

Curriculum Vitae

William Prescott, Ph.D., Geophysicist

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Education

1980 PhD Stanford University, Geofísica
1971 MA Univ, of Calif., Berkeley, Matematica
1967 BA Middlebury College, Matematica y Física

Professional Experience

2008-present Geophysicist, Comisión Nacional Forestal, Guadalajara, México
1971-2002 Research Geophysicist, US Geological Survey
1968-1970 U.S. Army, 25th Div., Artillery, Vietnam
1963-1967 Various land surveying positions

Selected Contributions and Honors

Honorary Fellow of the American Geophysical Union
Meritorious Service Award, US Department of Interior
Contributions to understanding deformation in US particularly in San Francisco area
Developed a variety of methods for analyzing crustal deformation data
Developed techniques for processing and displaying geodetic data

Management Experience

2002-2007 President, UNAVCO: \$30M+ budget, 100+ employees, federally funded non-profit consortium
1998-2002 President/Pres.-Elect, Geodesy Section, American Geophysical Union
1975-2002 Research scientist and leader of a group operating a GPS processing and analysis facility
1996-1997 Chairman, Southern California Integrated GPS Network
1989-1994 Chief, Branch of Earthquake Geology and Geophysics, Program Manager, USGS

Information Technology Experience

2008-present Java, javascript, bash script, ajax, servlet development
1992-2002 Network administration, DNS development and management
1985-2002 Perl, C shell development, Unix system administration
1963-2002 Program development. Fortran y Java
1985-2002 Development and maintenance, Fortran programas, shell scripts, Perl scripts and Java programs for treatment of Global Positioning System (GPS) data

Languages

English (native language) and spanish (reading and writing 50%. speaking and listening 30%)
Java (4 years); HTML (7 years); Perl (12 años); C-Shell (12 años); Fortran (35+ años);
DBs (4th Dimension, SQL)
Systems Solaris Unix; MacOS X; Linux; Windows XP.

Computadora Proyectos Representivos

- INFyS Lead architect, programmer for development of a web site providing Google map based access to CONAFOR forest data base. Utilizes java servlets, javascript back end and google map front end.
- GP Lead architect, programmer, and team leader for development of GP (GPS Processing). GP is a collection of hundreds of shell scripts and perl programs that take field GPS observations and process them automatically to time series and velocity maps on web servers. Satellite modeling and parameter estimation is done by a set of JPL programs. GP is a wrapper that prepares input for these routines and manipulates results.
<http://quake.wr.usgs.gov/QUAKES/geodetic/gps>
- EHZDNS Lead architect, programmer and team leader for a group maintaining USGS web servers. We handled a few 100,000 hits per day between earthquakes and millions of hits/hour after earthquakes. I was responsible for system design and for content management. I developed EHZDNS (see references), a low cost system for providing DNS service to web servers with load sharing and failure protection. <http://quake.wr.usgs.gov>

Scientific Investigations (Selected Publications)

For complete list of publications (234 papers y abstracts) see:
<http://www.theprescotts.com/will/ReferenceList.html>

- Gan, W. and W. H. Prescott, Crustal Deformation Rates in the Eastern and Central U.S. Geophysical Research Letters 28, 3733-3736, 2001.
- Prescott, W.H., J.C. Savage, J.L. Svarc, and D. Manaker, Deformation across the Pacific-North America plate boundary near San Francisco, California, J. Geophys. Res., 106, 6673-6682, 2001.
- Celebi, M., W. Prescott, R. Stein, K. Hudnut, and J. Behr, GPS Monitoring of Dynamic Behavior of Long-Period Structures, Earthquake Spectra, 15 (1), 55-66, 1999.
- Prescott, W., Bock, Y., Hudnut, K., Watkins, M., Agnew, D., Donnellan, A., Fenske, L., Hager, B., Jackson, D., Mori, J., D'Onofrio, D., Young, B., Webb, F., and Wyatt, F., Operations plan for the Southern California Integrated GPS Network, Fiscal Year, USGS Open-File Report, 96-283, p. 86 pp, 1996.
- Prescott, W.H., Yes: The L.A. array will radically improve seismic risk assessment, EOS, Transactions, American Geophysical Union, 77(43), p. 419, 427, 1996.
- King, N.E., H. Johnson, W.H. Prescott, M.H. Murray, J.L. Svarc, R. Clymer, and B. Romanowicz, Estimates of GPS and monument noise from the Bay Area Regional Deformation (BARD) permanent array, EOS, Transactions, American Geophysical Union, 77 (46), F153, 1996.
- Prescott, William H., James L. Davis, and Jerry L. Svarc, Global Positioning System measurements for crustal deformation, Precision and accuracy, Science, 244, 1337-1340, 1989.
- Davis, James L., William H. Prescott, Jerry L. Svarc, and Karen L. Wendt, Assessment of

- Global Positioning System measurements for studies of crustal deformation, *J. Geophys. Res.*, 94(B10), 13635-13650, 1989.
- Prescott, W.H., and Yu, Shui-Beih, Geodetic measurement of horizontal deformation in the northern San Francisco Bay region, California, *J. Geophys. Res.*, 91(B7), 7475-7484, 1986.
- Prescott, W.H., Savage, J.C., and Kinoshita, W.T., Strain accumulation rates in the western United States between 1970 and 1978, *J. Geophys. Res.*, 84(B10), 5423-5435, 1979.
- Prescott, W.H., An extension of Frank's method for obtaining crustal shear strains from survey data, *Bull. Seism. Soc. Amer.*, 66(11), 1847-1853, 1976.

Recreation

Running (completed 43 marathons), hiking, motorcycles, travel, baking and cooking.