



**PUBLICATIONS OF THE WESTERN
EARTH SURFACE PROCESSES TEAM
2003**

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Open-File Report 2004-1267

2004

**U. S. DEPARTMENT OF THE INTERIOR
U. S. GEOLOGICAL SURVEY**

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INTRODUCTION

The Western Earth Surface Processes Team (WESPT) of the U.S. Geological Survey (USGS) conducts geologic mapping, earth-surface processes investigations, and related topical earth science studies in the western United States. This work is focused on areas where modern geologic maps and associated earth-science data are needed to address key societal and environmental issues such as ground-water quality, landslides and other potential geologic hazards, and land-use decisions. Areas of primary emphasis in 2003 included southern California, the San Francisco Bay region, the Mojave Desert, the Colorado Plateau region of northern Arizona, and the Pacific Northwest. The team has its headquarters in Menlo Park, California, and maintains smaller field offices at several other locations in the western United States.

The results of research conducted by the WESPT are released to the public as a variety of databases, maps, text reports, and abstracts, both through the internal publication system of the USGS and in diverse external publications such as scientific journals and books. This report lists publications of the WESPT released in 2003 as well as additional 2000, 2001, and 2002 publications that were not included in the previous lists (USGS Open-File Reports 00-215, 01-198, and 02-269). Most of the publications listed were authored or coauthored by WESPT staff. The list also includes some publications authored by non-USGS cooperators with the WESPT, as well as some authored by USGS staff outside the WESPT in cooperation with WESPT projects.

Several of the publications listed are available on the World Wide Web; for these, URL addresses are provided. Many of these web publications are USGS open-file reports that contain large digital databases of geologic map and related information.

Information on ordering USGS publications can be found on the World Wide Web at <http://www.usgs.gov/pubprod/>, or by calling 1-888-ASK-USGS. The U.S. Geological Survey's web server for geologic information in the western United States is located at <http://geology.wr.usgs.gov/>. More information is available about the WESPT is available on-line at <http://geology.wr.usgs.gov/wgmt>.

ADDITIONAL 2000 PUBLICATION

1. Tolan, T.L., Beeson, M.H., and DuRoss, C.B., 2000, Geologic map and database of the Salem East and Turner 7.5-Minute quadrangles, Marion County, Oregon: A digital database: U.S. Geological Survey Open-file Report 99-351, 13 p., scale 1:24,000, <http://geopubs.wr.usgs.gov/open-file/of00-351>.

ADDITIONAL 2001 PUBLICATIONS

1. Billingsley, G.H., 2001(2004), Important extrusive and intrusive igneous rock units, *in* Young, R.A., and Spamer, E.E., eds., Colorado River Origin and Evolution, Section G; Proceedings of the symposium held at Grand Canyon National Park in June, 2000, Grand Canyon, Arizona: Grand Canyon Association Monograph 12, p. 223-232.
2. Ponce, D.A. and Glen, J.M.G., 2001, Large-scale crustal patterns, epithermal gold deposits, and the Yellowstone hotspot, western U.S. [abs]: Eos, Transactions, American Geophysical Union, v. 82, no. 47 (supplement), p. F1217.
3. Rowan, E.L., and de Marsily, G., 2001, Infiltration of late Paleozoic evaporative brines in the Reelfoot rift: a possible salt source for Illinois basin formation waters and MVT mineralizing fluids: *Petroleum Geoscience*, v. 7, no. 3, p. 269-279.
4. Rowan, E.L., Anna, L.O., Lillis, P.G., Cordon, S.M., Hester, T.C., and Ridgley, J.L., 2001, Rates of methane migration by diffusion: Implications for the age of gas resources in north-central Montana [abs.]: American Association of Petroleum Geologists, Annual Meeting Expanded Abstracts, v. 2001, p. 174.
5. Rowan, E.L., Goldhaber, M.B., and Hatch, J.R., 2001, Regional fluid flow as a factor in the thermal history of the Illinois Basin: Constraints from fluid inclusions and the maturity of Pennsylvania coals: *American Association of Petroleum Geologists Bulletin*, v. 86, no. 2, p. 257-277.

ADDITIONAL 2002 PUBLICATIONS

1. Chuang, F.C., Jachens, R.C., Wentworth, C.M., and Sanger, E.A., 2002, Young strike-slip basin on the Calaveras fault in San Felipe Valley, CA [abs.]: *Geological Society of America Abstracts with Programs*, v. 34, no. 5, p. 99.
2. Hereford, R., 2002, Valley-fill alluvium during the Little Ice Age (ca. A.D. 1400-1880) Paria River basin and southern Colorado Plateau, United States: *Geological Society of America Bulletin*, v. 114, no. 12, p. 1550-1563.
3. Hereford, R., and Webb, R.H., 2002, Precipitation history of the Colorado Plateau Region, 1900-2000: U.S. Geological Survey Fact Sheet 119-02, 4 p.
4. Hildenbrand, T.G., Acuna, M., Bracken, R.E., Hardwick, D., Hinze, W.J., Keller, G.R., Philips, J., and Roest, W., 2002, Rationale and operational plan for a U.S. high-altitude magnetic survey: U.S. Geological Survey Open-File Report 02-366, 22 p., <http://geopubs.wr.usgs.gov/open-file/of02-366>.

5. Hildenbrand, T.G., Briesacher, A., Flanagan, G., Hinze, W.J., Hittelman, A.M., Keller, G.R., Kucks, R.P., Plouff, D., Roest, W., Seeley, J., Smith, D.A., and Webring, M., 2002, Rationale and operational plan to upgrade the U.S. gravity database: U.S. Geological Survey Open-file Report 02-463, 12 p., <http://geopubs.wr.usgs.gov/open-file/of02-463>.
6. Madsen, D.B., Sarna-Wojcicki, A.M., and Thompson, R.S., 2002, A late Pleistocene tephra layer in the southern Great Basin and Colorado Plateau derived from Mono Craters, California: *Quaternary Research*, v. 57, no. 3, p. 382-390.
7. Miller, D.M., and Yount, J.C., 2002, Late Cenozoic tectonic evolution of the north-central Mojave Desert inferred from fault history and physiographic evolution of the Fort Irwin area, California, *in* Glazner, A.F., Walker, J.D., and Bortley, J.M., eds, *Geologic evolution of the Mojave Desert and southwestern basin and Range*: Geological Society of America Memoir 95, p. 173-197.
8. Moore, T.E., Dumitru, T. A., Adams, K.E., Witebsky, S.N., and Harris, A.G., 2002, Origin of the Lisburne Hills-Herald Arch structural belt: Stratigraphic, structural, and fission-track evidence from the Cape Lisburne area, northwestern Alaska, *in* Miller, E.L. and Grantz, A., eds., *Tectonic evolution of the Bering Shelf-Chukchi Sea and adjacent land masses*: Geological Society of America Special Paper 360, p. 77-109.
9. Morin, R.L., 2002, Isostatic gravity map of Yukon Flats, east-central Alaska: U.S. Geological Survey Open-file Report 02-322, 1 sheet, scale 1:500,000, <http://geopubs.wr.usgs.gov/open-file/of02-322>.
10. Powell, R.E., 2002, Geologic map and digital database of the Pinto Mountain 7.5 minute quadrangle, Riverside County, California: U.S. Geological Survey Open-file Report 02-491, 36 p., scale 1:24,000, <http://geopubs.wr.usgs.gov/open-file/of02-491>.
11. Powell, R.E. , 2002, Geologic map and digital database of the San Bernardino Wash 7.5' quadrangle, Riverside County, California: U.S. Geological Survey Open-file Report 02-498, 30 p., scale 1:24,000, <http://geopubs.wr.usgs.gov/open-file/of02-498>.
12. Roberts, C., Jachens, R., Katzenstein, A., Smith, G., and Johnson, R., 2002, Gravity map and data of the eastern half of the Big Bear Lake, 100,000 scale quadrangle, California and analysis of the depths of several basins: U.S. Geological Survey Open-file Report 02-353, scale 1:100,000, <http://geopubs.wr.usgs.gov/open-file/of02-353>.
13. Sampson, J., and Pellerin, L., 2002, A magnetotelluric transect across the Talkeetna Mountain, Alaska [abs.]: *Geological Society of America Abstracts with Programs*, v. 34, no. 5, p. 101.
14. Stoffer, P.W., 2002, Evidence for a widespread disruption layer associated with the Cretaceous-Tertiary boundary in the upper Fox Hills Formation throughout the Badland National Park region of South Dakota [abs.]: *Eos, Transactions, American Geophysical Union*, v. 83, no. 47 (supplement), p. F922.
15. Yurkovich, E.S., Howell, D.G., and Goss, H.V., 2002, Analyzing multi-hazard risk for populations and infrastructure of the Pacific Rim [abs.], *in* Singer, D.A., *Abstracts for the symposium on the application of neural networks to the earth sciences*: U.S. Geological Survey Open-File Report 02-315, p. 12.

16. Zempolich, W.G., Cook, H.E., Zhemchuzhnikov, V.G., Zorin, A.Y., Giovannelli, A., Viaggi, M., Leehmann, P.J., Fretwell, N., Zhaimina, V.Y., Buvtyshkin, V.M., and Alexeiev, D.V., 2002, Biotic and abiotic influence on the stratigraphic architecture and diagenesis of middle to late Paleozoic carbonates of the Bolshoi Karatau Mountains, Kazakhstan and the southern Urals, Russia: Implications for the distribution of early marine cements and reservoir quality in subsurface reservoirs, *in* Zempolich, W.G., and Cook, H.E., eds., Paleozoic carbonates of the Commonwealth of Independent States (CIS): subsurface reservoirs and outcrop analogs: Society for Sedimentary Geology Special Publication 74, p. 123-180.

2003 PUBLICATIONS

1. Amoroso, L., 2003, Preliminary surficial geology map of the western half of the Cuddeback Lake 100K quadrangle, California [abs.]: Geological Society of America Abstracts with Programs, v. 35, no. 6, p. 73.
2. Barton, K.E., Howell, D.G., and Vigil, J.F., 2003, The North America tapestry of time and terrain: U.S. Geological Survey Geologic Investigations Series I-2781, scale 1:8,000,000, <http://geopubs.wr.usgs.gov/i-map/i2781>.
3. Beard, L.S., Robinson, S.E., Felger, T.J., and Howard, K.A., 2003, Digital geologic mapping of the Lake Mead National Recreation area and vicinity: integrating soils, digital topography, geology, and MASTER remote sensor data [abs.]: Geological Society of America Abstracts with Programs, v. 35, no. 6, p. 72-73.
4. Bedford, D.R., 2003, Surficial and bedrock geologic map database of the Kelso 7.5-minute quadrangle, San Bernardino County, California: U.S. Geological Survey Open-File Report 03-501, scale 1:24,000, <http://geopubs.wr.usgs.gov/open-file/of03-501>.
5. Bedford, D.R., Ludington, S., Nutt, C.M., Stone, P., Miller, D.M., Miller, R.J., Wagner, D.L., and Saucedo, G.J., 2003, Geologic database for digital geology of California, Nevada, and Utah - an application of the North American data model: U.S. Geological Survey Open-File Report 03-135, 35 p., <http://geopubs.wr.usgs.gov/open-file/of03-135>.
6. Bedford, D.R., Miller, D.M., and Phelps, G.A., 2003, Applications of Quaternary geology of the Amboy 1:100,000-scale quadrangle, California [abs.]: Geological Society of America Abstracts with Programs, v. 35, no. 6, p. 75.
7. Bedford, D.R., Miller, D.M., and Phelps, G.A., 2003, Quaternary geology of the Amboy 1:100,000-scale quadrangle, California: XVI INQUA Conference Programs with Abstracts, p. 140.
8. Benson, L., Braddock, L., Smoot, J., Mensing, S., Lund, S., Stine, S., and Sarna-Wojcicki, A., 2003, Influence of the Pacific decadal oscillation on the climate of the Sierra Nevada, California and Nevada: Quaternary Research, v. 59, p. 151-159.
9. Benson, L., Liddicoat, J., Smoot, J., Sarna-Wojcicki, A., Negrini, R.T., and Lund, S., 2003, Age of the Mono Lake excursion and associated tephra: Quaternary Science Reviews, v. 22, p. 135-140.

10. Billingsley, G. H., and Dyer, H.C., 2003, Geologic map of the upper Hurricane Wash and vicinity, Mohave County, northwestern Arizona: U.S. Geological Survey Miscellaneous Field Studies Map MF-2410, 24 p., scale 1:31,600, <http://geopubs.wr.usgs.gov/map-mf/mf2410>.
11. Billingsley, G. H., and Graham, S.E., 2003, Geologic map of the lower Hurricane Wash and vicinity, Mohave County, northwestern Arizona: U.S. Geological Survey Miscellaneous Field Studies Map MF-2396, 28 p., scale 1:31,680, <http://geopubs.wr.usgs.gov/map-mf/mf2396>.
12. Billingsley, G.H., and Priest, S.S., 2003, Geologic map of Upper Clayhole Valley and vicinity, Mohave County, northwestern Arizona: U.S. Geological Survey Miscellaneous Field Studies Map MF-2418, 29 p. scale 1:31,680, <http://geopubs.wr.usgs.gov/map-mf/mf2418/>.
13. Billingsley, G.H., and Wellmeyer, J.L., 2003, Geologic map of the Mount Trumbull 30' x 60' quadrangle, Mohave and Coconino Counties, northwestern Arizona: U.S. Geological Survey Geologic Investigations Series I-2766, scale 1:100,000, 36 p., <http://geopubs.wr.usgs.gov/i-map/i2766/>.
14. Billingsley, G.H., Block, D.L., and Felger, T.J., 2003, Surficial geologic map of The Loop and Druid Arch quadrangles, Canyonlands National Park, Utah: U.S. Geological Survey Miscellaneous Field Studies Map MF-2411, scale 1:24,000, <http://geopubs.wr.usgs.gov/map-mf/mf2411/>.
15. Billingsley, G.H., Block, D.L., Dyer, H.C., Graham, S.E., and Priest, S.S., 2003, USGS/NPS geologic mapping of the southwestern Colorado Plateau [abs.]: Geological Society of America Abstracts with Programs, v. 35, no. 6, p. 69.
16. Bird, K.J., 2003, Overview of the Alaskan North Slope posters presented at the American Association of Petroleum Geologists (AAPG) Annual Meeting in Salt Lake City, Utah, USA during May 11-14, 2003 - A status report of the U.S. Geological Survey Alaska petroleum studies: U.S. Geological Survey Open-File Report 03-323, 3 sheets, <http://geopubs.wr.usgs.gov/open-file/of03-323>.
17. Bird, K.J., 2003, The 2002 oil and gas assessment of the National Petroleum Reserve, Alaska by the U.S. Geological Survey [abs.]: American Association of Petroleum Geologists Annual Convention, Salt Lake City, Utah, May 11-14, 2003, http://aapg.confex.com/aapg/sl2003/techprogram/paper_80273.htm.
18. Blakely, R.J., and Wells, R.E., 2003, High-resolution aeromagnetic data facilitate mapping and characterization of Cascadia earthquake hazards [abs.]: IUGG 2003 Scientific Program and Abstracts, Sapporo, Japan, June 30-July 11, 2003, abstract GAV.06/10A/A11-001, p. B.258.
19. Blakely, R.J., Brocher, T.M., and Wells, R.E., 2003, Subduction zone magnetic anomalies: implications for mapping hydrated forearc mantle beneath Cascadia [abs.]: Geological Society of America Abstracts with Programs, v. 35, no. 6, p. 308.
20. Blakely, R.J., Weaver, C.S., Sherrod, B.L., Troost, K.G., Haugerud, R.A., Wells, R.E., and McCormack, D.H., 2003, The Cottage Lake lineament, Washington: onshore extension of

- the southern Whidbey Island fault? [abs.]: *Eos, Transactions, American Geophysical Union*, v. 84, no. 46 (supplement), p. F1094.
21. Brabb, E.E., and Parker, J.M., 2003, Location and age database for selected foraminifer samples collected by Exxon petroleum geologists in California: U.S. Geological Survey Open-File Report 03-429, 5 p., <http://geopubs.wr.usgs.gov/open-file/of03-429>.
 22. Brabb, E.E., and Parker, J.M., 2003, Location and age of foraminifer samples collected by Chevron Petroleum geologists in California: U.S. Geological Survey Open-File Report 03-167, 11 p., <http://geopubs.wr.usgs.gov/open-file/of03-167>.
 23. Chuang, F.C., McKee, E.D., and Howard, K.A., 2003, Hydrogeologic factors that influence ground water movement in the desert southwest United States: U.S. Geological Survey Open-File Report 03-294, 31 p., 21 plates, and 1 table, <http://geopubs.wr.usgs.gov/open-file/of03-294>.
 24. Cox, B.F., Hillhouse, J.W., and Owen, L.A., 2003, Pliocene and Pleistocene evolution of the Mojave River and associated tectonic development of the Transverse Ranges and Mojave Desert, based on borehole stratigraphy studies near Victorville, California, *in* Enzel, Y., Wells, S.G., and Lancaster, N., eds., *Paleoenvironments and paleohydrology of the Mojave and southern Great Basin Deserts: Geological Society of America Special Paper 368*, p. 1-42.
 25. Cox, B.F., Mahan, S.A., and Thoms, E., 2003, Geologic quadrangle mapping and studies of Quaternary stratigraphy in the Puget Lowland near Edmonds, Washington [abs.]: *Geological Society of America Abstracts with Programs*, v. 35, no. 6, p. 80.
 26. Dahl, J.E., Moldowan, J.M., Peakman, T.M., Clardy, J.C., Lobkovsky, E., Olmstead, M.M., May, P.W., Davis, T.J., Steeds, J.W., Peters, K.E., Pepper, A., and Ekuan, A., 2003, Isolation and structural proof of the large diamond molecule, cyclohexamantane (C₂₆H₃₀). *Angewandte Chemie International Edition*, v. 42, p. 2040-2044.
 27. Day, H.W., Blake, M. C., Ernst, W. G., Hacker, B. R., Howard, K., Jacobson, C., Springer, R. K., Todd, V., and Wentworth, C., 2003, A preliminary metamorphic map of California [abs.]: *Geological Society of America Abstracts with Programs*, v. 35, no. 6, p. 96, http://gsa.confex.com/gsa/2003AM/finalprogram/abstract_63481.htm.
 28. Dinterman, P.A., and Evarts, R.C., 2003, Progress in geologic mapping of the Portland Basin, Oregon and Washington [abs.]: *Geological Society of America Abstracts with Programs*, v. 35, no. 6, p. 76.
 29. Dudash, S.L., Bedford, D.R., Robinson, S.E., Schmidt, K.M., Miller, D.M., Menges, C., Phelps, G., and Amoroso, L., 2003, Geomorphic analysis of tectonic provinces based on surficial geologic map databases, eastern Mojave Desert [abs.]: *Geological Society of America Abstracts with Programs*, v. 35, no. 6, p. 74.
 30. Evarts, R.C., Clynne, M.A., Fleck, R.J., Lanpher, M.A., Calvert, A.T., and Sarna-Wojcicki, A.M., 2003, The antiquity of Mount St. Helens and age of the Hayden Creek Drift [abs.]: *Geological Society of America Abstracts with Programs*, v. 35, no. 6, p. 80.
 31. Fleck, R. J., 2003, Radiometric dating, *in* Nybakken, J.W., Broenkow, W.W., and Vallier, T.S., eds., *Interdisciplinary encyclopedia of marine sciences: Danbury, Conn., Grolier Academic Reference*.

32. Ford, E.W., Caskey, S.J., Wagner, D.L., and Fleck, R.J., 2003, Miocene volcanic rocks at Burdell Mountain and implications for slip along the East Bay fault system [abs.]: Geological Society of America Abstracts with Programs, v. 35, no. 6, p. 73.
33. Forester, R.M., Miller, D.M., and Pedone, V.A., 2003, Ground water and ground-water discharge carbonate deposits in warm deserts [abs.], *in* Reynolds, R.E., ed., Land of lost lakes: 2003 Desert Symposium field trip and symposium, California State University Desert Studies Consortium, p. 27-36.
34. Frost, G.M., Barnes, D.F., and Stanley, R.G., 2003, Geologic and isostatic gravity map of the Nenana Basin area, central Alaska: U.S. Geological Survey Geologic Investigations Series I-2543, 17 p., <http://geopubs.wr.usgs.gov/i-map/i2543/>.
35. Gao, Y., Person, M. A., Dahlstrom, D., Hofstra, A., Sweetkind, D., Howard, K., John, D., Prudic, D., and Wallace, A., 2003, The role of faults in the plumbing of the Great Basin geothermal systems and gold mineralization [abs.]: Geological Society of America Abstracts with Programs, v. 35, no. 6, p. 617, http://gsa.confex.com/gsa/2003AM/finalprogram/abstract_67157.htm.
36. Glen, J.M.G., and Schmidt, J., 2003, Active crustal dynamics in the bend of the southern Alaska orocline [abs.]. Geophysical Research Abstracts, v. 5, 07755, <http://www.cosis.net/abstracts/EAE03/07755/EAE03-J-07755.pdf> [web only].
37. Glen, J.M.G., McPhee, D.K., Schmidt, J.M., Pellerin, L., and Morin, R.L., 2003, Terrane-scale crustal structures of southcentral Alaska inferred from regional geophysical studies [abs.]: Geological Society of America Abstracts with Programs, v. 35, no. 6, p. 560.
38. Glen, J.M.G., Ponce, D.A., Nomade, S., and John, D.A., 2003, Dike emplacement and the birth of the Yellowstone hotspot, western USA [abs.]. Geophysical Research Abstracts, v. 5, 07780, <http://www.cosis.net/abstracts/EAE03/07780/EAE03-J-07780.pdf> [web only].
39. Graymer, R.W., 2003, What geological processes caused the formation of the San Francisco Bay region?, *in* Adesnik, M.B., and others, Access Science: New York, McGraw-Hill, <http://www.accessscience.com/>.
40. Graymer, R.W., Jones, D.L., and Brabb, E.E., 2003, Geologic map and map database of northeastern San Francisco Bay region, California: U.S. Geological Survey Miscellaneous Field Studies Map MF-2403, 30 p., <http://geopubs.wr.usgs.gov/map-mf/mf2403>.
41. Graymer, R.W., Ponce, D.A., Jachens, R.C., Simpson, R.W., and Wentworth, C.M., 2003, Pliocene reorganization of Hayward-Calaveras fault junction, San Francisco Bay region, California, USA [abs.]: Eos, Transactions, American Geophysical Union, v. 84, no. 46 (supplement), p. F1354.
42. Hagstrum, J.T., 2003, Antipodal hotspots on Earth: Are major deep-ocean impacts the cause? [abs.]: Impact Cratering: Bridging the gap between modeling and observations, Lunar and Planetary Institute, Houston, TX, LPI Contribution no. 1155, p. 27.
43. Hagstrum, J.T., 2003, Antipodal hotspots on Earth: vestiges of major oceanic bolide impacts? [abs.]: Eos, Transactions, American Geophysical Union, v. 84, no. 46 (supplement), p. F1490.

44. Hastings, J.T., and Matti, J.C., 2003, Management of geologic taxonomies in the National Geologic-Map Database Project [abs.]: Geological Society of America Abstracts with Programs, v. 35, no. 6, p. 279.
45. Haugerud, R.A., Harding, D.J., Johnson, S.Y., Harless, J.L., Weaver, C.S., and Sherrod, B.L., 2003, High-resolution Lidar topography of the Puget Lowland, Washington - A bonanza for earth science: GSA Today, v. 13, no. 6, p. 4-10.
46. Hayman, N.W., Knott, J.R., Cowan, D.S., Nemser, Eliza, and Sarna-Wojcicki, A.M., 2003, Quaternary low-angle slip on detachment faults in Death Valley, California. Geology, v. 31, no. 4, p. 343-346.
47. Hildenbrand, T.G., and Berger, B., 2003, Regional structures related to mineral deposit clusters in western United States, based on magnetic and gravity interpretations: Global Tectonics and Metallogeny, v. 8, nos. 1-4, p. 51-57.
48. Hildenbrand, T.G., Briesacher, A., Hinze, W.J., Hittelman, A., Keller, G.R., Kucks, R.P., Smith, D., and Roest, W.R., 2003, Web-based U.S. gravity data system planned: Eos, Transactions, American Geophysical Union, v. 83, no. 52, p. 613, 618.
49. Hildenbrand, T.G., Keller, G.R., Blakely, R., and Hinze, W.J., 2003, Need for a U.S. high-altitude magnetic survey [abs.]: Geological Society of America Abstracts with Programs, v. 35, no. 6, p. 446.
50. Hildenbrand, T.G., Keller, G.R., Pellerin, L., Phillips, J., Ravat, D., and Sabaka, T., 2003, High-altitude magnetic survey over the United States [abs.]: Eos, Transactions, American Geophysical Union, v. 84, no. 46 (supplement), p. F539.
51. Hildenbrand, T.G., Langenheim, V.E., and Ponti, D.J., 2003, Gravity-defined narrow subbasins along the margins of the Los Angeles basin, California [abs.]: American Association of Petroleum Geologists, Pacific Section, May 19-24, p. 71-72.
52. Hosford Scheirer, A., Gautier, D.L., and Jachens, R.C., 2003, A three-dimensional geologic map of the San Joaquin Basin, California [abs.]: Geological Society of America Abstracts with Programs, v. 35, no. 6, p. 74.
53. Howard, K.A., 2003, Crustal structure in the Elko-Carlin region, Nevada, during Eocene gold mineralization: Ruby Mountains metamorphic core complex as a guide to the deep crust: Economic Geology, v. 98, p. 249-268.
54. Howard, K.A., Hook, S.J., Phelps, G.A., and Block, D.L., 2003, Geologic map of the Hiller Mountains Quadrangle, Clark County, Nevada and Mohave County, Arizona: Nevada Bureau of Mines and Geology Map 137, scale 1:24,000, 8 p., <http://www.nbmg.unr.edu/dox/m137text.pdf> and <http://www.nbmg.unr.edu/dox/m137plate.pdf>.
55. Howell, D.G., and Swinchatt, J.P., 2003, Mega-landslides in Napa Valley, California [abs.]: Geological Society of America Abstracts with Programs, v. 35, no. 6, p. 96.
56. Huber, N.K., 2003, From "V" to "U" - Glaciation and valley sculpture: Yosemite, v. 65, no. 4, p. 6-8.
57. Huber, N.K., 2003, Yosemite Falls - A new perspective: Yosemite, v. 65, no. 1, p. 10-14.

58. Jachens, R.C., Ponce, D.A., Graymer, R.W., Wentworth, C.M., and Hildenbrand, T.G., 2003, The Hayward fault in the east San Francisco Bay region, California: A regional geophysical and geological perspective [abs.]: Eos, Transactions, American Geophysical Union, v. 84, no. 46 (supplement), p. F1335-F1336.
59. Jayko, A.S., Forester, R.M., Kaufman, D.S., Bright, J., and McGeehin, J.P., 2003, Late Pleistocene lakes and groundwater discharge, Panamint Valley, California [abs.]: Congress of the International Union for Quaternary Research, v. 16, p. 181.
60. Jayko, A.S., Forester, R.M., Kaufman, D.S., Mahan, S.A., McGeehin, J.P., Phillips, F.M., and Sarna-Wojcicki, A., 2003, Climatic and tectonic links to paleogroundwater systems from surficial deposits mapping, Darwin Hills 1:100,000, Inyo County, California: Geological Society of America Abstracts with Programs, v. 35, no. 6, p. 29-30.
61. John, D.A., Hofstra, A.H., Fleck, R.J., Brummer, J.E., and Saderholm, E.C., 2003, Geologic setting and genesis of the Mule Canyon low-sulfidation epithermal gold-silver deposit, north-central Nevada: Economic Geology, v. 98, p. 425-463.
62. Keller, M.A., and Bird, K.J., 2003, Petroleum source potential of the Lower Cretaceous mudstone succession of the NPRA and Colville Delta area, North Slope Alaska, based on sonic and resistivity logs: U.S. Geological Survey Open-File Report 03-325, 2 sheets, <http://geopubs.wr.usgs.gov/open-file/of03-325/>.
63. Keller, M.A., and Bird, K.J., 2003, Petroleum source potential of the Lower Cretaceous mudstone succession of the NPRA and Colville Delta area, North Slope, Alaska, based on sonic and resistivity logs [abs.]: AAPG Annual Convention, Salt Lake City, Utah, May 11-14, 2003. http://aapg.confex.com/aapg/sl2003/techprogram/paper_79134.htm.
64. Kennedy, M.P., and Morton, D.M., 2003, Preliminary geologic map of the Murrieta 7.5' quadrangle, Riverside County, California. U.S. Geological Survey Open-File Report 03-189, 17 p., scale 1:24,000, <http://geopubs.wr.usgs.gov/open-file/of03-189/>.
65. Kistler, R.W., Wooden, J.L., and Morton, D.M., 2003, Isotopes and ages in the northern Peninsula Ranges batholith, southern California: U.S. Geological Survey Open-File Report 03-489, 45 p., <http://geopubs.wr.usgs.gov/open-file/of03-489/>.
66. Lampe, C., Peters, K.E., Magoon, L.B., Bird, K.J., and Lillis, P.G., 2003, Petroleum systems of the Alaskan North Slope - A numerical journey from source to trap: U.S. Geological Survey Open-File Report 03-326, 3 sheets, <http://geopubs.wr.usgs.gov/open-file/of03-326/>.
67. Langenheim, V.E., and Jachens, R.C., 2003, Crustal structure of the Peninsular Ranges batholith from aeromagnetic data: Implications for Gulf of California rifting [abs.]: Geological Society of America Abstracts with Programs, v. 35, no. 4, p. 9.
68. Langenheim, V.E., and Jachens, R.C., 2003, Crustal structure of the Peninsular Ranges Batholith from magnetic data: Implications for Gulf of California rifting: Geophysical Research Letters, v. 30, no. 11, 1597, p. 51-1-51-4.
69. Langenheim, V.E., Graymer, R.W., Jachens, R.C., McPhee, D.K., and Schmidt, K.M., 2003, The West Napa fault as defined by gravity and magnetic data, northern California [abs.]: Eos, Transactions, American Geophysical Union, v. 84, no. 46 (supplement), p. F1337.

70. Langenheim, V.E., Jachens, R.C., Grow, J.A., Dixon, G.L., Miller, J.J., Blakely, R.J., Scheirer, D., Lundstrom, S.C., and Page, W.R., 2003, Analysis of geophysical data support ongoing seismic hazard evaluation in southern Nevada: Geological Society of America Abstracts with Programs, v. 35, no. 6, p. 476.
71. Larsen, D., Knott, J., and Jayko, A.S., 2003, Comparison of middle Pleistocene records in Death, Panamint, and Tecopa Valleys, California: Implications for regional paleoclimate: Geological Society of America Abstracts with Programs, v. 35, no. 6, p. 333, http://gsa.confex.com/gsa/2003AM/finalprogram/abstract_65446.htm.
72. Lee, S-Y., Barnes, C.G., Snoke, A.W., Howard, K.A., and Frost, C.D., 2003, Petrogenesis of Mesozoic peraluminous granites in the Lamoille Canyon area, Ruby Mountains, Nevada, U.S.A.: Journal of Petrology, v. 44, no. 4, p. 713-732.
73. Lesle, T., Barton, K., Howell, D., and Vigil, J.F., 2003, The travesty of time and terrain [abs.]: Geological Society of America Abstracts with Programs, v. 35, no. 6, p. 250.
74. Magoon, L.B., Claypool, G.E., Gautier, D.L., Lillis, P.G., Peters, K.E., and Hosford Scheirer, A., 2003, Modeling the petroleum systems in the San Joaquin basin, California [abs.]: Geological Society of America Abstracts with Programs, v. 35, no. 6, p. 486.
75. Magoon, L.B., Lillis, P.G., Bird, K.J., Lampe, C., and Peters, K.E., 2003, Alaskan North Slope petroleum systems: U.S. Geological Survey Open-File Report 03-324, 3 sheets, <http://geopubs.wr.usgs.gov/open-file/of03-324/>.
76. Magoon, L.B., Lillis, P.G., Bird, K.J., Lampe, C., and Peters, K.E., 2003, Alaskan North Slope petroleum systems [abs.]: AAPG Annual Convention, Salt Lake City, Utah, May 11-14, 2003, http://aapg.confex.com/aapg/sl2003/techprogram/paper_78582.htm.
77. Mankinen, E.A., and Wentworth, C.M., 2003, Preliminary paleomagnetic results from the Coyote Creek outdoor classroom drill hole, Santa Clara Valley, California: U.S. Geological Survey Open-File Report 03-187, 35 p., <http://geopubs.wr.usgs.gov/open-file/of03-187>.
78. Mankinen, E.A., Box, S.E., Zientek, M.L., Bookstrom, A.A., and Carlson, M.H., 2003, Mid-crustal domains in the northern Rocky Mountains from long-wavelength isostatic residual gravity and aeromagnetic data, Montana and Idaho [abs.]: Geological Society of America Abstracts with Programs, v. 35, no. 6, p. 152.
79. Mankinen, E.A., Hildenbrand, T.G., Fridrich, C.J., McKee, E.H., and Schenkel, C.J., 2003, Geophysical setting of the Pahute Mesa – Oasis Valley region, southern Nevada: Nevada Bureau Mines and Geology Report 50, CD-ROM, 45 p.
80. Matti, J.C., Morton, D.M., Cox, B.F., Carson, S.E., and Yetter, T.J., 2003, Geologic map and digital database of the Yucaipa 7.5' quadrangle, San Bernardino and Riverside Counties, California: U.S. Geological Survey Open-File Report 03-302, 41 p., scale 1:24,000, <http://geopubs.wr.usgs.gov/open-file/of03-301/>.
81. Matti, J.C., Morton, D.M., Cox, B.F., Kendrick, K.J., 2003, Geologic map and digital database of the Redlands 7.5' quadrangle, San Bernardino and Riverside Counties, California: U.S. Geological Survey Open-File Report 03-302, 14 p., scale 1:24,000, <http://geopubs.wr.usgs.gov/open-file/of03-302/>.

82. McBride, J.H., Kolata, D.R., and Hildenbrand, T.G., 2003, Geophysical constraints on understanding the origin of the Paleozoic Illinois Basin and its underlying crust: *Tectonophysics*, v. 363, no. 1-2, p. 45-78.
83. McCulloh, T.H., Fleck, R.J., Denison, R.E., Beyer, L.A., and Stanley, R.G., 2003, Age and tectonic significance of volcanic rocks in the northern Los Angeles basin, California: U.S. Geological Survey Professional Paper 1669, 27 p., <http://geopubs.wr.usgs.gov/prof-paper/pp1669/>.
84. McKee, E.H., 2003, Geology adapted to hydrology - Silent Canyon caldera [abs.]: *Geological Society of America Abstracts with Programs*, v. 35, no. 6, p. 617.
85. McLaughlin, R.J., and Sarna-Wojcicki, A.M., 2003, Geology of the right stepover region between the Rodgers Creek, Healdsburg, and Maacama faults, northern San Francisco Bay region: U.S. Geological Survey Open-File Report 03-502, 23 p., <http://geopubs.wr.usgs.gov/open-file/of03-502>.
86. McLaughlin, R.J., Sarna-Wojcicki, A.M., Fleck, R.J., Wagner, D. L., Jachens, R.C., Levin, R.G., Roberts, C.W., Valin, Z.C., Powell, C.L., II, and Allen, J.R., 2003, Framework of the right-stepped Rodgers Creek-Maacama fault system, northern San Francisco Bay region, California. [abs.]: *Geological Society of America Abstracts with Programs*, v. 35, no. 6, p. 74.
87. McLaughlin, R.J., Wagner, D., and Sarna-Wojcicki, A.M., 2003, Geology of the right-stepover region between the Rodgers Creek, Healdsburg, and Maacama Faults, northern San Francisco Bay Region: *Northern California Geological Society Field Trip Guide*, June 6-8, 2003, 56 p.
88. McPhee, D.K., 2003, Potential field modeling of the 3-D geologic structure of the San Andreas fault observatory at depth (SAFOD) at Parkfield, California [abs.]: *Eos, Transactions, American Geophysical Union*, v. 84, no. 46 (supplement), p. F1418.
89. Menges, C.M., Fridrich, C., Blakely, R.J., and Thompson, R.A., 2003, Late Quaternary surface rupture and associated transpressive uplift on a section of the Stateline fault at the north end of the Resting Spring Range, southwestern Nevada, USA [abs.]: *Eos, Transactions, American Geophysical Union*, v. 84, no. 46 (supplement), p. F988-F989.
90. Messina, P., Speranza, P., Metzger, E.P., and Stoffer, P., 2003, The ongoing educational anomaly of Earth Science placement: *Journal of Geoscience Education*, v. 51, no. 4, p. 424-430.
91. Miller, D.M., Bedford, D.R., and Dudash, S.L., 2003, Quaternary geology of the Ivanpah 1:100,000-scale quadrangle, California and Nevada [abs.]: *Geological Society of America Abstracts with Programs*, v. 35, no. 6, p. 75.
92. Minervini, J., 2003, Maps showing inundation depths, ice-rafted erratics, and sedimentary facies of late Pleistocene Missoula floods in the Willamette Valley, Oregon. U.S. Geological Survey Open-File Report 03-408, 8 p., 2 sheets, scale 1:250,000, <http://geopubs.wr.usgs.gov/open-file/of03-408>.
93. Moore, T.E., 2003, Extensional tectonism and terrane dispersion in the Cordillera - examples in northern Alaska and Baja California [abs.]: *Geological Society of America Abstracts with Programs*, v. 35, no. 4, p. 24.

94. Moore, T.E., and Potter, C.J., 2003, Structural plays in Ellesmerian sequence and correlative strata of the National Petroleum Reserve, Alaska: U.S. Geological Survey Open-File Report 03-253, 58 p., <http://geopubs.wr.usgs.gov/open-file/of03-253>.
95. Moore, T.E., Potter, C.J., O'Sullivan, P.B., Shelton, K.L., and Underwood, M.B., 2003, Association of deformation and fluid events in the central Brooks Range fold-and-thrust belt, northern Alaska: U.S. Geological Survey Open-File Report 03-327, 2 sheets, <http://geopubs.wr.usgs.gov/open-file/of03-327>.
96. Morin, R.L., and Glen, J.M.G., 2003, Principal facts for 408 gravity stations in the vicinity of the Talkeetna Mountains, south-central Alaska: U.S. Geological Survey Open-File Report 03-27, 27 p., <http://geopubs.wr.usgs.gov/open-file/of03-27/>.
97. Morton, D.M., 2003, Geologic map of the Romoland 7.5' quadrangle, Riverside County, California: U.S. Geological Survey Open-file Report 03-102, 17 p., scale 1:24,000, <http://geopubs.wr.usgs.gov/open-file/of03-102>.
98. Morton, D.M., 2003, Preliminary geologic map of the Fontana 7.5' quadrangle, Riverside and San Bernardino Counties, California: U.S. Geological Survey Open-File Report 03-418, 17 p., scale 1:24,000, <http://geopubs.wr.usgs.gov/open-file/of03-418>.
99. Morton, D.M., 2003, Preliminary geologic map of the Perris 7.5' quadrangle, Riverside County, California: U.S. Geological Survey Open-File Report 03-270, 17 p., scale 1:24,000, <http://geopubs.wr.usgs.gov/open-file/of03-270>.
100. Morton, D.M., 2003, Preliminary geologic map of the Winchester 7.5' quadrangle, Riverside County, California: U.S. Geological Survey Open-File Report 03-188, 18 p., scale 1:24,000, <http://geopubs.wr.usgs.gov/open-file/of03-188>.
101. Morton, D.M., Alvarez, R.M., and Campbell, R.H., 2003, Preliminary soil-slip susceptibility maps, southwestern California: U.S. Geological Survey Open-File Report 03-17, 14 p., <http://geopubs.wr.usgs.gov/open-file/of03-17/>.
102. Morton, D.M., Alvarez, R.M., Cox, B.F., Matti, J.C., and Miller, F.K., 2003, Southern California Areal Mapping Project: Multiple applied uses of general purpose geologic maps in the San Bernardino 30' x 60' area [abs.]: Geological Society of America Abstracts with Programs, v. 35, no. 6, p. 74.
103. Morton, D.M., and Kennedy, M.P., 2003, Geologic map and digital database of the Bachelor Mountain 7.5' quadrangle, Riverside County, California: U. S. Geological Survey Open-file Report 03-103, 17 p., <http://geopubs.wr.usgs.gov/open-file/of03-103/>.
104. Morton, D.M., and Miller, F.K., 2003, Preliminary geologic map of the San Bernardino 30' x 60' quadrangle, California: U.S. Geological Survey Open-File Report 03-293, 190 p., scale 1:100,000, <http://geopubs.wr.usgs.gov/open-file/of03-293>.
105. Morton, D.M., and Weber, F. H., Jr., 2003, Preliminary geologic map of the Elsinore 7.5' quadrangle, Riverside County, California: U.S. Geological Survey Open-File Report 03-281, 18 p., scale 1:24,000, <http://geopubs.wr.usgs.gov/open-file/of03-281>.
106. Morton, D.M., Matti, J.C., Kistler, R.W., Langenheim, V.E., and Miller, F.K., 2003, Lakeview 7.5' quadrangle: prototype quadrangle, National Geologic Map Database project [abs.]: Geological Society of America Abstracts with Programs, v. 35, no. 6, p. 278.

107. Normark, W.R., Hein, J.R., Powell, C.L., II, Lorenson, T.D., Lee, H.J., and Edwards, B.D., 2003, Methane hydrate recovered from a mud volcano in Santa Monica Basin, offshore southern California [abs.]: *Eos, Transactions, American Geophysical Union*, v. 84, no. 46 (supplement), p. F845.
108. Nutt, C.J., and Howard, K.A., 2003, Eocene basins in northeastern Great Basin, Utah and Nevada, and their significance [abs.]: *Geological Society of America Abstracts with Programs*, v. 35, no. 6, p. 26,
http://gsa.confex.com/gsa/2003AM/finalprogram/abstract_61910.htm.
109. O'Neill, J.M., Schmidt, J.M., Glen, J.M.G, and Pellerin, L., 2003, Mesozoic and Tertiary structural history of the northern Tallektna Mountains [abs.]: *Geological Society of America Abstracts with Programs*, v. 35, no. 6, p. 960.
110. O'Connor, J., Sarna-Wojcicki, A.M., Wozniak, K.C., Gannett, M.W., and Conlon, T.D., 2003, Quaternary stratigraphic framework for hydrogeologic analysis of the Willamette Valley, Oregon [abs.]: *Geological Society of America Abstracts with Programs*, v. 35, no.6, p. 488, http://gsa.confex.com/gsa/2003AM/finalprogram/abstract_62546.htm.
111. Oze, C.J., LaForce, M.J., Wentworth, C.M., Hanson, R.T., Bird, D.K., and Coleman, R.G., 2003, Assessing mineral weathering and chromium geochemistry in the Willow core, Santa Clara County, California: U.S. Geological Survey Open-File Report 03-251, 24 p.,
<http://geopubs.wr.usgs.gov/open-file/of03-251>.
112. Parker, J.M., West, W.B., Malmberg, W.T., and Brabb, E.E., 2003, Preliminary location and age database for invertebrate fossils collected in the San Francisco Bay region, California. U.S. Geological Survey Open-File Report 03-465, 5 p.,
<http://geopubs.wr.usgs.gov/open-file/of03-465>.
113. Pawlewicz, M.J., Steinshouer, D.W., and Gautier, D.L., 2003, Map showing geology, oil and gas fields, and geologic provinces of Europe including Turkey: U.S. Geological Survey Open-File Report 97-470-I, 1 CD-ROM.
114. Peters, K.E., Bird, K.J., Keller, M.A., Lillis, P.G., and Magoon, L.B., 2003, Distribution, richness, quality, and thermal maturity of source rock units on the North Slope of Alaska [abs.]: AAPG Annual Convention, Salt Lake City, Utah, May 11-14, 2003,
http://aapg.confex.com/aapg/sl2003/techprogram/paper_78872.htm.
115. Peters, K.E., Bird, K.J., Keller, M.A., Lillis, P.G., and Magoon, L.B., 2003, Distribution, richness, quality, and thermal maturity of source rock units on the North Slope of Alaska. U.S. Geological Survey Open-File Report 03-328, 3 sheets,
<http://geopubs.wr.usgs.gov/open-file/of03-328/>.
116. Peters, K.E., Lampe, C., Magoon, L.B., Bird, K.J., and Lillis, P.G., 2003, Quantitative modeling of petroleum systems of the North Slope of Alaska [abs.]: *Geological Society of America Abstracts with Programs*, v. 35, no. 6, p. 486.
117. Phelps, G.A., and Miller, D.M., 2003, Supervised classification of surficial geology units using local statistics from digital orthophoto quadrangles as input into an Artificial Neural Network [abs.]: *Eos, Transactions, American Geophysical Union*, v. 84, no. 46 (supplement), p. F751.

118. Phelps, G.A., Jachens, R.C., Wentworth, C.M., Langenheim, V.E., Hanson, R.T., and Faucet, C.C., 2003, Applications of geowall technology to the analysis of a three dimensional geologic map of the Santa Clara (Silicon) Valley, California [abs.]: Eos, Transactions, American Geophysical Union, v. 84, no. 46 (supplement), p. F441.
119. Pike, R.J., and Sobieszczyk, Steven, 2003, Process-modulated contrasts in slope exposure of landslides in the San Francisco Bay area [abs.]: Eos, Transactions, American Geophysical Union, v. 84, no. 46 (supplement), p. F746-F747, <http://www.agu.org/meetings/fm03/fm03-pdf/fm03-H51D.pdf>.
120. Pike, R.J., Graymer, R.W., and Sobieszczyk, Steven, 2003, A simple GIS model for mapping landslide susceptibility, *in* Evans, I.S., Dikau, R., Tokunaga, E., Ohmori, H., and Hirano, M., eds., Concepts and modeling in geomorphology—International perspectives: Tokyo, Terrapub, p. 185-197
121. Pike, R.J., Howell, D.G., and Graymer, R.W., 2003, Landslides and cities - an unwanted partnership, Chapter 8 *in* Heiken, G., Fakundiny, R., and Sutter, J.F., eds., Earth Science in the City – A reader: AGU Special Publication 56, p. 187-254.
122. Pike, R.J., Sobieszczyk, S., and Manning, C.D., 2003, A preliminary digital map of susceptibility to large landslides: International Landslide Research Group Newsletter, v. 17, digital note 1, http://www.crowdingtherim.org/docs/ctr/ilrg/v_17_dn_1?v17dn1.html - TOPIC_1.
123. Poag, C.W., Mankinen, E., and Norris, R.D., 2003, Late Eocene impacts: Geologic record, correlation, and paleoenvironmental consequences, *in* Prothero, D.R., Ivany, L.C., and Nesbitt, E.A., eds., From greenhouse to icehouse: The marine Eocene-Oligocene transaction: New York, Columbia University Press, p. 495-510.
124. Ponce, D.A., and Plouff, D., 2001, Bouguer gravity map of Nevada, Vya sheet: Nevada Bureau of Mines and Geology Report 128, 1 sheet, scale 1:250,000.
125. Ponce, D.A., Bürgmann, R., Graymer, R.W., Lienkaemper, J.J., Moore, D.E., and Schwartz, D.P., eds., Proceedings of the Hayward fault workshop, eastern San Francisco Bay area, California, September 19-20, 2003: U.S. Geological Survey Open-File Report 03-485, 67 p., <http://geopubs.wr.usgs.gov/open-file/of03-485>.
126. Ponce, D.A., Hildenbrand, T.G., and Jachens, R.C., 2003, Geophysical anomalies and segmentation of the Hayward fault, San Andreas fault system, northern California, USA [abs]: Geophysical Research Abstracts, v. 5, 04705, <http://www.cosis.net/abstracts/EAE03/04705/EAE03-J-04705.pdf>.
127. Ponce, D.A., Hildenbrand, T.G., and Jachens, R.C., 2003, Gravity and magnetic expression of the San Leandro Gabbro with implications from the geometry and evolution of the Hayward Fault Zone, northern California: Bulletin of the Seismological Society of America, v. 93, no. 1, p. 14-26.
128. Ponce, D.A., Langenheim, V.E., Hildenbrand, T.G., and Jachens, R.C., 2003, Mafic and ultramafic inclusions along the San Andreas fault system: their geophysical character and effect on earthquake behavior, California, USA [abs]: Geophysical Research Abstracts, v. 5, <http://www.cosis.net/abstracts/EAE03/04713/EAE03-J-04713.pdf>

129. Ponce, D.A., Phelps, G.A., Graymer, R.W., Jachens, R.C., Simpson, R.W., and Wentworth, C.M., 2003, Geophysical anomalies and seismicity suggest a connection between the Hayward and Calaveras faults, eastern San Francisco Bay area, northern California [abs.]: Eos, Transactions, American Geophysical Union, v. 84, no. 46 (supplement), p. F1336.
130. Ponti, D.J., Tinsley, J.C., III, Ehman, K.D., Powell, C.L., II, McDougall, K., Hillhouse, J.W., and Edwards, B.D., 2003, Seawater intrusion of producing aquifers in the Long Beach area, California: Insights from new USGS corehole data [abs.]: Pacific Section, AAPG and Western region, SPE abstract volume, http://www.searchanddiscovery.com/documents/abstracts/spe_aapg2003/ponti.pdf.
131. Potter, C.J., and Moore, T.E., 2003, Brookian structural plays in the National Petroleum Reserve Alaska: U.S. Geological Survey Open-File Report 03-266, 49 p., <http://geopubs.wr.usgs.gov/open-file/of03-266>.
132. Powell, C.L., II, and Graymer, R.W., 2003, Publications of the Western Earth Surface Processes Team 2002: U.S. Geological Survey Open-File Report 03-363. 26 p., <http://geopubs.wr.usgs.gov/open-file/of03-363/>.
133. Powell, R.E., 2003, Digital geologic maps and databases in the Eagle Mts. 30 x 60-minute quadrangle, Riverside County, California [abs.]: Geological Society of America Abstracts with Programs, v. 35, no. 6, p. 73.
134. Redsteer, M., Block, D., and Dyer, H., 2003, Mapping susceptibility of sand dunes to destabilization on the Navajo nation, southern Colorado Plateau [abs.]: Geological Society of America Abstracts with Programs, v. 35, no. 6, p. 170.
135. Roberts, C.W., and Jachens, R.C., 2003, Shaded relief aeromagnetic map of the Santa Clara Valley and vicinity, California: U.S. Geological Survey Open-File Report 03-360, scale 1:100,000, <http://geopubs.wr.usgs.gov/open-file/of03-360>.
136. Roering, J.J., Schmidt, K.M., Stock, J.D., Dietrich, W.E., and Montgomery, D.R., 2003, Shallow landsliding, root reinforcement, and the spatial distribution of trees in the Oregon Coast Range. Canadian Geotechnical Journal, v. 40, no. 2, p. 237-253, http://pubs.nrc-cnrc.gc.ca/cgi-bin/rp/rp2_abst_e?cgi_t02-113_40_ns_nf_cgj2-03.
137. Rowan, E.L., Hayba, D.O., Nelson, P.H., Burns, W.M., and Houseknecht, D.W., 2003, Sandstone and shale compaction curves derived from sonic and gamma ray logs in offshore wells, North Slope, Alaska - parameters for basin modeling: U.S. Geological Survey Open-File Report 03-329, 3 sheets, <http://geopubs.wr.usgs.gov/open-file/of03-329>.
138. Saltus, R.W., and Bird, K.J., 2003, North Alaska petroleum system analysis: The regional map compilation [abs.]: AAPG Annual Convention, Salt Lake City, Utah, May 11-14, 2003, http://aapg.confex.com/aapg/sl2003/techprogram/paper_79676.htm.
139. Saltus, R.W., and Bird, K.J., 2003, North Alaska petroleum system analysis: The regional map compilation: U.S. Geological Survey Open-File Report 03-330, 1 sheet, <http://geopubs.wr.usgs.gov/open-file/of03-330/>.
140. Sanger, E.A., and Glen, J.M.G., 2003, Density and magnetic susceptibility values for rocks in the Talkeetna Mountains and adjacent region, south-central Alaska: U.S. Geological Survey Open-File Report 03-268, 44 p., <http://geopubs.wr.usgs.gov/open-file/of03-268/>.

141. Sanger, E.A., and Ponce, D.A., 2003, Principal facts for gravity stations in the Dry Valley area, west-central Nevada and east-central California. U.S. Geological Survey Open-File Report 03-6, 23 p., <http://geopubs.wr.usgs.gov/open-file/of03-6/>.
142. Schmidt, K.M., 2003, Highlights: Discoveries in the Earth Sciences, Mapping: Geotimes, v. 48, no. 7, p. 22-23.
143. Schmidt, K.M., and McMackin, M., 2003, Quaternary geology of the Mesquite Lake 1:100,000-scale quadrangle, California and Nevada [abs.]: Geological Society of America Abstracts with Programs, v. 35, no. 6, p. 73.
144. Schmidt, K.M., and McMackin, M., 2003, Quaternary Geology of the Mesquite Lake 1:100,000-scale quadrangle, California and Nevada [abs.]: XVI INQUA Congress Programs with Abstracts, p. 139.
145. Schmidt, K.M., and Menges, C.M., 2003, Debris-flow deposits and watershed erosion rates near southern Death Valley, CA, United States, *in* Debris-flow hazards mitigation: Mechanics, prediction, and assessment: Davos, Switzerland, Millpress, p. 219-230.
146. Schuenemeyer, J.H., 2003, Methodology and results from the assessment of oil and gas resources, National Petroleum Reserve, Alaska: U. S. Geological Survey Open-File Report 03-118, 201 p., <http://geopubs.wr.usgs.gov/open-file/of03-118/>.
147. Stamos, C.L., Cox, B.F., Izbicki, J.A., and Mendez, G.O., 2003, Geologic setting, geohydrology and ground-water quality near the Helendale fault in the Mojave River basin, San Bernardino County, California: U.S. Geological Survey Water-Resources Investigations Report 03-4069, 44 p.
148. Stevens, C.H., Stone, P., and Greene, D.C., 2003, Correlation of Permian and Triassic deformations in the western Great Basin and eastern Sierra Nevada: evidence from the northern Inyo Mountains near Tinemaha Reservoir, east-central California: Reply : Geological Society of America Bulletin, v. 115, no. 10, p. 1309-1311.
149. Stewart, R.J., Wooden, J., Brandon, M.T., Vance, J., and Wells, R.W., 2003, U-Pb SHRIMP ages from detrital zircons in the Grand Valley and western Olympic lithic assemblages, Olympic subduction complex, Washington [abs.]: Geological Society of America Abstracts with Programs, v. 35, no. 6, p. 512.
150. Stoffer, P.W., 2003, Geology of Badlands National Park: A preliminary report: U.S. Geological Survey Open-File Report 03-35, 65 p., <http://geopubs.wr.usgs.gov/open-file/of03-35/>.
151. Stoffer, P.W., Phillips, E., and Messina, P., 2003, Anaglyph image technology as a visualization tool for teaching geology of National Parks [abs.]: Eos, Transactions, American Geophysical Union, v. 84, no. 46 (supplement), p. 441-442.
152. Swinchatt, J.P., and Howell, D.G., 2003, Geology, terroir, and the winemaker's dance [abs.]: Geological Society of America Abstracts with Programs, v. 35, no. 6, p. 186.
153. Thoms, E., 2003, An architecture for digital geologic data collection with ArcPad GIS software [abs.]: Geological Society of America Abstracts with Programs, v. 35, no. 6, p. 262.

154. Troutman, S.M., and Stanley, R.G., 2003, Map and digital database of sedimentary basins and indications of petroleum in the central Alaska Province: U.S. Geological Survey Open-File Report 02-483, 1 sheet, <http://geopubs.wr.usgs.gov/open-file/of02-483/>.
155. Vittori, E., Carver, G.A., Jayko, A.S., Michetti, A., and Slemmons, D.B., 2003, Quaternary fault map of Owens Valley, eastern California. XVI INQUA Conference Programs with Abstracts, p. 106.
156. Walker, J.P., and Graymer, R.W., 2003, Absence of late Neogene offset on the northern Calaveras fault [abs.]: Eos, Transactions, American Geophysical Union, v. 84, no. 46 (supplement), p. F1355.
157. Wang, K., Wells, R., Mazzotti, S., Hyndman, R.D., and Sagiya, T., 2003, A revised dislocation model of interseismic deformation of the Cascadia subduction zone: Journal of Geophysical Research, v. 108, B1, 2026, doi:10.1029/2001JB001227, p. ETG9-1-13.
158. Wardwell, R.S., Laurent, K.G., Skog, J.O., and Soller, D.R., 2003, The NGMDB geologic map image library - delivering scanned geologic maps online [abs.]: Geological Society of America Abstracts with Programs, v. 35, no. 6, p. 277.
159. Wells, R.E., Blakely, R.J., Sugiyama, Y., Scholl, D.W., and Dinterman, P.A., 2003, Basin-centered asperities in great subduction zone earthquakes: A link between slip, subsidence, and subduction erosion?: Journal of Geophysical Research, v. 108, B10, 2507, doi:10.1029/2002JB002072, p. ESE16-1-30.
160. Wells, R.E., 2003, Tectonics of the Cascade arc [abs.]: Geological Society of America Abstracts with Programs, v. 35, no. 6, p. 643.
161. Wells, R.E., Blakely, R.J., Sugiyama, Y., Scholl, D., and Dinterman, P., 2003, Landward limit of coseismic slip in great subduction zone earthquakes - Implications for great earthquakes in Cascadia [abs.]: Geological Society of America Abstracts with Programs, v. 35, no. 6, p. 477.
162. Wentworth, C.M., Hanson, C.M., Jachens, R.C., Langenheim, V.E., McLaughlin, R.J., Phelps, G., Simpson, R.W., Stanley, R.G., and Williams, R.A., 2003, Buried evidence for a blind thrust fault beneath the southwestern Santa Clara (Silicon) Valley, California: A product of 3-dimensional map analysis [abs.]: Geological Society of America Abstracts with Programs, v. 35, no. 6, p. 74.
163. Wentworth, C.M., Hanson, R.T., Newhouse, M., Jachens, R.C., Mankinen, E.A., Phelps, G., Tinsley, J.C., Williams, C.F., Williams, R.A., Anderson, D.W., and Metzger, E.A., 2003, Stratigraphy and hydrogeology of the Santa Clara Valley, San Francisco Bay Region, California: a progress report: American Association Petroleum Geologists, Pacific Section, Conference Program and Abstracts, May 19-24, Long Beach, p. 94.
164. Woodley, R.J., Yerkes, R.F., Langenheim, V.E., and Chuang, F.C., 2003, Isostatic gravity map with simplified geology of the Los Angeles 30 x 60 minute quadrangle: U.S. Geological Survey Open-File Report 03-269, scale 1:100,000, <http://geopubs.wr.usgs.gov/open-file/of03-269/>.