

CURRICULUM VITAE

PAUL L. STOFFA

DATE OF BIRTH: July 9, 1948

PLACE OF BIRTH: Palmerton, Pennsylvania, U.S.A.

EDUCATION:

1966 - 1970 B.S., Physics - Rensselaer Polytechnic Institute, Troy, New York
1970 - 1974 Faculty Fellow - Columbia University, New York, New York
1974 PhD, Geophysics - Columbia University, New York, New York

PROFESSIONAL EXPERIENCE:

2009 Jackson School of Geosciences Dean's Fellow, The University of Texas at Austin

1997 - present Shell Distinguished Chair in Geophysics, Department of Geological Sciences, The University of Texas at Austin

1994 - 2008 Director, Institute for Geophysics, The University of Texas at Austin

1991 - 1996 Carlton Centennial Professorship in Geophysics, Department of Geological Sciences, The University of Texas at Austin

1988 - 1994 Associate Director, Institute for Geophysics, The University of Texas at Austin

1983 - present Research Professor, Institute for Geophysics, The University of Texas at Austin

1983 - 1991 Wallace E. Pratt Professor in Geophysics, Department of Geological Sciences, The University of Texas at Austin

7/1/85 - 6/30/86 Visiting Professor, Federal University of Bahia, Salvador, Brazil

1/1/83 - 8/1/83 Visiting Professor, University of Hamburg, Germany

1981 - 1983 Consultant to Gulf Research and Development Company, Pearl River, New York

1979 - 1981 Senior Research Associate, Lamont-Doherty Geological Observatory of Columbia University

- 1978 - 1984 Adjunct Professor of Geology, Columbia University
- 1974 - 1979 Research Associate, Lamont-Doherty Geological Observatory of
Columbia University - Marine Seismology
- 1970 - 1974 Graduate Research Assistant, Lamont-Doherty Geological Observatory
of Columbia University, Palisades, New York

OTHER ACTIVITIES:

- 07/2007 – 06/2009 Member of Board of Governors, Integrated Ocean Drilling Program
Management International, Inc. (IODP-MI)
- 06/2007 – 2009 Member Representative for The University of Texas at Austin, Consortium
for Ocean Leadership
- 09/2006 – 2008 Member of Executive Council, Jackson School of Geosciences, The
University of Texas at Austin
- 2006 Member of Midterm Review Committee TU Delft Research Centres, The
Netherlands
- 02/2005 – 06/2007 Chairman – Board of Governors, Integrated Ocean Drilling Program
Management International, Inc. (IODP-MI)
- 09/2005 – 08/2006 Member of Strategic Planning Council, John A. and Katherine G. Jackson
School of Geosciences, The University of Texas at Austin
- 01/2004 – 02/2005 Vice Chairman – Board of Governors, Integrated Ocean Drilling Program
Management International, Inc. (IODP-MI)
- 04/2003 – 01/2004 Interim President, Integrated Ocean Drilling Program Management
International, Inc. (IODP-MI)
- 2001 - 2005 Member of Steering Committee, John A. and Katherine G. Jackson School
of Geosciences, The University of Texas at Austin
- 2001 - 2005 Member of Executive Committee, Geology Foundation,
The University of Texas at Austin
- 2000 - 2003 Society of Exploration Geophysicists District 3 Representative
- 2000 - 2002 Chairman, Joint Oceanographic Institutions, Board of Governors
- 2000 - 2001 Member of the Strategic Planning Group for a Visualization Lab,
The University of Texas at Austin

1999 – present	Member of External Scientific Advisory Board, Netherlands Research Centre, Integrated Solid Earth Sciences
1998 - 1999	Member of Information Technology Coordinating Council, The University of Texas at Austin
1998 - 1999	Member of the High Performance Computing Oversight Committee, The University of Texas at Austin
1996 - 1998	Member of the Digital Facilities and Infrastructure Committee, The University of Texas at Austin
1995 - 1999	Member of the Building Advisory Committee of the General Faculty, The University of Texas at Austin
1995 - 1998	Editorial Board of the Brazilian Journal of Geophysics
1994 - 2007	Consortium for Oceanographic Research and Education, Board of Governors
1994 – 08/2006	Joint Oceanographic Institutions, Board of Governors
1994 – 2003	Joint Oceanographic Institutions for Deep Earth Sampling, Executive Committee
1994 - 1997	Incorporated Research Institutions for Seismology, Board of Directors
1992 - present	Associate Editor, Journal of Seismic Exploration
1992 - 1999	Member of the Ocean Studies Board, National Research Council Chairman, Committee on the Arctic Research Vessel Chairman, Report Review Committee Committee Member, NOAA Sea Grant Reviews Committee Member, Marine Geology and Geophysics Reviews
1990 - 1998	Member of the Project Team “Ocean Continent Lithosphere Boundary” of the International Lithosphere Program
1987 - 1988	Editorial Board Member for Tectonophysics
1983 - 1986	Associate Editor, Journal of Geophysical Research
1982 - 1989	Member of the Society of Exploration Geophysicists’ Committee on Geophysical Activity
1981 - 1985	Member IEEE Committee for Multidimensional Signal Processing

AWARDS:

2003 Society of Brazilian Geophysicists, Foreign Geophysicist Recognition
Award

MEMBERSHIP IN PROFESSIONAL SOCIETIES:

Society of Exploration Geophysicists
American Geophysical Union
European Association of Geoscientists and Engineers

PUBLICATIONS

- Pestana, R.C., P.L. Stoffa, 2009, Time evolution of the wave equation using the Rapid Expansion Method (REM) (in press to Geophysics).
- Porsani, M., P. Stoffa, M. Sen, R. Seif, 2010, Partitioned least squares operator for large scale geophysical inversion (submitted for publication to Geophysics).
- Jackson, C. S., M. K. Sen, P. L. Stoffa, and G. Huerta, Data directed importance sampling for climate model uncertainty estimation, in *Advanced Computational Infrastructures for Parallel / Distributed Adaptive Applications*, edited by M. Parashar, X. Li, and S. Chandra, editors, Wiley Publishers, 2010
- Jin, L., P.L. Stoffa, M.K. Sen, 2009, Stochastic Inversion for Reservoir Properties Using Parallel Learning-Based VFSA and Pilot Point Parameterization, SPE International, SPE 118818
- Jin, L., P.L. Stoffa, M.K. Sen, R.K. Seif, A. Sena, 2009, Pilot point parameterization in stochastic inversion for reservoir properties using time-lapse seismic and production data, *J Seismic Exploration*, 18(1).
- Jin, L., M.K. Sen, P.L. Stoffa, 2009, Fusion based classification method and its application, *J Seismic Exploration*, 18 103-117 (2).
- Hu, C. and P. Stoffa, 2009, Slowness-driven Gaussian-beam prestack depth migration for low-fold seismic, *Geophysics*, 74(6), WCA35-WCA45.
- Hu, C., P. Stoffa, and K. McIntosh, 2008, First arrival stochastic tomography: Automatic background velocity estimation using beam semblances and VFSA, *Geophys Res Lett*, 35, L23307.
- Jin, L., M.K. Sen, P.L. Stoffa, R.K. Seif, 2008, Time-lapse seismic attributes analysis for waterflooded reservoir, *J Geophys Eng*, (5), 210-220.
- Wood, W.T., W. S. Holbrook, P.L. Stoffa, 2008, Full waveform inversion of reflection seismic data for ocean temperature profiles, *Geophys Res Lett*, 35, L04608.
- Sena, A.R., M.K. Sen, P.L. Stoffa, 2008, Modelling of ground penetrating radar data in stratified media using the reflectivity technique, *J Geophys Eng*, 5, 129-146.
- Stoffa, P.L., M.K. Sen, R.K. Seifoullaev, R.C. Pestana, J.T. Fokkema, 2006, Plane-wave depth migration, *Geophysics*, 71(6), S261-S272.
- Sena, A.R., P.L. Stoffa, and M.K. Sen, 2006, Split-step Fourier migration of GPR data in lossy media, *Geophysics*, 71(4), K77-K91.

- Bangerth W., H. Klie, M.F. Wheeler, P.L. Stoffa, and M.K. Sen, 2006, On optimization algorithms for the reservoir oil well placement problem, *Computational Geosciences*, 10, 303-319.
- Klie, H., W. Bangerth, X. Gai, M.F. Wheeler, P.L. Stoffa, M. Sen, M. Parashar, U. Catalyurek, J. Saltz, T. Kurc, 2006, Models, methods and middleware for grid-enabled multiphysics oil reservoir management, *Engineering with Computers*, 22, 349-370.
- Zhang, X, B. Rutt, U. Catalyurek, T. Kurc, P. Stoffa, M. Sen, J. Saltz, 2006, Supporting scalable and distributed data subsetting and aggregation in large-scale seismic data analysis, *IJHPCA*, 20(3), 423-438.
- Roy, L., M.K. Sen, K. McIntosh, P.L. Stoffa, Y. Nakamura, 2005, Joint inversion of first arrival seismic travel time and gravity data, *J Geophys and Eng*, 2, 277-289.
- Mukherjee, A., M.K. Sen, P.L. Stoffa, 2005, Traveltime computation and pre-stack time migration in transversely isotropic media, *J Seismic Exploration*, 13(3), 201-225.
- Kurc, T., U. Catalyurek, X. Zhang, J. Saltz, M. Peszynska, M. Wheeler, A. Sussman, M. Sen, R. Seifoullaev, P. Stoffa, C. Torres-Verdin, 2005, A simulation and data analysis system for large scale, data-driven oil reservoir simulation studies, *Concurrency and Computation: Practice and Experience*, 17, 1441-1467.
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- Sen, M.K., and P.L. Stoffa, 1992, Genetic inversion of AVO, *Geophysics*, *The Leading Edge of Exploration*, 11(1), 27-29.
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- Mutter, J.C., M. Talwani, and P.L. Stoffa, July 1982, Origin of Seaward-Dipping Reflectors in Oceanic Crust off the Norwegian Margin by "Subaerial Sea-floor Spreading," *Geology*, 10, 353-357.
- Stoffa, P.L., and J.B. Diebold, 1982, Seismic Signal Processing, Trends and Perspectives in Signal Processing, 2(3).
- Stoffa, P.L., J.B. Diebold, and P. Buhl, 1982, Velocity Analysis for Wide Aperture Seismic Data, *Geophysical Prospecting*, 30, 25-57.
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- Diebold, J. B., and P.L. Stoffa, 1981, The Traveltime Equation Tau-p Mapping and Inversion of Common Midpoint Data, *Geophysics*, 46(3), 238-254.
- Diebold, J.B., P.L. Stoffa, P. Buhl, and M. Truchan, 1981, Venezuela Basin Crustal Structure, *Journal of Geophysical Research (Red Book)*, 86(B9), 7901-7923.
- Sheridan, R.E., J.T. Crosby, G.M. Bryan, and P.L. Stoffa, 1981, Stratigraphy and Structure of the Southern Blake Plateau, Northern Florida Straits and Northern Bahamas Platform from Multichannel Seismic Reflection Data, *American Association of Petroleum Geologists Bulletin*, 65(12), 2571-2593.
- Stoffa, P.L., P. Buhl, J.B. Diebold, and F. Wenzel, 1981, Direct Mapping of Seismic Data to the Domain of Intercept Time and Ray Parameter: A Plane Wave Decomposition, *Geophysics*, 46(3), 255-267.
- Stoffa, P.L., J.B. Diebold, and P. Buhl, 1981, Inversion of Seismic Data in the Tau-p Plane, *Geophysical Research Letters*, 8(8), 869-872.
- Stoffa, P.L., A. Mauffret, M. Truchan, and P. Buhl, 1981, Sub-B" Layering in the Southern Caribbean: The Aruba Gap and Venezuela Basin, *Earth and Planetary Science Letters*, 3, 131-146.
- Wenzel, F., P.L. Stoffa, and P. Buhl, 1981, Seismic Modeling in the Domain of Intercept Time and Ray Parameter, *IEEE Transactions on Acoustics, Speech and Signal Processing*, ASSP-30(3), 406-423.

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- Stoffa, P.L., P. Buhl, T.J. Herron, T.K. Kan, and W.J. Ludwig, 1980, Mantle Reflections Beneath the Crestal Zone of the East Pacific Rise from Multi-channel Seismic Data, *Marine Geology*, 35, 83-97.
- Stoffa, P.L., and P. Buhl, 1979, Two-Ship Multichannel Seismic Experiments for Deep Crustal Studies: Expanded Spread and Constant Offset Profiles, *Journal of Geophysical Research*, 84, 7645-7660.
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- Stoffa, P. and M. Talwani, 1978, Exploring the crust beneath the oceans, *Lamont-Doherty Geological Observatory Yearbook*, 5, 23-29.
- Tatham, Robert H., and P.L. Stoffa, 1976, V_p/V_s - A Potential Hydrocarbon Indicator, *Geophysics*, 41(5), 837-849.
- Stoffa, P.L., P. Buhl, and G.M. Bryan, 1974, Cepstrum Aliasing and the Calculation of the Hilbert Transform, *Geophysics Short Note*, 39(4), 543-544.
- Stoffa, P.L., P. Buhl, and G.M. Bryan, 1974, The Application of Homomorphic Deconvolution to Shallow-Water Marine Seismology - Part I: Models, *Geophysics*, 39(4), 401-416.
- Buhl, P., P.L. Stoffa, and G.M. Bryan, 1974, The Application of Homomorphic Deconvolution to Shallow-Water Marine Seismology - Part II: Real Data, *Geophysics*, 39(4), 417-426.

CLIMATE RELATED RESEARCH PAPERS

- Mu, Q., C.S. Jackson, and P.L. Stoffa, 2004, A multivariate empirical-orthogonal-function-based measure of climate model performance. *J Geophys Res* 109, D15101.
- Xia, Y., Z.-L. Yang, P.L. Stoffa, and M.K. Sen, 2005, Using different hydrological variables to assess the impacts of atmospheric forcing errors on optimization and uncertainty analysis of the CHASM surface model at a cold catchment. *J Geophys Res*, 110, D01101, doi:10.1029/2004JD005130.
- Xia, Y., Z.-L. Yang, P.L. Stoffa, and M.K. Sen, 2005, Optimal parameter and uncertainty estimation of a land surface model: Sensitivity to parameter ranges and model complexities. *Advances Atmospheric Science*, 22(1), 142-157.
- Xia, Y., M.K. Sen, C. Jackson, and P.L. Stoffa, 2004, Multidataset study of optimal parameter and uncertainty estimation of a land surface model with Bayesian stochastic inversion and multicriteria method, *J Applied Meteorology*, 43(10), 1477-1497.
- Jackson, C., M.K. Sen, and P.L. Stoffa, 2004, An efficient stochastic Bayesian approach to optimal parameter and uncertainty estimation within climate system models, *J of Climate*, 17, 2828-2841.
- Xia, Y., Z.-L. Yang, C. Jackson, P.L. Stoffa, and M.K. Sen, 2004, Impacts of data length on optimal parameter and uncertainty estimation of a land surface model. *J Geophys Res*, 109, No. D7, D07101 10.1029/2003JD004419.
- Xia, Y., P.L. Stoffa, C. Jackson, and M. Sen, 2003, Effect of forcing data errors on calibration and uncertainty estimates of the CHASM model: a multi-dataset study. *Observations, Theory, and Modeling of Atmospheric and Oceanic Variability, World Scientific Series on Meteorology of East Asia, Vol 3*, 340-355, World Scientific Publishing Corporation, Singapore.
- Jackson, C., Y. Xia, M.K. Sen, and P.L. Stoffa, 2003, Optimal parameter and uncertainty estimation of a land surface model: A case study using data from Cabauw, Netherlands, *J. Geophysical Research*, 108(D18), 4583.

PATENTS

- Sen, M.K., P.L. Stoffa, and F. Liu, 2003, Angle dependent surface multiple attenuation for two-component marine bottom sensor data, US 6,654,693 B2 granted on 11/25/03.
- Ziolkowski, A.M., and P.L. Stoffa, 1984, Determination of far field signatures, for instance of seismic sources, US 4,476,550.

BOOKS & BOOK CHAPTERS

- Stoffa, P.L., M.K. Sen, R.K. Seifoullaeu, R.C. Pestana, 2010, Plane Wave Seismic Data: Parallel and adaptive Strategies for Velocity Analysis and Imaging, in Parashar, M., X. Li, S. Chandra, Eds, *Advanced Computational Infrastructures for Parallel/Distributed Adaptive Applications*, Wiley Publishers.
- Jackson, C.S., M.K. Sen, P.L. Stoffa, and G. Huerta, 2010, Data Directed Importance Sampling for Climate Model Parameter Uncertainty Estimation, in Parashar, M., X. Li, S. Chandra, Eds., *Advanced Computational Infrastructures for Parallel/Distributed Adaptive Applications*, Wiley Publishers
- Sena, A.R., P.L. Stoffa, M.K. Sen, 2005, Migration of ground penetrating radar data in heterogeneous and dispersive media, in Oluic, M., Ed., *New Strategies for European Remote Sensing: Proceedings of the 24th Symposium of the European Association of Remote Sensing Laboratories, Dubrovnik, Croatia, 25-27 May 2004*, 711-718.
- Sen, M.K., P.L. Stoffa, R. Seifoullaeu, and J.T. Fokkema, 2003, Numerical and field investigation of GPR: Toward an Airborne GPR, *Subsurface Sensing Technologies and Applications*, 4(1), 41-60.
- Xia, G., M.K. Sen, and P.L. Stoffa, 1997, AVO analysis of Mobil offshore data by a linearized inversion in the τ -p domain, Chapter 9, *AVO Inversion of Mobil Data Set*, SEG Press, 167-185.
- Sen, Mrinal K., and Paul L. Stoffa, 1996, (Book Review) *Wavelets in Geophysics*, Efi Foufoula-Georgiou and Praveen Kumar (eds.), in *Mathematics of Computation* 65, 436-438.
- Sen, M.K., and P.L. Stoffa, 1995, *Global Optimization Methods in Geophysical Inversion*, as part of *Advances in Exploration Geophysics* series, Elsevier Publishing Co.
- Diebold, J.B. and Stoffa, P.L., 1991, The travelttime equation, tau-p mapping, and inversion of common midpoint data, in Gardner, G. H. F. and Lu, L., Ed., *Slant-stack processing*, Soc. Expl. Geophys., 151-167.
- Stoffa, P.L., Buhl, P., Diebold, J.B. and Wenzel, F., 1991, Direct mapping of seismic data to the domain of intercept time and ray parameter - A plane-wave decomposition, in Gardner, G. H. F. and Lu, L., Ed., *Slant-stack processing*, Soc. Expl. Geophys., 197-209.
- Stoffa, Paul L. (editor), 1989, *Tau-p: A Plane Wave Approach to the Analysis of Seismic Data*, Kluwer Academic Publishers Group, Dordrecht, The Netherlands.
- Buhl, P., Stoffa, P.L. and Bryan, G.M., 1978, The application of homomorphic deconvolution to shallow-water marine seismology - part II - Real data, in Webster, G. M., Ed., *Deconvolution*, Soc. Expl. Geophys., 473-482.

Stoffa, P.L., Buhl, P., Bryan, G.M., Stoffa, P.L., Buhl, P. and Bryan, G.M., 1978, The application of homomorphic deconvolution to shallow-water marine seismology - part I - Models, *in* Webster, G.M., Ed., *Deconvolution*, Soc. Expl. Geophys., 457-472.

Talwani, M., C.C. Windisch, P.L. Stoffa, P. Buhl, R.E. Houtz, 1977, Multichannel seismic study in the Venezuelan basin and the Curacao Ridge, *in* Talwani, M., Ed., *Island Arcs, Deep Sea Trenches and Back-Arc Basins*, Maurice Ewing Series, Vol 1, American Geophysical Union, 83-98.

TECHNICAL REPORTS

Sen, M.K., P.L. Stoffa, and R. Seifoullaev, 2001, Airborne GPR for the detection of underground facilities, Report to the Institute of Advanced Technology, University of Texas at Austin.

Sen, Vikramaditya, Paul L. Stoffa, Donald D. Blankenship and Ian W.D. Dalziel, 1997, Results from the ANTALITH field tests: A pilot program for seismic investigation in central-west Antarctica, UTIG TR-172.

Stoffa, P.L., M.K. Sen, and V. Sen, 1996, Parallel Algorithms for Automatic Estimation of Seismic Velocities, Report to Cray Research, Inc., UTIG TR-147.

Tanis, M.C., J.T. Fokkema, P.L. Stoffa, M.K. Sen, 1996, Prestack split-step Fourier depth migration with DSR, TU Delft Technical Report.

Sen, Mrinal K., Paul L. Stoffa, and Carlos Calderon-Macias, 1995, Artificial Neural Networks for Inversion and Interpretation of Seismic Data, Report to Cray Research, Inc., UTIG TR-135.

Tanis, M.C., A.W. Mulder, P.L. Stoffa, M.K. Sen, and J. Fokkema, 1995, Pre-stack Split-step Fourier Depth Migration in the p_0 - p_s Domain, UTIG TR-133.

Jervis, M., M.K. Sen, P.L. Stoffa, 1994, 3-D Traveltime Calculations, UTIG TR-131

Wood, W.T., P.L. Stoffa, and T.H. Shipley, 1991, Detecting Clathrate Concentrations Through High Resolution Seismic Velocity Analysis of Shallow Sediments, Report to U.S. Geological Survey, UTIG TR-110.

Stoffa, P.L., January 1989, University Partnership Program, Report to Landmark Graphics Corporation, UTIG TR-99.

Stoffa, P.L., 1989, Multichannel Downhole Seismic Modelling and Processing.

Stoffa, P.L., and Warren T. Wood, January 1989, Velocity Analysis and Pre-stack Reflection Migration in the Tau-p Domain, Report to Cray Research, Inc., UTIG TR-100.

Stoffa, P.L., January 1988, Split-step Fourier Modeling and Migration, Report to Cray Research, Inc., UTIG TR-101.

INVITED SHORT COURSES

Parallel Processing of Seismic Data, August 2-6, 2004, CPGG/UFBA – Research Center in Geophysics and Geology, Federal University of Bahia, Salvador, Brazil.

Parallel Computing for Seismic Processing, August 23-25, 2000, CPGG/UFBA – Salvador, Brazil.

Practical Approaches to Uncertainty Estimation in Geophysical Inversion, Sociedade Brasileira de Geofisica, Sao Paulo, Brazil, September 1997.

Nonlinear Optimization Methods in Geophysics, March 15–17, 1993, Universidade Federal da Bahia, sponsored by the Sociedade Brasileira de Geofisica, Salvador, Brazil.

SYMPOSIA

Oceanography: The Making of a Science, People, Institutions, and Discovery, Sponsored by the Office of Naval Research, Texas A&M University, February 2000.

High Performance Parallel Computing Symposium, Cost effective parallel seismic computing using a PC cluster, Applied Research Laboratories, December 1999.

The Future of Exploration Geophysics: Meeting the Needs of Industry and Academics, UT Department of Geological Sciences, December 1999.

WORKSHOPS/FORUMS

Time Evolution of the Wave Equation Using the Rapid Expansion Method for Highly Accurate TRM, Invited Speaker, EAGE Subsalt Imaging: Focus on Azimuth Workshop, November 15-18, 2009, Cairo.

RTM Problems and Promises Workshop, workshop co-convenor, SEG Annual Meeting, October 29, 2009, Houston.

Applications (Session Chair), SEG Annual Meeting, October 28th, 2009, Houston Stress Effect and Compaction Surveillance

Using 4D Seismic (Session Chair), SEG Annual Meeting, October 27th, 2009, Houston

Seismic Imaging and Velocity Analysis: Current Status and Future Directions, Invited Speaker, Gaussian Beams with Application to Seismology Workshop, November 29, 30, and December 3, 2007, sponsored by Center for Numerical Analysis, ICES, The University of Texas at Austin.

Velocity Analysis for Depth Imaging, co-chair, Ninth International Congress of the Brazilian Geophysical Society, September 2005, Salvador, Brazil

Interactive Workshop to address Current Problems in Acquisition, Processing and Interpretation of Multicomponent Seismic Data (follow-up workshop to the EDGER Workshop held December 2003 at Shell in Houston), December 2004, Houston.

3D Parallel Processing Workshop, Cost effective parallel seismic computing using a PC cluster, Brazilian Geophysical Society, August 1999, Rio de Janeiro, Brazil.

Workshop on Wavelet Estimation and Lithology Inversion, Society of Exploration Geophysicists, SA and GA: Tools for Estimating the Macro-model, Paul L. Stoffa and Mrinal K. Sen, 1996.

Workshop on “Comparison of seismic inversion methods on a single real data set,” AVO analysis of Mobil data by a linearized inversion in the τ -p domain, Xia, Ganyuan, Mrinal K. Sen, and Paul L. Stoffa, 1996.

EAGE Workshop on Removal of Multiples and Free Surface Effects in Marine Seismic Data, May 27, 1995, Glasgow, Scotland.

NATO Workshop on: Rifted Ocean-Continent Boundaries, May 11-14, 1994, Mallorca, Spain.

EDGE/MARGINS Workshop to review recent progress in continental margin research and outline outstanding scientific targets that are addressable seismically, October 1993, Woods Hole Oceanographic Institution, Woods Hole, Massachusetts.

Workshop on Shallow Water Acoustics, April 24-26, 1991, sponsored by the Office of Naval Research, Woods Hole Oceanographic Institution, Woods Hole, Massachusetts.

Gas Hydrate Workshop, April 23-24, 1991, sponsored by U.S. Department of Energy, Morgantown, U.S. Geological Survey and Naval Research Laboratory, Reston, Virginia.

A High Resolution 3D Survey, Invited Speaker, April 9-10, 1991, Workshop on High Resolution Offshore Seismic for Defense Purposes, sponsored by Naval Oceanographic and Atmospheric Research Laboratory, University of Houston, Houston, TX.

Workshop on the Antarctic International Lithosphere Project, Invited Speaker, July 19-20, 1989, National Academy of Science, Washington, D.C.

Geophysics and Computers - A Look to the Future, Co-Convener, April 27-28, 1989, Houston Area Research Center, The Woodlands, TX.

Exploration of Deep Continental Margin Crust with Closely Spaced Shots and Receivers, Co-convener, February 27-28, 1989, Houston Area Research Center, The Woodlands, TX.

Continental Margins Workshop, Participant, November 20-23, 1988, National Research Council, Irvine, CA.

INVITED PAPERS

Cost effective parallel seismic computing using a PC cluster, November 1998, Phillips Petroleum Company, Bartlesville, OK.

Migration and Inversion of Seismic Data, May 1994, NATO/ARW Advanced Research Workshop on Rifted Ocean - Continent Boundaries, Mallorca, Spain.

Tau-p: An Alternative Domain for Filtering, Velocity Analysis and Imaging, 1989, Recent Advances and the Road Ahead Symposium, Proceedings of the 59th Annual Meeting of the Society of Exploration Geophysicists, Dallas, TX.

Pre-stack Velocity Analysis in the Tau-p Domain, 1987, Research Workshop, 57th Annual Meeting of the Society of Exploration Geophysicists, New Orleans, LA.

Velocity Analysis in the Tau-p Domain, 1987, Proceedings of the 57th Annual Meeting of the Society of Exploration Geophysicists, New Orleans, LA.

INVITED LECTURES

Inversion for reservoir parameters using both time-lapse seismic and well production data, March 2008, Dallas Geophysical Society, Dallas, TX

Inversion for reservoir parameters using both time-lapse seismic and well production data, August 2007, Universidade Federal da Bahia, Salvador, Brazil.

Resolution of seismic and reservoir models, September 2006, Exploration Geophysics Seminar, The University of Texas at Austin.

An analysis of flow-simulation scales and seismic response, August 2006, Universidade Federal da Bahia, Salvador, Brazil.

An analysis of flow-simulation scales and seismic response, February 2006, MTEM Limited, Edinburgh, Scotland.

Double plane wave Kirchhoff depth migration, February 2006, MTEM Limited, Edinburgh, Scotland.

Transient EM imaging using split step Fourier methods, February 2006, MTEM Limited, Edinburgh, Scotland.

Flow/Petrogeophysics/Geophysics Integration – Instrumented Oilfield, October 2005, Fifteenth Annual Industrial Affiliates Meeting, Center for Subsurface Modeling, The University of Texas at Austin.

Double plane wave Kirchhoff depth migration, September 2005, Universidade Federal da Bahia, Salvador, Brazil.

Research projects at The University of Texas Institute for Geophysics, April 2005, Department of Earth Science Seminar Series, Rice University, Houston, TX

Research projects at The University of Texas Institute for Geophysics, February 2005, Society of Petroleum Engineers, Austin

THRUST S1: Energy testbeds, January 2005, Center for Geosystems Engineering Management (C-GEM) ERC Meeting, The University of Texas at Austin.

Flow/geophysics integration, 2004, Fourteenth Annual Industrial Affiliates Meeting, Center for Subsurface Modeling, The University of Texas at Austin.

Status of exploration seismology at other UT research units (UT Institute for Geophysics), EDGER Forum Symposium - Successful Applications of Multicomponent Seismic Data, February 2004, Jackson School of Geosciences, The University of Texas at Austin

Pre stack 3D seismic modeling, 2003, Thirteenth Annual Industrial Affiliates Meeting, Center for Subsurface Modeling, The University of Texas at Austin.

Stoffa, P.L., M. Sen, R. Seifoullaev, R. Pestana, and M. Tanis, 2003, Seismic imaging and velocity analysis: Current status and future directions, SIAM Conference on Mathematical and Computational Issues in the Geosciences, Austin, Texas, 6.

Research projects at The University of Texas Institute for Geophysics, October 2002, Bureau of Economic Geology's Fall 2002 Technical Seminar Series, The University of Texas at Austin.

Research in subsurface modeling and geophysics, September 2002, The Institute for Information Science and Technology (IIST) Review Panel Committee's presentation to the O'Donnell Foundation's site visit, The University of Texas at Austin.

Migration velocity analysis: a problem for non linear optimization, August 2002, Universidade Federal da Bahia, Salvador, Brazil.

Geophysical research projects at the University of Texas Institute for Geophysics, August 2002, Petrobras, Rio de Janeiro, Brazil.

Estimating pre-critical seismic data from post-critical seismic data, December 2001, University of Houston.

Earth Science Research at The University of Texas Institute for Geophysics, February 2001, Lakeway Mens Breakfast Club, Lakeway, TX.

Earth Science Research at The University of Texas Institute for Geophysics, Netherlands Research Centre for Integrated Solid Earth Science Annual Assembly, December 2000, Amsterdam, The Netherlands.

Research at The University of Texas Institute for Geophysics, October 2000, Bureau of Economic Geology, UT-Austin.

UTIG: Global-Scale Basic Earth Science Research Using Geophysical Methods, March 1999, Defense Advanced Research Projects Agency, Washington, DC.

Dip Selection 2-D Multiple Attenuation Operators in Plane Wave Domain, June 1998, Delft University of Technology, The Netherlands.

Migration Velocity Analysis, July 1996, Western Atlas, Houston, TX.

Migration Velocity Estimation, May 1996, Rice University, Houston, TX.

Linear Inversion Combined with Nonlinear Optimization to Speed Convergence for Geophysical Inverse Problems, March 1996, Instituto de Geociências, Universidade Federal da Bahia, Salvador, Brazil.

Prestack Migration Velocity Analysis using Nonlinear Optimization, March 1995, German Geophysical Society, Hamburg, Germany.

Pre-stack migration velocity analysis using VFSA: A comparison of migrated misfit and reflection tomography, August 1994, Instituto de Geociências, Universidade Federal da Bahia, Salvador, Brazil.

Nonlinear Optimization Methods in Geophysics, June 1994, GeoForschungs Zentrum Potsdam, University of Potsdam, Germany.

Nonlinear Optimization Methods in Geophysics, June 1994, Norsk Hydro, Statoil and the University of Bergen, Norway.

Nonlinear Optimization Methods in Geophysics, June 1994, University of Trondheim, Norway.

Nonlinear Optimization Methods in Geophysics, May 1994, Delft University of Technology, The Netherlands.

Geophysical applications of Global Optimization Methods, February 1994, Rice University, Houston, TX.

Seismic Waveform Inversion Using Global Optimization Methods: Examples Using Genetic Algorithms, November 1993, Compagnie Générale de Géophysique, Massy, France.

Seismic Waveform Inversion Using Global Optimization Methods: Examples Using Genetic Algorithms, Petroleum Science and Technology Symposium, October 1992, Cray Research, Inc., Houston, TX.

Seismic Waveform Inversion Using Global Optimization Methods, February 1992, University of New Orleans.

Seismic Waveform Inversion Using Global Optimization Methods, August 1991, Phillips Petroleum Company, Bartlesville, OK.

Experience With a Frequency Wavenumber Migration Algorithm on Parallel Computer Architectures, February 1991, MCC Workshop on Parallel Applications in the Oil Industry, Austin, TX.

Experiences with Supercomputers in Reflection Seismology, November 1989, IEEE-ACM Supercomputing Conference '89, Reno, NV.

3-D Laterally variable phase shift migration with examples from offshore Costa Rica, April 1989, Atlantic Richfield Company, Plano, TX.

Recent Seismic Programs at The University of Texas Institute for Geophysics: Costa Rica 3D, Nankai Trough high resolution 2 ship program, Carolina Trough, March 1989, Rice University, Houston, TX.

Seismic Reflection Programs at the University of Texas at Austin and 3D Survey off Costa Rica, March 1988, The University of Houston, Houston, TX.

Velocity Analysis for Dipping Structures, April 1987, Phillips Petroleum Company, Bartlesville, OK.

Acquisition and Analysis of Wide Angle Reflection and Refraction Seismic Data, February 1985, Geophysical Society of Tulsa, Tulsa, OK.

Acquisition and Analysis of Wide Angle Reflection and Refraction Seismic Data, November 1984, Shell Development Company, Houston, TX.

Acquisition and Analysis of Wide Angle Reflection and Refraction Seismic Data, November 1984, University of Houston, Houston, TX.

PROPOSAL REVIEW PANEL

Peer review panel Small Business Innovation Research/Small Business Technology Transfer, National Science Foundation, September 2000.

Department of Geological Sciences Activities

COMMITTEES

- 1988 - 2000 Admissions and Support Committee
- 1983 - present Budget Council
- 1989 - 1992 Ad Hoc - Department of Geological Sciences/Institute for Geophysics Relations

COURSES TAUGHT

Fall Semester

- GEO 325K/383D - Computational Methods in Geological Sciences
- GEO 391- Seismic Migration and Inversion I
- GEO 394 - Research in Geophysics

Spring Semester

- GEO 384S - Data Processing II
- GEO 391- Seismic Migration and Inversion II
- GEO 394 - Research in Geophysics

GRADUATE SUPERVISION

Currently Co-supervisor of the following PhD candidates:

Will Burnett

A General Transform for Reversible Seismic Data Processing by Nonstationary Filtering

Advisors: Stoffa / Fomel, Ent. Fall '07

Vladimir Bashkardin

Slope tomographic method in an Eulerian framework for seismic macro-velocity estimation

Advisors: Stoffa / Fomel, Ent. Fall '07

Alireza Shahin

Time Lapse Seismic Response to Production

Advisors: Stoffa / Tatham, Ent. Spring '06

Currently serving on the following PhD committees:

Mohammed Alhussain
Frequency Dependent Anisotropy

Xiaolei Song

.....

Jamin Greenbaum
Grounding line change in the Ross Sea, Antarctica (estimated 2012)

Supervised the following PhD candidates:

Chunlei Chu	Seismic modeling and imaging with the Fourier method: Numerical analyses and parallel implementation strategies December 2009
Armando Sena	Modeling and Imaging of Ground Penetrating Radar Data December 2004
Imtiaz Ahmed	Prestack Imaging and Velocity Analysis Offshore Nicaragua – December 2003
Abdulaziz Al-Aslani	3D Seismic Surface Multiple Attenuation: Algorithms and Analysis – Fall 2001
Junru Jiao	Residual Migration Velocity Analysis in the Plane Wave Domain: Theory and Applications – May 2001
Jean-Paul van Gestel	Structure and Tectonics of the Puerto Rico-Virgin Islands Platform and Multi-configuration Ground Penetrating Radar Data – May 2000
Vikramaditya Sen	A Seismic Survey in Antarctica, Parallel Schemes for Seismic Migration and Target Oriented Velocity Analysis – December 1998
Mehmet Tanis	Prestack Split-step Fourier Depth Migration Algorithms and Parallel Implementations on T2E – December 1998
Carlos Varela	Automated Background Velocity Estimation in 2D Laterally Varying Media – May 1996
Michael Jervis	Optimization methods for 2-D pre-stack migration velocity estimation – August 1993
Eduardo Lopes de Faria	Modeling, migration and focusing analysis in transversely isotropic media – August 1993

Jinyong Oh	A Deep-Penetration Seismic Study and Structural Interpretation of the Southeastern United States Continental Margin – August 1993
Livia J. Squires	Reducing Artifacts in Tomographic Velocity Reconstruction – May 1993
Warren T. Wood	Least Squares Inversion of Field Seismic Data for an Elastic 1-D Earth – May 1993
Guillaume Cambois	Surface Consistent Deconvolution in the Log/Fourier Domain – May 1991

Co-supervised the following PhD candidates:

Chaoshun Hu	Stochastic tomography and Gaussian beam depth migration – December 2008
Dhananjay Kumar	Analysis of Multicomponent Seismic Data from the Hydrate Ridge, Offshore Oregon - May 2005
Anubрати Mukherjee	Seismic Waveform Inversion in Anisotropic Media – May 2002
Georgios Tsoflias	Characterization of Near-Surface Hydrogeologic Properties Through High Frequency Electromagnetic Surveying – Fall 1999
Faqi Liu	Free Surface Multiple Elimination Operators and their Applications – August 1999
Faruq Akbar	Pre-stack 2-D and 3-D Depth Migration in the τ -p Domain – August 1997
Carlos Calderon-Macias	Artificial Neural Systems for Interpretation and Inversion of Seismic Data – August 1997
Ganyuan Xia	Prestack Migration and AVO Inversion – August 1997
Raghu Chunduru	Global and Hybrid Optimization in Geophysical Inversion – May 1996

Served on the following PhD committees:

- Tiancong Hong Uncertainties in Reservoir Characterization Using Seismic Data – May 2008
- Irina Filina Geophysical investigations of subglacial lakes Vostok and Concordia, East Antarctica – December 2007
- Rishidev Bansal Seismic Characterization of Fractured Reservoirs – May 2007
- Jason E. Gumble Complete Anisotropic Analysis of Three Component Seismic Data Related to the Marine Environment and Comparison to Nine Component Land Seismic Data – December 2006
- Chandan Kumar Parameter Inversion for Seismic Anisotropy – December 2006
- Celso A.M. Neto Migração Pre-Empilhamento em Profundidade Utilizando Ondas Planas – August 2004 (Universidade Federal da Bahia, Salvador, Bahia, Brazil)
- Chengshu Wang Joint Inversion of P- and S-waves: Estimation of Seismic Velocity Structure and Density of Gas Hydrate-bearing Sediments, Offshore Oregon – June 2003
- Eric M. Matzel Seismic Structure of the Upper Mantle Beneath Crotons – April 2002
- J.W. Schoolmeesters Three-Dimensional Processing of Marine Seismic Data by Spectral Decomposition, Delft University of Technology – Spring 2001
- Salem G. Al Juhani Data Integration for Reservoir Characterization: A Central Arabian Oil Field – May 1999
- Rafael E. Banks Time Harmonic Field Electric Logging – August 1998
- Barker, Daniel H.N. Geophysical Investigation of an Extending Marginal Basin in a Convergent Plate Margin Setting – Bransfield Strait/Antarctic Peninsula: its Crustal Structure, Tectonic Evolution, and Implications for Andean Orogenesis – May 1997
- Duk Kee Lee The Upper Mantle Structure Beneath the Colorado Rocky Mountains and the East Pacific Rise – May 1996
- Ran Zhou High Velocity Zone Beneath the Southern Tibetan Plateau and Fast Global Optimization of Earthquake Source Parameters – May 1996
- Xiao-Yang Ding Seismic Structure of the Deep Kurile Subduction Zone – May 1995
- György Marton Jurassic Evolution of the Southeastern Gulf of Mexico – May 1995

James Layton Simmons	Practical Seismic Inversion – May 1993
Steven J. Cardimona	Studies in Seismic Scattering – May 1992
Mark James Graebner	Generalized Linear Inversion in a Transversely Isotropic Solid – May 1991
Nikolaos Bernitsas	Traveltime Inversion, Modeling and Interpretation of Fault Surface Reflections – December 1990
Christopher Jude Finn	Travel Time Inversion in Three-Dimensional, Inhomogeneous Media – December 1990
William Corso	Seismic Stratigraphy of Lower Cretaceous Carbonate Platforms, Florida and Campeche Banks – December 1987
Tracy Joseph Stark	Information from Deep Water Seismic Reflection Data: LASE Line 2 – August 1986

Supervised the following MA candidates:

Ali M. Aljadher	Imaging of R3 Profile of Chicxulub Offshore Seismic Data, For Better Mapping the Deformation Pattern of the Chicxulub Impact Crater – Spring 2008
Hao Xun	A 3-D Seismic Investigation of the Distribution of Gas Hydrate and Free Gas and Their Relationship to the Structure and Stratigraphy of Hydrate Ridge – Summer 2007
Saleh Al-Saleh	Processing and imaging of multi-component ocean bottom cable data in plane wave domain – Summer 2001
John Stachowiak	The Nature and Causes of Backstop Deformation in the Northern Lesser Antilles Subduction Zone – May 2000
Stefan Paul Muszala	Magnetics of the Puerto Rico Trench and Aeromagnetics of the North Slope of Alaska – December 1998
Matt Ralston	Analysis of the COCORP Texas Line – May 1994
Mehmet C. Tanis	A Comparison of Migration Methods in Laterally Varying Media – May 1993

- Hugh W. Winkler Some Strategies for Linear Inversion – May 1992
- Walter P. Kessinger, III 2-D and 3-D Migration Comparisons from the Costa Rica 3-D Survey – May 1991
- Paul S. Rihard Seismic Investigations of Two Proposed Nuclear Waste Repositories – May 1990
- Warren T. Wood One and Two-Dimensional Velocity Inversion in the Domain of Intercept Time and Ray Parameter: An Example in the Nankai Trough – August, 1989

Co-supervised the following MA candidates:

- Stephan Clark Non-volcanic Rifted Margin, Offshore Portugal: An Integrated MCS and OBS Study – December 1999
- Lis Könnecke Early Development of the Southern Kerguelen Plateau (Indian Ocean) from Ocean Bottom Seismograph and Multichannel Seismic Reflection Data – December 1997
- Eddy C. Luhurbudi Processing a High Resolution 3D Survey of the Shallow Subsurface on the Continental Shelf of New Jersey – May 1997
- Kriyanti Setiyono A Comparative Study of Multiple Suppression Methods – May 1996

Served on the following MA committees:

- Trevor J Aitken Cenozoic Stratigraphic and Tectonic History of the Grenada and Tobago Basins as Determined From Marine Seismic Data, Wells, and Onland Geology - 2005
- David L. Gorney Chronology of Cenozoic Tectonic Events in Western Venezuela and the Dutch Antilles Based on Integration of Offshore Seismic Reflection Data and Onland Geology - 2005
- Erick Leuro GIS compilation of geologic, geophysical, and remote sensing data from St. Elias Mountains, southern Alaska - 2004
- Paulo Ricardo Santos Inversão Elástica 1-D Utilizando Algoritmos Genéticos Universidade Federal da Bahia – December 1997
- Timothy J. Hoar Altimetric Observations of Oceanic Response to Atmospheric Forcing – December 1993

While at the Universidade Federal da Bahia, Salvador, Bahia, Brazil (July 1985–July 1986) as a Visiting Professor, I supervised 12 MSc. students and the following PhD Candidates:

Raimundo Mesquita de Luna Freire

Migração Por Mudança De Fase Em Duas Etapas
(Defense – December, 1987)

Reynam Da Cruz Pestana

Deconvoluçã Na Presença De Ruido Coerente De
Alta Amplitude ("Groundroll")(Defense –
December, 1987)

Institute for Geophysics Activities

COMMITTEES

9/94 - 2008	Director
1990 - 1995	UT/TAMU Joint Advisory Council for Marine Programs
1989 - 1991	Ad Hoc - Dept. of Geological Sciences/Institute for Geophysics Relations
1988 - 1994	Associate Director
1988 - 1990	Ad Hoc - New Ship
1988 - 1994	Ship & Equipment (Chairman, 1990 - 92)
1983 - present	Budget Council
1983 - 1994	Science Council (Chairman, 1984)
1983 - 1987	Computer Committee

Postdoctoral Fellows Sponsored:

Armando Sena University of Texas at Austin	November 2007 -
Long Jin China Petroleum University	June 2006 – August 2008
Sanjeev Kumar Kurukshetra Univeristy, India	October 2006 – February 2007
Youlong Xia University of Munich	December 2001 – December 2003
Qiaozhen Mu Peking University	October 2001 – November 2003
Hyeong–Tae Jou Korea Ocean Research & Development Institute Seoul, Korea	October 1998 – September 1999

Reynam Pestana
University of Bahia
Salvador, Bahia, Brazil

January 1998 – January 1999

Phil Bording
University of Tulsa
Tulsa, Oklahoma

August 1995 – August 1997

Jay Pulliam
University of California at Berkeley
Berkeley, California

January 1995 – January 1997

Milton Porsani
University of Bahia
Salvador, Bahia, Brazil

September 1992 – September 1993

Eiichiro Nishiyama
University of Tokyo
Tokyo, Japan

March 1988 – December 1988

Marco A. B. Botelho
University of Bahia
Salvador, Bahia, Brazil

July 1987 – July 1989

Visiting Scholars Sponsored:

Jacira Freitas
University of Bahia
Salvador, Bahia, Brazil

November 2004 – March 2005

Milton Porsani
University of Bahia
Salvador, Bahia, Brazil

January 2001 – February 2001
January 2002 – March 2002
January 2003 – March 2003
December 2003 – February 2004

Reynam Pestana
University of Bahia
Salvador, Bahia, Brazil

January 1998 – January 1999
January 2000 – February 2000
May 2002 – June 2002
February 2005 – March 2005
December 2007 – March 2008

Hedi Poot
Delft University of Technology
The Netherlands

September 1997 – December 1997

Annejifke W. Mulder
Delft University of Technology
The Netherlands

September 1994 – November 1994

Radmila Tatalovic
Delft University
The Netherlands

January 1990 – July 1990

Rigmor Mette Elde
University of Bergen
Bergen, Norway

July 1987 – June 1988

CONTRACTS AND GRANTS RECEIVED AT THE UNIVERSITY OF TEXAS

Current Support:

Coupled Seismic and Reservoir Simulation and Inversion

Source of Support: Industry ConocoPhillips
 Total Award Amount: \$450,000
 Total Award Period Covered: 06/01/06 - 05/31/10
 Location of Project: The University of Texas at Austin

Seismic Refraction Study of the Northern Gulf of Mexico

Source of Support: Industry ExxonMobil
 Total Award Amount: \$3,267,636
 Total Award Period Covered: 03/18/10 - 12/31/12
 Location of Project: The University of Texas at Austin

RTM for TTI and Variable Density Wave Equations with Model Updating Using Seismic Waveform Inversion and Non-Linear Optimization

Source of Support: KAUST
 Total Award Amount: \$257,230
 Total Award Period Covered: 05/01/10 - 04/30/11
 Location of Project: The University of Texas at Austin

MRI: Acquisition of a Computational Facility for Geoscience Simulation and Data Interpretation (pending)

Source of Support: National Science Foundation
 Total Award Amount: \$2,300,000
 Total Award Period Covered: 10/01/10 - 09/30/13
 Location of Project: The University of Texas at Austin

Past Contracts & Grants:

“Reverse Time Migration (RTM) on Distributed Memory Parallel Computer Systems.” Paul Stoffa

\$210,496 1 Sep 08 – 31 Aug 09 2.10 mo

“Coupled Seismic and Reservoir Simulation and Inversion.” Paul Stoffa, Mrinal Sen, Robert Ferguson

ConocoPhillips \$150,000(\$450,000) 1 June 06 – 31 May 09 1.0 mo
 (JSG provided 2 year match 1 June 06 – 31 May 08)

“Data Driven Simulation of the Subsurface: Optimization and Uncertainty Estimation.” Mary Wheeler, Hector Klie, Mrinal Sen, Clinton Dawson, and Paul Stoffa

National Science Foundation \$1,100,000 1 Oct 04 – 30 Sept 07 NC

CNS-0427005

“Enhanced Seismic Data Access System for The University of Texas at Austin Institute for Geophysics.” Thomas H. Shipley and Paul L. Stoffa

National Science Foundation \$83,920 9 Sep 03 – 31 Aug 06 NC
OCE-0326679

“Interim IODP Planning.” Paul L. Stoffa and James A. Austin

National Science Foundation \$530,015 6 June 03 – 31 May 05 1.5 mo
OCE-0335224

“Data Intense Challenge: The Instrumented Oil Field of the Future.” Mary Wheeler, Clint Dawson, Malgorzata Peszynska, Mrinal K. Sen, and Paul L. Stoffa

National Science Foundation \$1,461,005 1 Sep 01 – 31 Aug 04 1.75 mo
EIA-0121523

“Air-Borne GPR Investigation of UGF Detection.” Paul L. Stoffa and Mrinal K. Sen

Department of Defense-Army \$116,679 1 June 00 – 31 May 01 NC
DAAD17-01-D0001

“SLOSEIS: Slowness Analysis, Waveform Inversion and Uncertainty Estimation in VTI Media.” Mrinal K. Sen, and Paul L. Stoffa

Joint Industry \$240,759 1 Sep 98 – 31 Aug 01 NC

“Acquisition of an Origin 2000 for Seismic Processing.” Paul L. Stoffa, Thomas H. Shipley, Mrinal K. Sen, Nathan L. Bangs, Kirk D. McIntosh, and James A. Austin, Jr.

National Science Foundation \$399,112 1 Sep 97 – 31 Aug 00 NC
OCE-9724555

“Anisotropic Earth Model Calculations.” Mrinal K. Sen and Paul L. Stoffa

Texas Higher Education
Coordinating Board \$107,157 1 Jan 96 – 31 Dec 97 NC
ARP-135

“Rock Property Estimation from Marine Seismic Data by AVO Inversion.” Mrinal K. Sen and Paul L. Stoffa

National Science Foundation \$292,980 1 Nov 95 – 31 Oct 98 2 mo.
OCE-9503412

“Pre-stack Plane Wave Kirchhoff Migration on Cray T3D.” Paul L. Stoffa and Mrinal K. Sen

Cray Research, Inc. \$60,000 1 Jan 95 – 31 Dec 95 .5 mo.

“Investigation of Upper Plate Response to Subduction Plate Morphology and Seamounts as Subduction Zone Asperities: Cooperative German, Costa Rican and United States Project.” Kirk D. McIntosh, Thomas H. Shipley, Paul L. Stoffa and Yosio Nakamura

National Science Foundation \$922,097 1 Dec 94 – 30 Nov 99 2 mo.
OCE-9402091

“Ocean Science Education in Quantitative Marine Seismology.” P.L. Stoffa

Office of Naval Research \$285,635 1 Feb 94 – 31 Jan 97 1.5 mo.
N00014-94-1-0508

“Hybrid Linear/Nonlinear Methods of Seismic Waveform Inversion.” M.K. Sen and P.L. Stoffa

Texas Higher Education \$129,519 1 Jan 94 – 31 Aug 96 1 mo.
Coordinating Board – 003658264

“SPMD Pre-stack Velocity Estimation Using PVM.” P.L. Stoffa and M.K. Sen

Cray Research, Inc. \$51,000 1 Jan 94 – 31 Dec 94 .75 mo.

“Neural Computing in Geophysics.” Mrinal K. Sen and Paul L. Stoffa

National Science Foundation \$313,469 15 Jul 93 – 30 Jun 97 3 mo.
EAR-9304417

“Seismic Traverse of the Byrd Subglacial Basin – Field Test.” I.W.D. Dalziel, P.L. Stoffa and D.D. Blankenship

National Science Foundation DPP-9119177	\$571,026	1 Jul 93 – 30 Jun 97	2 mo.
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“Timing and Comparison of Traveltime.” Paul L. Stoffa

Phillips Petroleum Company	\$18,877	1 Jul 93 – 31 Oct 94	NC
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“Prestack Migration-Inversion of Seismic Gathers.” Paul L. Stoffa and Mrinal K. Sen

Cray Research, Inc.	\$49,000	1 Jan 93 – 31 Dec 93	.5 mo.
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“Imaging of Ocean Subbottom Structure Using Swath Mapping Data.” Mrinal K. Sen and Paul L. Stoffa

Office of Naval Research N00014-92-J-6001	\$69,445	1 Mar 92 – 31 Aug 93	.75 mo.
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“Three-dimensional survey of the crust, Moho, and mantle near the East Pacific Rise.” Jan D. Garmany and Paul L. Stoffa

National Science Foundation OCE-9102368	\$664,484	1 Feb 1992 – 31 Jan 1994	2.2 mos.
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“Three dimensional seismic reflection investigation of fluid flow and structural evolution: Northern Barbados trench.” Thomas H. Shipley and Paul L. Stoffa

National Science Foundation OCE-9116172	\$497,548	1 Jan 92 – 31 Dec 94	2.5 mos.
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“Prestack migration velocity analysis in two- and three-dimensions.” Paul L. Stoffa and Mrinal K. Sen

Cray Research, Inc.	\$60,000	1 Jan 92 – 31 Dec 92	.5 mo.
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Solid Earth Exploration Research (Project SEER)

Various	\$75,000/yr	1 Aug 91 – 31 Jul 93	NC
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“Nonlinear Inversion of Plane Wave Seismograms Using Global Optimization Methods.”
Mrinal K. Sen and Paul L. Stoffa

National Science Foundation \$157,156 15 Jul 1991 – 14 Jul 1993 1.4 mos.
EAR-9105922

“Genetic Algorithms, Simulated Annealing and Nonlinear Inversion of Plane Wave
Seismograms.” Paul L. Stoffa and Mrinal K. Sen

Cray Research, Inc. \$49,500 1 Apr 1991 – 31 Mar 1992 .5 mos.

“Detecting Clathrate Concentrations Through High Resolution Seismic Velocity Analysis of
Shallow Sediments.” Paul L. Stoffa and Thomas H. Shipley

USGS \$30,000 1 Sep 90 – 31 Aug 91 NC

“Inversion of Nankai Trough High Resolution Two-ship Profile.” Paul L. Stoffa and Thomas H.
Shipley

National Science Foundation \$117,454 15 Mar 90 – 28 Feb 93 NC
OCE-9000327

“Nonlinear Elastic Inversion for the Background P-wave and S-wave Velocities.” Paul L. Stoffa

American Chemical Society \$40,000 1 Jan 90 – 31 Aug 93 .5 mo.
22411-AC2

“Determination of Rock Properties from Wide Aperture Seismic Profiles: Proposed Low-Level
Radioactive Waste.” Joe Phillips and Paul L. Stoffa

Texas Higher Education Coordinating \$88,750 1 Jan 90 – 31 Aug 92 2 mos.
Board

“Nonlinear Elastic Inversion for the Background P-Wave and S-Wave Velocities.” Paul L.
Stoffa and Jan D. Garmany

Texas Higher Education Coordinating \$150,000 1 Jan 90 – 31 Aug 92 2 mos.
Board - 003658-327

“Plane Wave Split-step Fourier Migration and Velocity Analysis.” Paul L. Stoffa

Cray Research, Inc. \$42,000 1 Jan 90 – 31 Dec 90 1 mo.

“A 3-D HUNTEC Survey of the New Jersey Shelf.” James A. Austin, Paul L. Stoffa, Thomas A. Davies

Office of Naval Research \$233,767 1 May 89 – 30 Apr 90 1.5 mos.

“Interactive Pre-stack Direct Depth Migration Velocity Analysis.” Paul L. Stoffa

Cray Research, Inc. \$42,000 1 Jan 89 – 31 Dec 89 1 mo.

“Develop and Evaluate Seismic Processing Algorithms.” Paul L. Stoffa

HARC Computer Systems and
Application Research Center \$45,000 1 Nov 88 – 31 Dec 89 NC

“A Deep-penetration Reflection Seismic Study at the Juncture of the Blake Plateau Basin, Carolina Trough, and Southeast Georgia Embayment.” Paul L. Stoffa, Dale S. Sawyer, Joseph D. Phillips, James A. Austin, Jr.

National Science Foundation \$998,674 1 Jan 88 – 31 Dec 90 4 mos.
OCE-8711300

“Multichannel Seismic Study of the Deep Structure of a Cordilleran Orogen: The Southernmost Andes.” Ian W. D. Dalziel, James A. Austin, Jr., Paul L. Stoffa

National Science Foundation \$478,634 1 Jan 88 – 31 Dec 90 3 mos.
OCE-8716557

“Angle of Incidence Pre-stack Direct Depth Migration.” Paul L. Stoffa

Cray Research, Inc. \$36,827 1 Jan 88 – 31 Dec 88 1 mo.
“3D Subsurface Model Definition and Seismic Modeling Using an Interactive Seismic Workstation.” Paul L. Stoffa

University Partnership Grant Program
Landmark Graphics Corporation \$229,725 1 Jan 88 – 31 Dec 88 NC

“Japan-United States Cooperative Study of the Relationship between Sediment Physical Properties and Subduction Processes in the Nankai Trough.” Thomas H. Shipley, Paul L. Stoffa, G. Moore (U. Tulsa), D. Karig (Cornell)

National Science Foundation \$585,751 1 Mar 87 – 28 Feb 90 4 mos.
OCE-8613774

OCE-8414864 “3D Seismic Modeling using the Split-step Fourier Method.” Paul L. Stoffa

Cray Research, Inc. \$31,600 1 Jun 86 – 31 Dec 87 1 mo.

“Downhole Seismic Profiling and Imaging for the Ocean Drilling Program: Vertical Seismic Profile Experiment Leg 104 Site 642 - Data Processing and Interpretation.” Joseph D. Phillips, Paul L. Stoffa

National Science Foundation \$66,917 1 Feb 86 – 31 Jan 88 NC

“Three-dimensional Seismic Imaging of an Accretionary Wedge: Costa Rica.” Thomas H. Shipley, Mark Cloos, Paul L. Stoffa, Milo Backus

National Science Foundation \$1,036,28 1 Jan 86 – 31 Dec 89 4 mos.
OCE-8511364

“Vertical Seismic Profile (VSP) Experiment Leg 104: Site 642 Data Processing and Interpretation.” Paul L. Stoffa and Joe D. Phillips

National Science Foundation \$55,808

“Implement ODP Underway Navigation.” Paul L. Stoffa

Texas A&M University \$12,650

“Develop a Digital Seismic Data Acquisition and Processing System for the Ocean Drilling Program.” Paul L. Stoffa

Texas A&M University \$51,496

“Enhanced Crustal Imagery Through Compensation of Lateral System and Geophysical Variation.” Milo Backus, Paul L. Stoffa, Stark

National Science Foundation \$83,000

“Deaf Smith and Swisher Counties Seismic Data Study.” Art Maxwell, Paul L. Stoffa, and Charles Denham

Bureau of Economic Geology \$95,300

PUBLISHED ABSTRACTS

- Chu, C. and P. L. Stoffa, 2010, Acoustic Anisotropic Wave Modeling Using Normalized Pseudo-Laplacian, Expanded Abstracts, Volume 29, 80th Annual International Meeting, Denver, Society of Exploration Geophysicists
- Chu, C. and P. L. Stoffa, 2010, Elastic Wave Modeling with the Pseudo-analytical Method on Staggered Grid, Expanded Abstracts, Volume 29, 80th Annual International Meeting, Denver, Society of Exploration Geophysicists
- Chu, C. and P. L. Stoffa, 2010, Frequency Domain Modeling Using Implicit Spatial Finite Difference Operators, Expanded Abstracts, Volume 29, 80th Annual International Meeting, Denver, Society of Exploration Geophysicists
- Pestana, R. C. and P. L. Stoffa, 2010, Phase-shift plus interpolation time-stepping method for reverse time migration, Expanded Abstracts, Volume 29, 80th Annual International Meeting, Denver, Society of Exploration Geophysicists
- Shahin, A and P. L. Stoffa, R. H. Tatham 2010, Timelapse CSEM analysis of a shaly sandstone simulated by comprehensive petro-electric modeling, Expanded Abstracts, Volume 29, 80th Annual International Meeting, Denver, Society of Exploration Geophysicists
- Shahin, A and R. H. Tatham, P. L. Stoffa, K. T. Spikes, 2010, Comprehensive petro-elastic modeling aimed at quantitative seismic reservoir characterization and monitoring, Expanded Abstracts, Volume 29, 80th Annual International Meeting, Denver, Society of Exploration Geophysicists,
- Chu, C., P.L. Stoffa, R. Seif, 2009, High-order rotated staggered finite difference modeling of 3D elastic wave propagation in general anisotropic media, SEG Annual Meeting, Houston.
- Chu, C., P.L. Stoffa, R. Seif, 2009, 3D Elastic wave modeling using modified high-order time stepping schemes with improved stability conditions, SEG Annual Meeting, Houston.
- Chu, C., P.L. Stoffa, R. Seif, 2009, 3D Seismic modeling and reverse-time migration with the parallel Fourier method using non-blocking collective communications, SEG Annual Meeting, Houston.
- Sena, A., M. Sen, P. Stoffa, R. Seif, L. Jin, 2009, Joint inversion of time-lapse seismic and production data using VFSA with Local Thermal Regulation and pilot point parameterization, SEG Annual Meeting, Houston.
- Sena, A., P. Stoffa, M. Sen, R. Seif, 2009, Assessing the value of time-lapse seismic data in joint inversion for reservoir parameter estimation in an oil reservoir subjected to water flooding recovery: a synthetic example, SEG Annual Meeting, Houston.
- Shahin, A., P.L. Stoffa, R.H. Tatham, D. Sava, 2009, Multicomponent seismic time-lapse cross-plot and its applications, SEG Annual Meeting, Houston.

- Stoffa, P.L., R.C. Pestana, 2009, Numerical solution of the acoustic wave equation by the rapid expansion method (REM) – A one step time evolution algorithm, SEG Annual Meeting, Houston.
- Pestana, R.C., P.L. Stoffa, 2009, Rapid expansion method (REM) for time-stepping in reverse time migration (RTM), SEG Annual Meeting, Houston.
- Stoffa, P.L., R.C. Pestana, 2009, Numerical solution of the acoustic wave equation by the rapid expansion method (REM) – A one step time evolution algorithm, 11th International Congress of the Brazilian Geophysical Society, Salvador, Brazil, August 24-28, 2009.
- Pestana, R.C., P.L. Stoffa, 2009, Rapid expansion method (REM) for time-stepping in reverse time migration (RTM), 11th International Congress of the Brazilian Geophysical Society, Salvador, Brazil, August 24-28, 2009.
- Sena, A.R., P.L. Stoffa, M. Sen, L. Jin, R. Seif, 2009, 4-D seismic: When should we acquire the next seismic survey? AAPG Annual Convention and Exhibition, Denver, June 7-10, 2009.
- Jin, L., P.L. Stoffa, M.K. Sen, 2009, Stochastic inversion for reservoir properties using parallel learning-based VFSA and pilot point parameterization, SPE Reservoir Simulation Symposium, Woodlands, Tx.
- Hu, C., P. Stoffa, K. McIntosh, 2008, First arrival stochastic tomography: Automatic background velocity estimation using beam semblances and VFSA, SEG Annual Meeting, Las Vegas.
- Jin, L., M.K. Sen, P.L. Stoffa, 2008, One-dimensional prestack seismic waveform inversion using Ensemble Kalman Filter, SEG Annual Meeting, Las Vegas.
- Shahin, A., P.L. Stoffa, R.H. Tatham, D. Sava, 2008, Sensitivity analysis of multicomponent seismic attributes to fluid content and pore pressure, SEG Annual Meeting, Las Vegas.
- Chu, C., P.L. Stoffa, 2008, A pseudospectral-finite difference hybrid approach for large-scale seismic modeling and RTM on parallel computers, SEG Annual Meeting, Las Vegas.
- Chu, C., P.L. Stoffa, 2008, Parallel seismic wave simulations on Lonestar and Ranger, 2nd Annual Scientific Software Days, The University of Texas at Austin.
- Sen, M.K., P.L. Stoffa, L. Jin, R. Seif, A. Sena, 2008, Stochastic inversion for reservoir parameters using time-lapse seismic and well production data, Applied 4D Seismic: Reservoir Monitoring, Model Updating, and Management – SPE/AAPR/SEG Applied Technology Workshop, Galveston.
- Jin, L., M.K. Sen, P.L. Stoffa, 2008, Data fusion: a possible way to reduce uncertainty in reservoir characterization, SEG Development and Production Forum, Austin.

- Shahin, A., P. L. Stoffa, R.H. Tatham, D. Sava, 2008, Uncertainty in rock physics modeling: Impact on seismic reservoir characterization and monitoring, SEG Development and Production Forum, Austin.
- Shahin, A., P.L. Stoffa, R.H. Tatham, D. Sava, 2008, A statistical approach to quantify the detectability of the dynamic reservoir properties using multi-component time-lapse seismic attributes, SEG Development and Production Forum, Austin.
- Shahin, A., P.L. Stoffa, R.H. Tatham, D. Sava, 2008, Sensitivity analysis of multicomponent seismic attributes to fluid content and pore pressure, SEG Development and Production Forum, Austin.
- Chu, C., P.L. Stoffa, 2008, Parallel seismic modeling using the pseudospectral method on Marmousi2, 70th EAGE Conference and Exhibition, Rome.
- Jin, L., M. Sen, P. Stoffa, R. Seif, A. Sena, 2008, Stochastic inversion for reservoir properties using time-lapse seismic and well production data, 70th EAGE Conference and Exhibition, Rome.
- Jin, L., M.K. Sen, P.L. Stoffa, R.K. Seif, 2007, Optimal model parameterization in stochastic inversion for reservoir properties using time-lapse seismic and production data, SEG Annual Meeting, San Antonio.
- Jin, L., M.K. Sen, P.L. Stoffa, 2007, Fusion based classification method and its application, SEG Annual Meeting, San Antonio.
- Jin, L., M.K. Sen, T. Hong, P.L. Stoffa, 2007, Joint estimation of porosity and saturation by combining a rock physics model and constrained pre-stack seismic waveform inversion, SEG Annual Meeting, San Antonio.
- Hong, T., M.K. Sen, P.L. Stoffa, H. Klie, S.G. Thomas, A. Rodriguez, M.F. Wheeler, 2007, Integrated time-lapse seismic inversion for reservoir petrophysics and fluid flow imaging, SEG Annual Meeting, San Antonio.
- Hu, C., M.K. Sen, P. Stoffa, K. McIntosh, 2007, Plane wave gaussian beam prestack depth migration, SEG Annual Meeting, San Antonio.
- Chu, C, P.L. Stoffa, 2006, Seismic modeling in the plane wave domain using an implicit finite difference scheme, Sixteenth Annual Industrial Affiliates Meeting, Center for Subsurface Modeling, The University of Texas at Austin.
- Hu, C., K. McIntosh, P. Stoffa, 2006, Voronoi cell based staggered grid SH wave numerical simulation, SEG Annual Meeting, New Orleans.
- Hu, C., K. McIntosh, H van Avendonk, P. Stoffa, 2006, Hybrid ray tracer and amplitude calculation with finite difference, graph theory and ray bending, SEG Annual Meeting, New Orleans.

- Sen, M.K., P.L. Stoffa, 2006, True Amplitude Migration-Inversion in Phase Space, SPG meeting, Kolkata, India.
- Gai, X., J. Rungamornrat, H. Klie, W. Bangerth, M. F. Wheeler, P. L. Stoffa, M.K. Sen, and R. Seifoullaev, 2005, Fully integrated reservoir flow, geomechanics and seismic modeling: A tool for better reservoir characterization and geomechanical prediction using 4D seismic, SEG Annual Meeting, Houston.
- Stoffa, P.L., M.K. Sen, R. Seifoullaev, H. Klie, X. Gai, W. Bangerth, J. Rungamornrat, M.F. Wheeler, 2005, An analysis of flow-simulation scales and seismic response, SEG Annual Meeting, Houston.
- Stoffa, P.L., M.K. Sen, R.K. Seifoullaev, R. Pestana, J.T. Fokkema, 2005, Double plane wave Kirchhoff depth migration, Ninth International Congress of the Brazilian Geophysical Society, Salvador, Brazil.
- Seifoullaev, R.K., P.L. Stoffa, M.K. Sen, 2005, Use of reciprocity in a double plane wave Kirchhoff depth migration, Ninth International Congress of the Brazilian Geophysical Society, Salvador, Brazil.
- Jackson, C.S., M.K. Sen, and P.L. Stoffa, 2004, Statistical inversion for quantifying uncertainties in climate prediction, Eos Trans. AGU, 85(47), Fall Meet. Suppl., Abstract NG31B-0876.
- Wang, F., C.S. Jackson, P.L. Stoffa, M. Fluegel, P. Chang, 2004, A stochastic bayesian approach to identify the dynamical regimes of ENSO, Eos Trans. AGU, 85(47), Fall Meet. Suppl., Abstract A14B-06.
- Xun, H., N.L. Bangs, P.L. Stoffa, 2004, Estimation of free gas saturation using AVO analysis on 3D seismic data at south Hydrate Ridge, Cascadia accretionary complex, Eos Trans. AGU, 85(47), Fall Meet. Suppl., Abstract OS41C-0492.
- Sena, A.R., M.K. Sen, and P.L. Stoffa, 2004, Modeling of ground penetrating radar data in stratified media, SEG Annual Meeting, Denver.
- Sena, A.R., P.L. Stoffa, and M.K. Sen, 2004, Migration of ground penetrating radar data in heterogeneous and dispersive media, New Strategies for European Remote Sensing, Proceedings of the 24th EARSel Symposium, Dubrovnik, Croatia, 711-719.
- Ahmed, I., P.L. Stoffa, M.K. Sen, K.D. McIntosh, 2003, Residual migration velocity analysis in the offset-depth domain via the ray parameter-depth domain, SEG Annual Meeting, Dallas.
- Sena, A.R., P.L. Stoffa, and M.K. Sen, 2003, Split-step fourier migration of ground penetrating radar data, SEG Annual Meeting, Dallas.
- Nowack, R.L., M.K. Sen, and P.L. Stoffa, 2003, Gaussian beam migration for sparse common-shot and common-receiver data, SEG Annual Meeting, Dallas.

- Roy, L., M.K. Sen, D. Blankenship, P.L. Stoffa, and T. Richter, 2003, Gravity inversion and uncertainty analysis using simulated annealing: An application over Lake Vostok, East Antarctica, 8th International Congress of The Brazilian Geophysical Society, Rio de Janeiro, Brazil.
- Aldunate G.C., R.C. Pestana & P.L. Stoffa, 2003, Migracao sismica 2D pre-empilhamento em profundidade com os metodos "Split-step", "Split-step" hibrido e "Split-step" – PSPI: Uma Comparacao, 8th International Congress of The Brazilian Geophysical Society, Rio de Janeiro, Brazil.
- Stoffa, P. and M. Porsani, 2003, Residual migration analysis: VFSA and LI, 8th International Congress of The Brazilian Geophysical Society, Rio de Janeiro, Brazil.
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