

CURRICULUM VITAE

JOHN D. WEST

3370 N. HAYDEN ROAD #123-179
SCOTTSDALE, AZ 85251
E-MAIL: JOHN.D.WEST@ASU.EDU

WEB: WWW.ANISOTROPY.NET
PHONE: 1.928.978.1825
FAX: 1.480.945.2631

RESEARCH INTERESTS

Seismology
Upper mantle dynamics
Seismic data management software
Small-footprint seismic instrument design

EDUCATION

Arizona State University	Seismology (MS degree program, Advisor: Matt Fouch)	2006-present
New Mexico State University	Geology (course work)	2005
North Carolina State University	Electrical & Computer Engineering (course work)	1983-1987
Rose-Hulman Institute of Technology	Electrical Engineering (BSEE)	1979

EMPLOYMENT

2007-2008	Graduate Research Assistant, Arizona State University
1999-present	President, Silverheels Software, Scottsdale, AZ
1994-1999	Independent Software Developer
1995-1996	Consultant, Financial Dynamics, Inc., Raleigh, NC
1986-1996	President, Network Group, Inc., Raleigh, NC
1989-1994	President, Environmental Sensing Devices, Inc., Raleigh, NC
1984-1986	Project Engineer, FiberLAN, Inc., Research Triangle Park, NC
1981-1984	Development Engineer, AMP, Inc., Winston-Salem, NC
1981	Engineer II, Teledyne Brown Engineering, Huntsville, AL
1979-1981	Instrumentation Engineer, Pratt & Whitney Aircraft Group, West Palm Beach, FL

FIELD EXPERIENCE

2006-2009	High Lava Plains Continental Dynamics seismic experiment (HLP)
-----------	--

PROFESSIONAL AFFILIATIONS

American Geophysical Union
Geological Society of America

PROFESSIONAL CREDENTIALS

Professional Engineer (PE), registered in North Carolina and Louisiana
Microsoft Certified Systems Engineer

PATENTS

US Patent #5,074,053, Magnetically Actuated Linear Position Sensor

US Patent #4,477,132, Connector for Twin Axial Cable

PUBLICATIONS

West, J.D., M.J. Fouch, J.B. Roth, and L.T. Elkins-Tanton, Vertical mantle flow associated with a lithospheric drip beneath the Great Basin, *Nature Geoscience*, **2**, 439 - 444 (2009) doi:10.1038/ngeo526.

PRESENTATIONS

Fouch, M.J., and **J.D. West**, Plate tectonics and the mantle flow field beneath western North America, EarthScope National Meeting, 2009.

West, J.D., M.J. Fouch, J.B. Roth, and L.T. Elkins-Tanton, Vertical mantle flow associated with a lithospheric drip beneath the Great Basin, EarthScope National Meeting, 2009.

Holt, W. E., M.J. Fouch, E. Klein, **J.D. West**, and L.M. Flesch, GPS Measured Contraction in Nevada in the Vicinity of the Great Basin Mantle Drip, EarthScope National Meeting, 2009.

Zandt, G., E. Humphreys, M.J. Fouch, and **J.D. West**, The role of toroidal mantle flow in the tectonic evolution of the western US: Emerging evidence from Earthscope, EarthScope National Meeting, 2009.

James, D.E., M.J. Fouch, **J.D. West**, and J. Johnson, High Lava Plains Seismic Experiment: Lessons from a major broadband deployment, SSA National Meeting, 2009.

Beghein, C., A. Snoke, M.J. Fouch, and **J.D. West**, Azimuthal anisotropy from surface waves in the Great Basin, *Eos Trans. AGU*, **89(53)**, Fall Meet. Suppl., Abstract DI13A-1676, 2008.

Fouch, M.J., and **J.D. West**, High-resolution imaging of the mantle flow field beneath western North America, *Eos Trans. AGU*, **89(53)**, Fall Meet. Suppl., Abstract U53C-06, 2008.

Fouch, M.J., F-C. Lin, M.H. Ritzwoller, and **J.D. West**, Seismic azimuthal anisotropy beneath the western United States from ambient noise tomography and shear wave splitting, *Eos Trans. AGU*, **89(53)**, Fall Meet. Suppl., Abstract S32B-01, 2008.

West, J.D., M.J. Fouch, J.B. Roth, and L. Elkins-Tanton, Geophysical detection of lithospheric delamination beneath the central Great Basin, United States, IRIS National Meeting, Stevenson, WA, 2008.

West, J.D., and M.J. Fouch, Shear-wave splitting in the Great Basin, *Eos Trans. AGU*, **88(52)**, Fall Meet. Suppl., Abstract S41B-0556, 2007.

West, J.D., and M.J. Fouch, Shear-wave splitting in the Great Basin, EarthScope National Meeting, Monterey, CA, 2007.

MANUSCRIPTS IN PREPARATION

Fouch, M.J., and **J.D. West**, Mantle dynamics beneath the western United States, in preparation, 2009.

Holt, W., M.J. Fouch, E. Klein, and **J.D. West**, GPS measured contraction in Nevada above the Great Basin mantle drip, to be submitted to *Geology*, 2009.