

David Craig Pearson, Ph.D.
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Education

Bachelor of Science in Geology, University of Texas of the Permian Basin, Odessa, Texas

Master of Science in Exploration Geophysics, Southern Methodist University, Dallas, Texas

Doctor of Philosophy in Geophysics, Southern Methodist University, Dallas, Texas

Work Experience

Ranch Manager
Upton, Crockett and Reagan Counties, Texas
January 2006 to present

Technical Staff, Department of Defense Program Office
Los Alamos National Laboratory, Los Alamos, N.M.
June 2004 to June 2006

Acting Deputy Division Leader, Earth and Environmental Sciences Division
Los Alamos National Laboratory, Los Alamos, N.M.
February 2002 to June 2002 and April 2003 to June 2004

Deputy Group Leader, Geophysics Group, Earth and Environmental Sciences Division
Los Alamos National Laboratory, Los Alamos, N.M.
June 2000 to April 2003

Technical Staff Member, Geophysics Group
Nuclear Explosion Monitoring Research and Engineering Program
Earth and Environmental Sciences Division
Los Alamos National Laboratory, Los Alamos, N.M.
December 1999 to September 2001

Technical Staff Team Leader, Geophysics Group
Earth and Environmental Sciences Division
Los Alamos National Laboratory, Los Alamos, N.M.
May 1993 to December 1999

Graduate Research Assistant, Geology Department
Southern Methodist University, Dallas, Texas
January 1989 to May 1993

Research Geophysicist, Energy Research and Service Department
Teledyne Geotech, Garland, Texas
September 1985 to January 1989

Summer Research Geophysicist
ARCO Resource Technology, Plano, Texas
May 1985 to August 1985

Special Operator, Hydraulic Frac Treater, Acid Treater, Cementer, Driver
Halliburton Services, Big Spring, Texas
May 1978 to June 1982

Professional Society Memberships

American Geophysical Union
Seismological Society of America
American Association of Petroleum Geologists
International Society of Explosives Engineers

Organizations and Activities

Vice President, Upton County Water District

Published Works

Stump, B.W. and D.C. Pearson, 1996. Design and Utilization of a Portable Seismic/Acoustic Calibration System, Conferences on Disarmament, Group of Scientific Experts, United States Delegation, GSE/US/114, May 1996.

Stump, B.W., D.P. Anderson and D.C. Pearson, 1996. Physical Constraints on Mining Explosions, Synergy of Seismic and Video Data with Three Dimensional Models, Seismological Research Letters, 67, 9-24.

Stump, B.W., D.C. Pearson and R. Reinke, 1999. Source Comparisons Between Nuclear and Chemical Explosions Detonated at Rainier Mesa, Nevada Test Site, Bulletin of the Seismological Society of America, 89, 409-422.

Phillips, W.S., D.C. Pearson X. Yang and B.W. Stump, 1999. Aftershocks of an Explosively Induced Mine Collapse at White Pine, Michigan, Bulletin of the Seismological Society of America, 89, 1575-1590.

Yang, X., B.W. Stump and D.C. Pearson, 1999. Moment Tensor Inversion of Single-hole Mining Cast Blast, Geophysical Journal International, 139, 679-690.

Bonner, J.L., D.C. Person, W.S. Phillips and S.R. Taylor, 2001. Shallow Velocity Structure at the Shagan Test Site in Kazakhstan, *Pure and Applied Geophysics*, 158, 2017-2039.

Hedlin, M.H., B.W. Stump, D.C. Pearson and X. Yang, 2002. Identification of Mining Blasts at Mid- to Far- Regional Distances using Low Frequency Seismic Signals, *Pure and Applied Geophysics*, v159, No. 4, 831-864.

Stump, B.W., M.H. Hedlin, D.C. Pearson and V. Hsu, 2002. Characteristics of Mining Explosions at Regional Distances, *Reviews of Geophysics*, 40(4), 1011, doi:10.1029/1998RG000048, 2002.

Stump, B.W. and D.C. Pearson, 2002. Source Scaling of Single-Fired and Delay-Fired Explosions Constrained by In-Mine and Regional Seismograms, *Proceedings of the Twenty-Eight Annual Conference on Explosives and Blasting Techniques*, February 10-12, 2002, Las Vegas, NV, International Society of Explosives Engineers, Vol. 2, p. 243-252.

Bonner, J.L., D.C. Pearson and S. Blomberg, 2003. Azimuthal Variation of Surface Wave Energy Form Cast Blasts in Northern Arizona, *Bulletin of the Seismological Society of America*, 93, 724-726.

Stump, B.W. , D.C. Pearson and V. Hsu, 2003. Source Scaling of Contained Chemical Explosions as Constrained by Regional Seismograms, *Bulletin of the Seismological Society of America*, 93, 1212-1225.

Awards and Recognitions

Salutatorian, McCamey High School, McCamey, Texas, 1976

Outstanding Geology Graduate, Southern Methodist University, 1983

Who's Who Among American Universities and Colleges, 1984

First Graduate of Exploration Geophysics degree program, Southern Methodist University, 1985