

Research Personnel

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 Electroynamics (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 1973, he was a consultant to the Chevron Oil Field Research Company. He is an active member of the Society of Exploration Geophysicists, 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. His textbook *Fundamentals of Geophysical Data Processing* was published in 1976 and translated to Chinese (1979) and Russian (1981). In 1977, he was elected a Fellow of the American Geophysical Union. In 1979, he joined the MIT Corporation Advisory Committee to Earth Sciences. He is professor of geophysics at Stanford University and director of the Stanford Exploration Project. During the 1979-80 year he was on sabbatical leave at the Department of Geodesy and Geophysics, Cambridge University.

Dave Hale received a B.S. in physics from Texas A & M University in 1977. He then worked for Western Geophysical Company as a field seismologist in Venezuela and later as a research geophysicist in Houston. In the latter role, he implemented frequency domain methods of multichannel filtering and migration of seismic data and studied marine seismic sources with respect to wavelet processing techniques. In July of 1979, he joined the SEP and is currently working toward his Ph.D. in geophysics. Dave is a member of SEG.

Allan (Bert) Jacobs received a B.S. in physics from MIT in 1977. He is now working toward a Ph.D. in geophysics at Stanford and holds a National Science Foundation Fellowship. During the summer of 1979 he worked on migration programs for Atlantic Richfield. Bert's research activities center around the problem of extracting physical parameters from seismic records.

George A. McMechan was an undergraduate in geophysical engineering at the University of British Columbia and did graduate studies in geophysics at the University of Toronto. Since 1973 he has been employed as a research seismologist by the Canadian federal government. His primary research interest to date has been in body wave inversion, especially for the upper mantle. While on sabbatical leave at Stanford (1979-80) he worked on inversion using wavefield technique.

Lawrence C. Morley received a B.Sc. in math and physics ('73) and an M.Sc. in geophysics ('75) - both from the University of Toronto. His master's research was on artificial source techniques in magnetotellurics. After M.Sc. graduation he worked with Chevron Geophysical in Calgary on seismic processing and field crews. He is currently a Ph.D. student in geophysics at Stanford.

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. in geophysics 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. During 1979 Rick spent six months studying at the Peking Language Institute, Peking, China. He is a Ph.D. candidate at Stanford, a member of SEG and AGU.

Robert H. Stolt received his Ph.D. in high energy physics at the University of Colorado in 1970. His thesis research involved the physics of para particles. Post-doctoral research during 1970-71 at the University of Colorado concerned the development of a theory of composite particles. In July of 1971 he joined the Exploration Research Division of CONOCO, where he now holds the title of theory group leader. During 1979-80 he was on leave to direct the Stanford Exploration Project.

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.

Mathew J. Yedlin received his Ph.D. degree in geophysics from the University of British Columbia in 1978. His thesis research involved the application of disk ray theory to anisotropic media. Post-doctoral research, during 1978-79, at both the University of Alberta and the Institute of Geological Sciences at Edinburgh concerned the development of ray-tracing techniques in arbitrarily anisotropic media. Currently, he is studying reflection processing while on a post-doc at the SEP.

Sponsors of the Stanford Exploration Project 1979-1980

AGIP S.p.A.

+Ing. Dino Fenati
Seas -Cont
P.O. Box 4174
20100 Milan
Italy

Compagnie Generale de Geophysique

+Dominique Michon
B.P. 56
6, Rue Galvani-91301
Massy
France

Amoco Production Research Co.

J.B. Cameron
+K.R. Kelly
P.O. Box 591
Tulsa, Oklahoma 74102
918-664-3000

CONOCO

Jerry Ware
Steve Hill
+Al Benson
Drawer 1267
Ponca City, Oklahoma 74601
405-767-3456

Atlantic Richfield Company

*+Nick Carayannopoulos
Ed Neitzel
P.O. Box 2819
Dallas, Texas 75221
214-424-3511

Digicon

Edward Prince
Philip S. Schultz
+John W.C. Sherwood
3701 Kirby Drive
Houston, Texas 77098
713-526-5611

British Petroleum Trading Limited

+D. Northwood
Britannic House
Moor Lane
London EC2Y 9BU
England
01-920-6773

Exxon Production Research Co.

**John W. Dunkin
P.O. Box 2189
Houston, Texas 77001
713-965-4604

Chevron Oil Field Research Co.

J.R. Baroffio
+Steve Doherty
*Francis Muir
P.O. Box 446
La Habra, California 90631
213-694-7000

Geophysical Company of Norway A.S.

+Lars Sonneland
Rektor Natvig-Pedersensvei 29
Postboks 2508, Ullandhaug
N-4001 Stavanger
Norway
045-55-000

Cities Service Company

**Brian Dent
Box 3908
Tulsa, Oklahoma 74102
918-561-5393

Geophysical Service, Inc.

Danny Ong
+Cam Wason
MS 966
P.O. Box 5621
Dallas, Texas 75222
214-238-3379

+Project Contact

*Members of Steering Committee

Getty Oil Company

*F.W. Lau

David L. Mitchell
 Exploration and Production
 Research Center
 P.O. Box 42214
 10201 West Park
 Houston, Texas 77042
 713-972-1744

Gulf Research & Development Co.

**Mike Parkinson, Chairman,

Steering Committee
 P.O. Drawer 2038
 Pittsburgh, Pennsylvania 15230
 412-665-6843

IBM

*Jeno Gazdag

Palo Alto Scientific Center
 1530 Page Mill Road
 P.O. Box 10500
 Palo Alto, California 94304
 415-855-3143

Japan Petroleum Exploration Co., Ltd.

*Takeshi Ikawa

Geophysical Headquarters
 6-1 Ohtemachi 1-Chome
 Chiyoda-Ku
 Tokyo 100
 Japan
 03-201-7571

Koninklijke Shell

A.J. Akveld

*Reinhard Bortfeld

Exploratie en Produktie
 Laboratorium
 Volmerlaan 6
 Rijswijk (ZH)
 The Netherlands

Marathon Oil Company

*Louis J. Shamey

*Robert D. Mager

Physics & Math Dept. Res. Div.
 Box 269
 Littleton, Colorado 80160
 303-794-2601

Mobil Research & Development Corp.

E.B. Louthback

*Manus R. Foster

*Ralphe Wiggins

3600 Duncanville Road
 Box 900
 Dallas, Texas 75221
 214-331-6531

Occidental Exploration & Production Co.

*C.G. Fisher

R.H. Vaughan

5000 Stockdale Highway
 Bakersfield, California 93309
 805-395-8356

Petty-Ray Operations

*Wulf Massell

John Whittlesey

P.O. Box 36306

Houston, Texas 77036
 713-774-7561

Phillips Petroleum

*B.O. Buell

71C

Phillips Research Center

Bartlesville, Oklahoma 74003
 918-661-3171

Prakla-Seismos GMBH

*Dietrich Ristow

Box 4767

D-3000 Hannover

Haarstrasse 5
 West Germany

Seismograph Service Corp.

*S.W. Schoelhorn

Box 1590

Tulsa, Oklahoma 74102
 918-827-3330

SNEA (Elf Aquitaine)

*Claude Richard

Departement des Techniques
 et Recherches Geophysiques

Tour Generale

5, Place de la Pyramide

Quartier Villon

92800 Puteaux

France

Sunmark Exploration Company

+Charles Barron
Joe Sharp
David Dees
600 N. Central Expressway
Richardson, Texas 75080
214-699-3200

Superior Oil Company

+Louis Castro
T.A. Russell
12401 Westheimer
Houston, Texas 77077
713-497-1550

Teledyne Exploration

+Kevin M. Barry
5825 Chimney Rock Road
P.O. Box 36269
Houston, Texas 77036
713-666-2561

Texaco

Elmer Eisner
+R.J. Loofbourrow
P.O. Box 425
Bellaire, Texas 77401
713-666-8000

TOTAL (Compagnie Francaise
des Petroles)

G. de Lombreres
+C. Norotte
39 a 43 Quai Andre Citroen
75739 Paris Cedex 15
France
578-33-33

Union Oil Company of California

+R.E. Helander
R.J. Stegemeier
P.O. Box 76
Brea, California 92621
714-528-7201

United Geophysical Corporation

+A.D. Christensen
2650 E. Foothill Boulevard
Pasadena, California 91109
213-449-4200

U.S. Geological Survey

+Robert H. Brune
345 Middlefield Road
Menlo Park, California 94025
415-323-8111

Western Geophysical Company

+*Ken Lerner
Aftab Alam
P.O. Box 2469
Houston, Texas 77001
713-789-9600

SEP PHONE DIRECTORY

Pat Bartz	415-497-1703
Jon Claerbout	497-3717
Rob Clayton	497-9580
Alfonso Gonzalez-Serrano	497-0463
Dave Hale	497-0253
Bert Jacobs	497-1319
Larry Morley	497-1250
Rick Ottolini	497-1250
Charles Sword	497-3719
Jeff Thorson	497-1319
Matt Yedlin	497-3719