 1978. His interest is in starting new business enterprises, and he hopes to find new commercial applications for technology in the petroleum industry.

Richard Ottolini has been with the SEP since October 1977. He received a B.S. degree in earth and planetary sciences from M.I.T. in 1976 and an M.S. geophysics degree from Stanford in 1978. He did reflection seismology research for GSI during the summer of 1977. He is interested in migration, the automated interpretation of geophysical data, deep continental seismic reflections and Chinese geophysics. Presently he is working toward a Ph.D. degree in geophysics and is a member of SEG and AGU.

Jeff Thorson received a B.S. degree in geology from the University of Washington in 1973 and an M.S. degree in geophysics from the University of Houston in 1975. He has worked for Getty Oil Company as an interpreter and in the field as a company representative on various seismic surveys. He is a member of SEG and EAEG, and is the recipient of an N.S.F. graduate fellowship.