SEP articles published or in press, 1987-88

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Yilmaz, O., Chambers, R., Nichols, D., and Abna, R, 1987, Part II, Fundamentals of 3-D migration: Leading Edge, **6**, 12, 26-33.

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36.51.0.16 hanauma.stanford.edu

If you are on the UNIX-UUCP net, our address is "decvax!hanauma" (i.e., send Fabio mail with the address "decvax!hanauma!fabio". If you are on BITNET, send mail to "MAILER@STANFORD" and then as the first line of your message insert the line

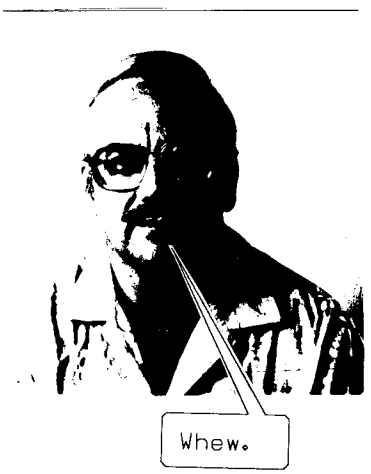
To: user@hanauma

where "user" is the login name of the person you wish to send mail to on hanauma.

Our 300/1200/2400 baud phone number is (415) 725-1335.

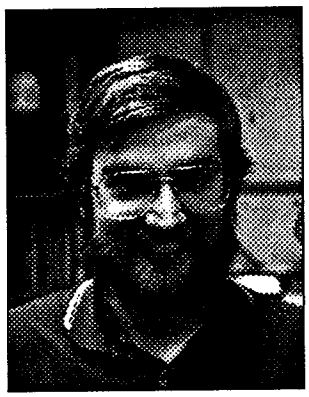
RESEARCH PERSONNEL

Biondo L. Biondi received a B.S. degree in electrical engineering in 1984 from the Polytechnical School of Milano. In March 1985 he joined the SEP and is a Ph.D. candidate in geophysics at Stanford. During 1987 he has worked for six months as a researcher with TOTAL Compagnie Française des Pétroles in Paris. He is a student member of SEG and EAEG.



Jon F. Claerbout (M.I.T., B.S. physics, 1960, M.S. geophysics, 1963, Ph.D. geophysics, 1967) joined the geophysics faculty at Stanford University in 1967 and became a consultant to the Chevron Oil Field Research Company (1967-73). On leave in 1972-73, he was a visiting research geologist at Princeton University and a visiting lecturer at Sydney University. In 1973 he founded the Stanford Exploration Project (SEP). In 1977 he was elected a Fellow of the American Geophysical Union and in 1979 joined the MIT Corporation Advisory Committee to Earth Sciences. Professor Claerbout received the Best Presentation Award from the Society of Exploration Geophysicists for his paper, *Extrapolation of Wave Fields,* and received the Society's Medal Award "in recognition of his outstanding and original pioneering work in seismic wave analysis." His first textbook *Fundamentals of Geophysical Data Processing,* published in 1976, was translated to Chinese (1979) and Russian (1981). During a 1979-80 sabbatical at Cambridge University he wrote a second book *Imaging the Earth's Interior.* In 1985 he became an honorary member of the SEG. Jon was elected to membership in the National Academy of Engineering in 1988; during the 1987-88 academic year he was also on sabbatical leave.

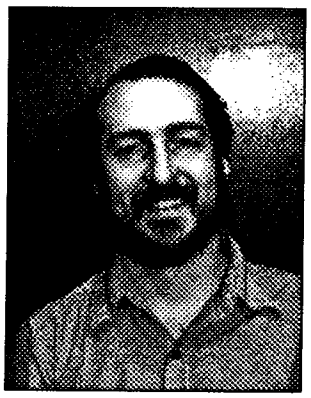
Steve Cole received a B.S. degree in physics from M.I.T. in 1983. He spent three years with Western Geophysical in Houston as a research geophysicist. He joined the SEP in September of 1986 and is working toward a Ph.D. in geophysics.



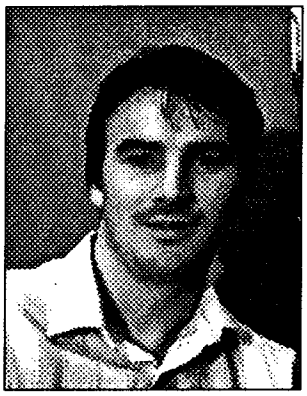
Joe Dellinger received a B.S. degree in mathematics and another in geophysics from Texas A & M university in 1983. In 1986 he received an M.S. from Stanford in Geophysics, and he is now continuing toward a Ph.D. in geophysics as a member of SEP. His current research interests include irregular spatial sampling, inversion, improving data display, and anisotropy.

John Etgen received a B.S. in Geophysical Engineering from Colorado School of Mines in May 1985. During the summers of 1985 and 1986 he worked as a geophysicist for Amoco Production Company in Denver. He joined SEP in September of 1985 and is currently working toward a Ph.D. in geophysics. His work includes finite-difference and Kirchhoff prestack migration and velocity analysis. He is a member of SEG.

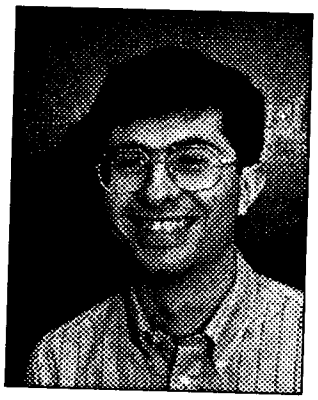
Paul Fowler received a B.S. in mathematics and geology from Portland State University in 1981 and an M.S. in geophysics from Stanford in 1984. He worked as a seismologist for the U.S. Army Corps of Engineers during 1982, and as a research geophysicist for Merlin Geophysical in Woking, England during the summer of 1984. He joined SEP in 1982 and is currently working toward a Ph.D. in geophysics. He is a member of SEG, EAEG, AGU, and SSA, and has been the recipient of an NSF graduate fellowship.

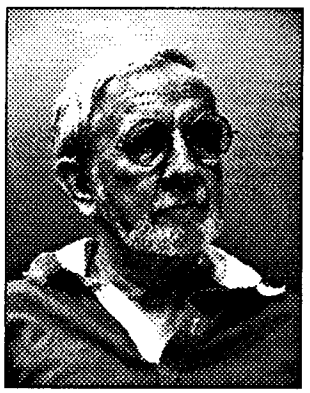


Jean-Luc Guiziou graduated from the Ecole Nationale Supérieure de Géologie de Nancy (France) in 1985. In 1985 and 1986 he worked as a Research Geophysicist at TOTAL Compagnie Française des Pétroles in Paris. He joined the SEP in February 1987 to work toward an M.S. in geophysics, under a TOTAL CFP scholarship.

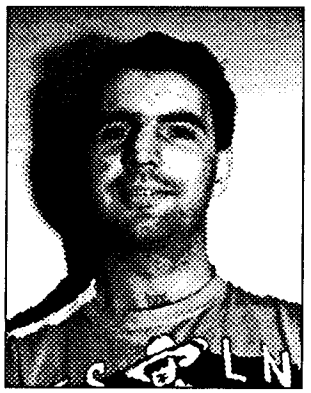


Clement Kostov graduated from the Ecole des Mines de Paris in 1983, then received an M.S. in Geostatistics from Stanford University and joined the SEP in July 1985. He has had summer jobs with Elf-Aquitaine, Sohio, and Schlumberger-Doll Research.

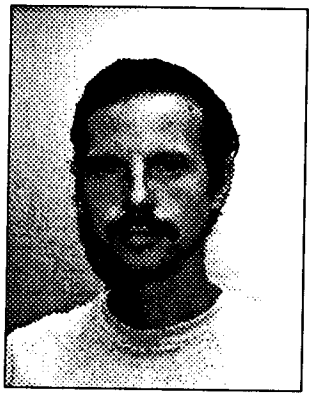




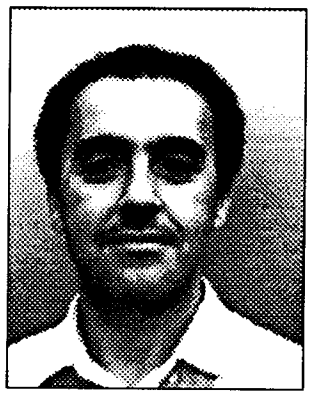
Francis Muir studied mathematics at Balliol College, Oxford, from 1943 to 1950. In 1954 he joined Seismograph Service Limited where he was employed in research and as a field geophysicist on reflection and refraction crews in the U.K., Algeria, Niger, Nigeria, Papua and Australia. He joined West Australian Petroleum in 1962 as a field supervisor and staff geophysicist, and transferred to Chevron Oil Field Research Company in 1967, where he was senior research associate at the time of his leaving Chevron at the end of 1983. Francis was a consulting professor at Stanford for two quarters in 1978, a further quarter in 1981, and was reappointed to that position in January of 1984. Since July 1984 he has continued the appointment on a part-time basis and, in addition, consults with industry, particularly on applications of velocity anisotropy to oilfield development.



Dave Nichols received his B.A. in physics from Cambridge University in 1982 and his M.Sc. in Geophysics from Imperial College, London in 1983. From 1983-87 he was employed by Western Geophysical in London. He joined SEP in 1987 and is currently working toward a Ph.D. in geophysics. He is a member of SEG and EAEG.



Rick Ottolini is currently an Acting Assistant Professor in the Department of Geophysics, working with the SEP and consulting in computer science. He received a Ph.D. from Stanford in 1983 with the thesis "Migration in Midpoint-Angle Coordinates" (SEP-33). He is interested in seismic imaging and data interpretation aids. His principal interest is bringing frontier hardware and software computing to SEP (super-computing, graphics, networks, user-interfaces, A.I.).



Fabio Rocca has been in the Department of Electronic Engineering at the Polytechnical School of Milano since 1962, where he currently teaches Digital Signal Processing. He was on the University Board of Regents (1980 - present) and is a past President of the Osservatorio Geofisico Sperimentale (1983-1984). During 1987-88 he is interim director of the SEP.

He was Associate Editor of Geophysical Prospecting from 1981 - 1985 and is a past President of the European Association of Exploration Geophysicists. He has consulted with AGIP, the Italian National Oil Company from 1968 to 1983.

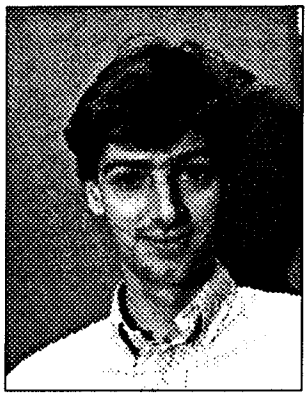
His research activities are digital signal processing for seismics, television bandwidth compression, single photon emission tomography, and most recently, Synthetic Aperture Radar.

Pierre Samec graduated from the Ecole des Mines de Paris in 1986. He then joined the SRP group after a summer job at Elf Aquitaine, and completed his M.S. in December 1987. He is currently interested in modeling the elastic wave equation in a borehole environement, as well as the mechanical behaviour of poroelastic solids.

Niki Serakiotou received a B.S. degree from National Technical University of Athens, Greece, in 1985 and an M.S. from Princeton in 1986, both in Electrical Engineering. She joined SEP in February 1987 and is a member of SEG and IEEE.

Christof Stork recently graduated with a Ph.D. from Caltech. His thesis research under Rob Clayton was on the application of ray trace tomography to reflection seismology. His long term research interest is careful analysis of methods for high resolution petroleum imaging with the purpose of coupling the interpreter's geologic knowledge and common sense into the algorithms through the use of constraints. Christof will be with SEP through August in a Post-Doc position. His plans after SEP are undetermined. He has held six summer jobs with Mobil, Chevron, Arco, & Amoco.

Jos van Trier received his B.S. in physics in 1982 and his M.S. in geophysics in 1985 from the University of Utrecht, the Netherlands. He joined the SEP in September 1985 and is currently working toward a Ph.D. in geophysics at Stanford. He worked as a research geophysicist for Shell Research in Rijswijk, the Netherlands during the summer of 1987.



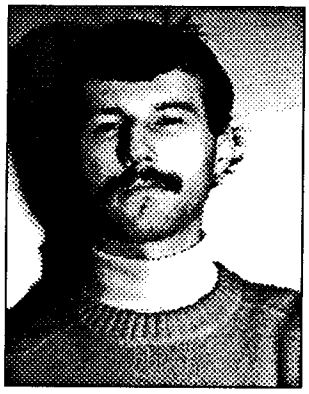
Marta Jo Woodward received a B.A. in chemistry from the University of California at San Diego in 1974 and an M.B.A. from the University of Santa Clara in 1981. From 1978 through 1982 she worked for the U.S. Geological Survey in Menlo Park. Marta joined the SEP in September 1983 and is currently working toward a Ph.D. in geophysics. During the summer of 1984 she worked for Chevron U.S.A. in Concord, CA.

Lin Zhang received a B.S. in electrical engineering from Xi'an Jiaotong University in 1982. From 1983 to 1985 he worked as a teaching assistant in the same university. In 1986 he received an M.S in electrical engineering from California Institute of Technology and worked on multichannel information theory. He joined SEP in 1987 and is currently working toward a Ph.D. in geophysics.

William Harlan was a member of the SEP from 1981 to 1986. He rejoined the SEP during February and March of 1988 to complete the work in this report. He received a B.S. in geophysics from Texas A&M University in 1981 under a scholarship from the SEG and received an M.S. and Ph.D. in geophysics from Stanford University in 1984 and 1986. While a student he worked short intervals as a seismic interpreter and researcher for Conoco, Inc. in Midland, Texas and in Ponca City, Oklahoma. He studied at L'institut Francais du Petrole in Rueil-Malmaison, France during 1984. From early 1986 to late 1987, he worked with Qinghua University in Beijing and with the Petroleum Ministry in Zhuoxian, China as a research scientist. He recently began work with the Osservatorio Geofisico Sperimentale in Trieste, Italy.

Claudio Prati was born in Milan, Italy, on March 20, 1958. He received the "laurea" in electronic engineering from the Politecnico di Milano in 1983 and the Ph.D. degree at the same University in 1987. In 1986 he joined the Centro Studi Telecommunicazioni Spaziali in Milano of the National Research Council. He was a Visiting Scholar at the SEP during Autumn Quarter, 1987. His main research interests concern digital signal processing, biomedical image processing, speech enhancement techniques and synthetic aperture radar.

Luigi Zanzi received a B.S. in electrical engineering in 1984 from the Polytechnical School of Milano. He spent one year with ARE (Milano) working in the radio laboratory. Since September 1985 he has worked on seismic signal processing in the Department of Electronics at the Polytechnical School of Milano, where is currently a Ph.D. candidate.



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