The 1906 Earthquake — The Birth of Earthquake Science

- 4 A Moment of Magnitude for America and for Science
- 7 USGS Responds to the 1906 Earthquake
- 7-10 A Letter Home and a Look Back in Time: Firsthand accounts from survivors
- 7-11 America's Shaky Past: The Top 18 Earthquakes Since 1700



- **11 Seismic Technology Evolves into the 21st Century:** From dragonheads and toads to geophones and electronic amplifiers, seismic science has come a long way.
- 12 History of the USGS Earthquake Hazards Program

The People Who Make Earthquake Science Interesting

- **13 "Mr. Earthquake" Takes a Bow:** Waverly Person retires after 51 years of service.
- **15 Thinking Globally:** Mary Lou Zoback guides the 1906 Earthquake commemoration.
- 28 Working for a Safer Southern California: Lucy Jones



- 21 What it's like to be an Earthquake Scientist: Ross Stein
- 22-30 A Nationwide Notion of Pride: USGS earthquake scientists share their proudest, most exciting or most noteworthy career moments.
- **17-20** Special Pullout: This Dynamic Planet Map — World Map of Volcanoes, Earthquakes, Impact Craters and Plate Tectonics

The Present and Future of Earthquake Science

- **14 NEIC:** The world's source for earthquake information
- 22 The Advanced National Seismic System: A Sure Bet for a Shaky Nation

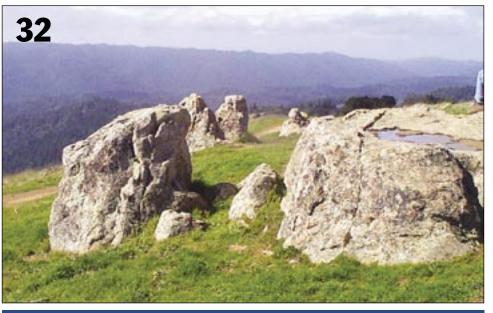
Table of Contents

This special edition of People, Land & Water commemorates the 1906 Earthquake, documents the birth and growth of earthquake science in the United States and demonstrates how this science is used to help safeguard communities.

For more information about the U.S. Geological Survey, please visit http://www.usgs.gov. To go straight to our earthquake science page, visit http://earthquake.usgs.gov/.



USGS stenographer Adelena M. Fontaine. Photo: George R. Davis family.



People, Land, & Water Special Issue

The Interior Department manages 1 out of every 5 acres of land in the nation; provides resources for a third of U.S. domestic energy; works with 562 Indian tribes; provides water to 31 million residents through 824 dams and reservoirs; receives 450 million annual visits to 390 National Park System units, 544 wildlife refuges and vast areas of multiple use lands; provides opportunities for hunters and anglers; and works to improve habitat on public and private lands.

This publication is the employee news magazine of the U.S. Department of the Interior. Its news content is developed by Interior bureaus and offices and coordinated by the Office of Communications (Office of the Secretary). The magazine is distributed through the U.S. Postal Service. For subscriptions, editorial contributions, Letters to the Editor, and other information: 1849 C St. NW, ms6013-MIB, Washington, DC, 20240; (ph) 202-208-7291; (fax) 202-208-7854; e-mail: PLW@ios.doi.gov

Brian Waidmann, Publisher

Clarice Nassif Ransom, Editor-in-Chief Tania Larson, Managing Editor

Doug Spencer, Creative Direction

- **Beth Stettner**, Creative Direction and Editorial Assistant
- Cher Cunningham, Copy Editor

P.K. Cascio, Front and Back Cover Design Will Stettner, This Dynamic Planet David Hebert and Susan Wells, Editorial Contributors

Electronic Ink, Production & Graphics

A special thank you to the following individuals for supporting this publication: Frank Quimby, Joan Moody, Teresa Rusnak and Donna Margelos of the U.S. Department of the Interior; and Barbara Wainman, Scott Harris, David Applegate and the Earthquake Hazards Program of the U.S. Geological Survey.



Building Safer

26

30

32

35

20

- **Not Just A California Thing:** The eastern and central United States may be more vulnerable to earth-quake damage than the West.
- 31 Taking Seismic Science into the Third Dimension
 - A Guidebook of San Andreas Fault Fieldtrips: USGS geologist Philip W. Stoffer beat the odds against cancer while writing a guidebook.
- 33 Did You Feel It? Citizen Science Goes Seismic: Help the USGS and its partners save lives by logging in and reporting your earthquake experience.
 - A Profusion of Products: Experience a virtual tour of the 1906 Earthquake. Meet the Hayward Fault face to face. View the ground shaking of the 1906 Earthquake. The USGS has a number of exciting events and products that commemorate the 100th anniversary of the 1906 Earthquake.

Other Stories

- **16** Earthquakes that Trigger other Natural Hazards
 - Earthquake Basics
- 24 How the Trans-Alaska Pipeline Survived a Big One
- 25 Measuring Magnitude
- 29 Top 10 Tips to Earthquake Preparedness
- **30** Aftershock Forecast
- **34** "Putting Down Roots in Earthquake Country"

The historical photos on the cover of this special edition are courtesy of the California Historical Society. The newspaper photo is courtesy of the Library of Congress.