

RESUME of G. Randy Keller, Jr.

Education:

B.S. Mathematics (with Honors); Texas Tech University (1968)

M.S. Geosciences (Geophysics); Texas Tech University (1969)

Ph.D. Geosciences (Geophysics); Texas Tech University (1973)

Professional Record:

Jan. 2009 – Present – Director, Oklahoma Geological Survey

July 2006 – Present – Professor and Edward Lamb McCollough Chair in Geophysics,
University of Oklahoma

October 2007 – Present – Interim Director, Oklahoma Geological Survey

Sept. 1993 – July 2006 - L.A. Nelson Professor, University of Texas at El Paso (UTEP)

Sept. 1982–July 2006 - Professor of Geophysics, Dept. of Geological Sciences (UTEP)

Oct. 1981 - Sept. 1998- Chairman, Department of Geological Sciences (UTEP)

Oct. 1980 - April 1989 - Director, J. W. Miller Memorial Geophysical Laboratory

July 1976 - Oct. 1991 - Consultant, Los Alamos Scientific Laboratory

Sept. 1978 - Aug. 1982 - Associate Professor, University of Texas at El Paso

Sept. 1976 - May 1987 - Director, Seismological Observatory (UTEP)

July 1976 - Aug. 1978 - Assistant Professor, University of Texas at El Paso

Aug. 1973 - July 1976 - Assistant Professor, University of Kentucky

July 1972 - Aug. 1973 - Research Assoc./Research Assistant Professor, Univ. of Utah

Sept. 1970 - May 1971 - Instructor, Texas Tech University

June 1970 - Aug. 1970 - Research Assistant, Mobil Research and Development

Professional Societies:

American Geophysical Union, Royal Astronomical Society (Fellow), Geological Society of America (Fellow), Seismological Society of America, Society of Exploration Geophysicists, American Association of Petroleum Geologists, American Association for the Advancement of Science, El Paso Geological Society (Life Member), European Geoscience Union, Society for the Advancement of Chicanos and Native Americans in Science, Oklahoma City Geological Society, Geophysical Society of Oklahoma City

Professional License: Professional Geoscientist (License # 6735, Texas)

Selected Professional Activities:

Founding Editor – Geosphere – On-line journal -Geological Society of America (2004 -)

Associate Editor - GEOPHYSICS - Journal of the Society of Exploration Geophysicists (1982-83; 1987-)

*Associate Editor – Geophysical Journal International (2004 -)

Associate Editor - Studia Geophysica & Geodetica (2005 -)

Advisory Board – Acta Geophysica (2006 -)

Associate Editor - Journal of Geophysical Research (1994-97)

Associate Editor - Geological Society of America Bulletin (1983 -89)

Associate Editor - Tectonophysics Special Volume on Rifting (1981-1982)

Guest Associate Editor - Journal of Geophysical Research, Rio Grande Rift Special Issue (1984-1985)

Program Committee - International Rift Conference (Santa Fe, 1978), included editorial work on a special volume published by the American Geophysical Union in 1979

*Geology Advisory Committee - New Mexico Museum of Natural History (1984-90)

Executive Committee - Rio Grande Rift Consortium (1982-94); Chair (1984-94)

Incorporated Research Institutions for Seismology: Board of Directors (1984-2000); PASSCAL Science Planning and Coordination Comm. - PASSCAL (1984-91); Executive Committee (1996-98) and Vice-Chair (1997-98); Chair Program Coordination and Finance Committees (1997-98); Science Task Force (1999-2000), Planning Committee (2006 -)

*Society of Exploration Geophysicists: Gravity Anomaly Map Com. (1979-83); District 3 Representative to the Council (1996-97)

*Geological Society of America: Chair South Central Section (1991-92); Secretary/Treasurer - Geophysics Division (1990-2003); Nominations Committee (1997-98); Annual Meeting Program Committee (1996-98); External Awards Committee (2000); Day Award Committee (2003-2006); Wollard Award Committee (2003-2005); Publications Committee (2004-); Geoinformatics Division - First Vice Chair (2006-2007); Chair (2007-08); Councilor (2007-11)

*American Association of Petroleum Geologists: President SW Section (1987); Academic Liaison Committee (1998-); House of Delegates (2000-2006); Vice President SW Section (2005-06)

American Geological Institute – Human Resource Committee (1999-2004); Geoscience Workforce Committee (2005 -)

National Academy of Sciences - Continental Tectonics Panel (1979-80); Rio Grande/Baikal Rifts Panel (1988-89), Sedimentary Basins and Basin Analysis

Panel (1988-90)

National Science Foundation – Geoinformatics steering group (2000-2002)

National Science Foundation - Steering Committee for Earth Sciences – Cyberinfrastructure (2003)

National Science Foundation – EarthScope Steering Committee (2007 -)

Honorary Societies:

Sigma Xi, Sigma Gamma Epsilon, Phi Kappa Phi, Kappa Mu Epsilon

Awards:

A.I. Levorsen Memorial Award - American Association of Petroleum Geologists (1976)

Paper presented at AAPG meeting picked for "Best of AAPG" session at SEG convention (1980)

Directed Theses (by R.L. Coultrip and Federico Moreno) that were chosen as "Most Outstanding Thesis" within the University (1983, 1995 respectively)

MAGSAT Scientific Investigation Team, Group Achievement Award, NASA (1984)

Distinguished Achievement Award in Research, U. T. El Paso (1985)

Elected Fellow: Geological Soc. of America (1991), Royal Astronomical Society (1980)

Southwest Section AAPG - Distinguished Educator Award (1998); West Texas Geological Soc.-Service Award (1998)

Geological Society of America (Geophysics Division) – G. P. Woollard Award (2002)

Elected to Foreign Membership in the Polish Academy of Sciences (2005)

American Association of Petroleum Geologists - Grover E. Murray Memorial Distinguished Educator Award (2006)

Honorary Life Membership – El Paso Geological Society (2006)

Outstanding Achievement in Research – University of Texas at El Paso (2006)

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Married, 2 children Birth date: April 17, 1946 Birthplace: Muskogee, OK

Books and Volumes Edited

Keller, G. R. and S. M. Cather, 1994, **Basins of the Rio Grande Rift: Structure Stratigraphy, and Tectonic Setting**: Geological Society of America, Special Paper 291, 304 p.

Prodehl, C., G. R. Keller, and M. A. Khan, 1994, **Crustal and Upper Mantle Structure of the Kenya Rift**: Tectonophysics, v. 236, 483 pp.

Karlstrom, K. E. and G. R. Keller, 2005, **The Rocky Mountain Region -- An Evolving Lithosphere: Tectonics, Geochemistry, and Geophysics**: American Geophysical Union, Geophysical Monograph 154, 434p.

Articles Published

1. Shurbet, D. H. and G. R. Keller, 1972, Generation of microseisms by atmospheric coupling: Texas Jour. Science, v. 23, p. 471-478.

2. Keller, G. R. and S. E. Cebull, 1973, Plate tectonics and the Ouachita System in Texas, Oklahoma and Arkansas: Geological Society America Bulletin, v. 84, p. 1659-1666.

3. Cebull, S.E. and G. R. Keller, 1973, Reply to the discussion on "Plate Tectonics and the Ouachita System in Texas, Oklahoma and Arkansas" by Griffin: Geological Society America Bulletin, v. 85, p. 147-148.

4. Braile, L.W., G. R. Keller, and W.J. Peeples, 1974, Inversion of gravity data for two-dimensional density distributions: Journal of Geophysical Research, v. 79, p. 2017-2021.

5. Braile, L.W., R.B. Smith, G. R. Keller, R.M. Welch, and R.P. Meyer, 1974, Crustal structure across the Wasatch Front from detailed seismic refraction studies: Journal of Geophysical Research, v. 79, p. 2669-2677.

6. Keller, G. R., R.B. Smith, and L.W. Braile, 1975, Crustal structure along the Great Basin-Colorado Plateau transition from seismic refraction studies: Journal of Geophysical Research, v. 80, p. 1083-1098.

7. Braile, L.W. and G. R. Keller, 1975, Fine structure of the crust inferred from linear inversion of Rayleigh wave dispersion: Bulletin Seismological Society of America, v. 65, p. 71-83.

8. Keller, G. R. and D.H. Shurbet, 1975, Crustal structure of the Texas Gulf Coastal Plain: Geological Society America Bulletin, v. 86, p. 807-810.

9. Smith, R.B., L.W. Braile, and G. R. Keller, 1975, Crustal low velocity layers: Possible effect of high temperatures over a mantle upwarp at the Basin Range-Colorado Plateau transition: Earth and Planetary Science Letters, v. 28, p. 197-204.

10. Cebull, S.E., D.H. Shurbet, G. R. Keller, and L.R. Russell, 1976, Possible role of transform faults in the development of apparent offsets in the Ouachita-Southern Appalachian tectonic belt: Journal of Geology, v. 84, p. 107-114.
11. Shurbet, D.H., G. R. Keller, and J.P. Freiss, 1976, Remanent magnetization from comparison of gravity and magnetic anomalies: Geophysics, v. 41, p. 56-66.
12. Keller, G. R. and *H.E. Adams*, 1976, A reconnaissance microearthquake survey of the San Luis Valley, Southern Colorado: Bulletin Seismological Society of America, v. 66, p. 345-347.
13. Keller, G. R., R.B. Smith, L.W. Braile, R. Heaney, and D.H. Shurbet, 1976, Upper crustal structure of the eastern Basin and Range, northern Colorado Plateau, and Middle Rocky Mountains determined from Rayleigh wave dispersion: Bulletin Seismological Society of America, v. 66, p. 869-876.
14. Cebull, S.E. and G. R. Keller, 1976, Plate tectonics model for the Ouachita fold belt: Comment: Geology, v. 4, p. 636-637.
15. Langer, C.J., G. R. Keller, and R.B. Smith, 1979, A study of the aftershocks of the October 1, 1972, mb-4.7, Heber City, Utah earthquake: in Earthquake Studies in Utah, 1850-1978, A.J. Arabaz, R.B. Smith, and W.D. Richins (eds.), Univ. of Utah, p. 383-394.
16. *Ammerman, M.L.* and G. R. Keller, 1979, Delineation of the Rome Trough in eastern Kentucky with gravity and deep drilling data: American Association of Petroleum Geologists Bulletin, v. 63, p. 341-355.
17. Keller, G. R., L.W. Braile, and J.W. Schlue, 1979, Regional crustal structure of the Rio Grande rift from surface wave dispersion measurements: in Rio Grande Rift: Tectonics and Magmatism, R.E. Riecker (ed.): Am. Geophys. Union, Spec. Pub., p. 115-126.
18. Olsen, D.H., G. R. Keller, and J.N. Stewart, 1979, Crustal structure along the Rio Grande rift from seismic refraction profiles: in Rio Grande Rift: Tectonics and Magmatism, R.E. Riecker (ed.): Am. Geophys. Union, Spec. Pub., p. 127-14.
19. Black, D.F.B., G. R. Keller, and R.W. Johnson, 1979, Basement control of exposed geological features in central Kentucky as inferred from tectonic, aeromagnetic and gravity data: in Proceedings 2nd International Conf. on Basement Tectonics, M.H. Polwyssocki and J.L. Earle (eds.): Basement Tectonics Com., Denver, p. 1-9.
20. Keller, G. R., L.W. Braile, and P. Morgan, 1979, Crustal structure, geophysical models and contemporary tectonism of the Colorado Plateau: Tectonophysics, v. 61, p. 131-147.
21. Keller G. R., R.F. Roy, *N. Duet*, *R.G. Graham*, and *B. Taylor*, 1979, A regional gravity study of Trans-Pecos Texas: Univ. of Texas, Bur. Econ. Geol., Guidebook 19, A.W. Walton and C.D. Henry (eds.), p. 28-32.

22. Taylor, B., R.F. Roy, and G. R. Keller, 1979, Geothermics in Trans-Pecos Texas: Preliminary findings: Geothermal Res. Coun. Trans., v. 3, p. 713-715.
23. Hinze, W.J., L.W. Braile, G. R. Keller, and E.G. Lidiak, 1980, Models for midcontinent tectonism, in Continental Tectonics: National Academy of Sciences, Studies in Geophysics, p. 73-83.
24. Veldhuis, J.H., and G. R. Keller, 1980, An integrated geological and geophysical study of the Salt Flat basin: New Mex. Geol. Soc., 31st Field Conf. Guidebook, p. 141-150.
25. Keller, G. R., J.M. Hills, and R. Djeddi, 1980, A regional geological and geophysical study of the Delaware basin: New Mex. Geol. Soc., 31st Field Conf. Guidebook, p. 105-111.
26. Mraz, J.R., and G. R. Keller, 1980, Structure of the Presidio Bolson area, Texas, interpreted from gravity data: Bur. Econ. Geol., Univ. of Texas, Geological Circ., 80-13, 20 p.
27. Keller, G. R., and D.R. Russell, 1980, A crustal structure study of the African continent: Annals Geol. Survey of Egypt, v. 10, p. 955-960.
28. Soderberg, R.K., and G. R. Keller, 1981, Geophysical evidence for deep basin in western Kentucky: American Association of Petroleum Geologists Bulletin, v. 65, p. 226-234.
29. Gish, D.M., G. R. Keller and M.L. Sbar, 1981, A refraction study of deep crustal structure of the Basin and Range-Colorado Plateau transition zone in eastern Arizona: Journal of Geophysical Research, v. 86, p. 6029-6038.
30. Keller, G. R., M.L. Ammerman, and A.E. Bland, 1981, A geophysical and tectonic study of central and eastern Kentucky with emphasis on the Rome Trough: Kentucky Geol. Survey, Spec. Pub. 4, p. 41-48.
31. Morgan, P., G. R. Keller, and F.K. Boulous, 1981, Earthquake cannons in the Egyptian eastern desert: Bulletin Seismological Society of America, v. 71, p. 551-554.
32. Sinno, Y.A., G. R. Keller, and M.L. Sbar, 1981, A crustal seismic refraction study in west-central Arizona: Journal of Geophysical Research, v. 86, p. 5023-5038.
33. Keller, G. R., and others, 1981, A regional geophysical study of southern Trans-Pecos Texas: Permian Basin Sec. SEPM, Guidebook, p. 102-109.
34. Lance, J.O. and G. R. Keller, 1981, A regional gravity study of southwestern New Mexico and adjacent areas: El Paso Geol. Soc. Guidebook, p. 84-90.
35. Aiken, C.L.V., D.L. Garvey, G. R. Keller, P.C. Goodell, and M. de la Fuente Duch, 1981, A regional geophysical study of the Chihuahua City area, Mexico: American Association of Petroleum Geologists, Studies in Geol., no. 13, p. 311-328.
36. Keller, G. R., J.M. Kruger, C.L.V. Aiken, and K.C. Neilsen, 1982, Regional gravity anomalies in the Ouachita Mountains area: Geol. Soc. Am. Guidebook, South-Cent. Sect. Mtg., p. 13-16.

37. Hinze, W.J., R.R.B. von Frese, M.B. Longacre, L.W. Braile, E.G. Lidiak, and G. R. Keller, 1982, Regional magnetic and gravity anomalies of South America: Geophysical Research Letters, v. 9, p. 314-317.
38. Braile, L.W., G. R. Keller, W.J. Hinze, and E.G. Lidiak, 1982, An ancient rift complex and its relation to contemporary seismicity in the New Madrid seismic zone: Tectonics, v. 1, p. 225-237.
39. Keller, G. R., *A.E. Bland*, and *J.K. Greenberg*, 1982, Evidence for a major late Precambrian tectonic event (rifting?) in the eastern midcontinent region, U.S.A.: Tectonics, v. 1, p. 213-223.
40. *Russell, D.R.*, G. R. Keller, and L.W. Braile, 1982, A technique to determine the three dimensional attitude and true velocity of a refractor: Geophysics, v. 47, p. 1331-1334.
41. Braile, L.W., W.J. Hinze, J.L. Sexton, G. R. Keller, and E.G. Lidiak, 1982, Seismicity and tectonics of the midcontinent United States: Proceedings 3rd International Conf. on Microzonation, p. 25-38.
42. *Lance, J.O., Jr.*, G. R. Keller, and C.L.V. Aiken, 1982, A regional geophysical study of the western overthrust belt in southwestern New Mexico, West Texas, and northern Chihuahua: Rocky Mt. Assoc. Geol., Cordilleran Thrust Belt Vol., p. 467-473.
43. *Austin, C.B.* and G. R. Keller, 1982, A crustal structure study of the Mississippi Embayment: U.S. Geol. Survey, Professional Paper, no. 1236, p. 81-83.
44. Braile, L.W., W.J. Hinze, G. R. Keller and E.G. Lidiak, 1982, the northeastern extension of the New Madrid Fault Zone: U.S. Geol. Survey, Professional Paper, no. 1236, p. 173-184.
45. Marston, R.A., *R.L. Hoffer*, P.C. Goodell, and G. R. Keller, 1982, An integrated Landsat-geological-geophysical-geochemical survey for mineral occurrence in west-central Utah: Proceedings International Symposium on Remote Sensing of the Environment, Second Thematic Conf., Remote Sensing for Exploration Geology: Ft. Worth, TX, p. 843-851.
46. Keller, G. R., E.G. Lidiak, W.J. Hinze, and L.W. Braile, 1983, The role of rifting in the tectonic development of the midcontinent, USA: Tectonophysics, v. 94, p. 391-412.
47. Pingitore, N.E., *J.S. Schmidt*, and G. R. Keller, 1983, Radiometric map of the Diablo platform and adjoining area: Surface uranium activity: Permian Basin Sec. SEPM, Pub. 83-22, p. 166-169.
48. Keller, G. R., *J.H. Veldhuis*, and D.W. Powers, 1983, An analysis of gravity and magnetic anomalies in the Diablo plateau area: Permian Basin Sect., SEPM, Pub. 83-22, p. 152-165.
49. Aiken, O.W., G. R. Keller and W.J. Hinze, 1983, Geological significance of surface gravity measurements in the vicinity of the Illinois deep drill hole: Journal of Geophysical Research, v. 88, p. 7307-7314.
50. Aiken, C.L.V., J. Grotte, G. R. Keller, and *W.M. Voight*, 1983, Gravity anomalies in northern Chihuahua: El Paso Geol. Soc. Guidebook, 1983 Field Conf., p. 120-128.

51. Keller, G. R., 1983, Bouguer gravity anomaly map of the Socorro region: New Mex. Geol. Soc., 34th Field Conf. Guidebook, p. 96.
52. Keller, G. R., L. Cordell, G.H. Davis, W.J. Peeples, and G. White, 1984, A geophysical study of the San Luis Basin: New Mex. Geol. Soc., 35th Field Conf. Guidebook, p. 51-57.
53. Cordell, L. and G. R. Keller, 1984, Regional structural trends inferred from gravity and aeromagnetic data in the New Mexico-Colorado border region: New Mexico Geol. Soc., 35th Field Conf. Guidebook, p. 21-23 (2 plates).
54. Keller, G. R., W.J. Peeples, and C.L.V. Aiken, 1984, Gravity anomalies in northern Chihuahua: An update: West Texas Geol. Soc., Pub. 84-80, p. 206-212.
55. Keller, G. R. and E.A. Dean, 1984, Forward to seismic waves: Anisotropy, fluid saturation, and slanting interfaces: Colorado School of Mines Quarterly, v. 79, p. v-vi.
56. Lidiak, E.G., W.J. Hinze, and C.L.V. Aiken, 1985, Regional significance of regional gravity and magnetic anomalies in the east-central Midcontinent: Soc. Exploration Geophysicists, Spec. Pub., Utility of Regional Gravity and Magnetic Anomaly Maps, p. 287-307.
57. Keller, G. R., R.A. Smith, W.J. Hinze, and C.L.V. Aiken, 1985, A regional gravity and magnetic study of West Texas: Soc. Exploration Geophysicists, Spec. Pub., Utility of Regional Gravity and Magnetic Anomaly Maps., p. 198-212.
58. Keller, G. R. and W.J. Peeples, 1985, Regional gravity and aeromagnetic anomalies in West Texas: West Texas Geol. Soc., Pub. 85-81, p. 101-105.
59. Suleiman, A.S. and G. R. Keller, 1985, A geophysical study of basement structure in northeastern New Mexico: New Mexico. Geol. Soc., 36th Field Conf. Guidebook, p. 153-159.
60. Keller, G. R., 1986, Introduction to special section on the Rio Grande rift: Journal of Geophysical Research, v. 9, p. 6142.
61. Sinno, Y.A., P.H. Daggett, G. R. Keller, P. Morgan, and S.H. Harder, 1986, Crustal structure of the southern Rio Grande rift determined from seismic refraction profiling: Journal of Geophysical Research, v. 91, p. 6143-6156.
62. Daggett, P.H., G. R. Keller, P. Morgan, and C. Wen, 1986, Structure of the southern Rio Grande rift from gravity interpretation: Journal of Geophysical Research, v. 91, p. 6157-6167.
63. Sinno, Y.A. and G. R. Keller, 1986, A Rayleigh wave dispersion study between El Paso, Texas and Albuquerque, New Mexico: Journal of Geophysical Research, v. 91, p. 6168-6174.

64. Olsen, K.H., L.W. Braile, J.N. Stewart, C.R. Daudt, G. R. Keller, L.A. Ankeny, and J.J. Wolff, 1986, Jemez Mountains volcanic field, New Mexico: Time term interpretation of the CARDEX seismic experiment and comparison with Bouguer gravity: Journal of Geophysical Research, v. 91, p. 6175-6187.
65. *Kruger, J.R.* and G. R. Keller, 1986, Interpretation of crustal structure from regional gravity anomalies, Ouachita Mountains area and adjacent Gulf coastal plain: American Association of Petroleum Geologists Bulletin, v. 70, p. 667-689.
66. Braile, L.W., W.J. Hinze, J.L. Sexton, G. R. Keller and E.G. Lidiak, 1986, Tectonic development of the New Madrid Seismic zone: Tectonophysics, v. 131, p. 1-21.
67. *Kruger, J.M.* and G. R. Keller, 1986, Regional gravity anomalies in the Ouachita Mountains area: Arkansas Geol. Com., Guidebook 86-2, Part 1, p. 85-97.
68. Keller, G. R., W.R. Seager, and S. Thompson III, 1986, A seismic reflection study of part of the southern Jornada del Muerto: New Mexico Geol. Soc., 37th Field Conf. Guidebook, p. 139-142.
69. Harder, S., G. R. Keller, D.H. Daggett, and Y.A. Sinno, 1986, Cenozoic fill thickness estimates from P-wave delays in the Jornada del Muerto and Palomas basins: New Mexico Geol. Soc., 37th Field Conf. Guidebook, p. 135-138.
70. *Gilmer, A.L., R.A. Mauldin,* and G. R. Keller, 1986, A gravity study of the Jornada del Muerto and Palomas Basins: New Mexico Geol. Soc., 37th Field Conf. Guidebook, p. 131-134.
71. Peeples, W.J., R. Coultrip, and G. R. Keller, 1986, Quasi-ideal spatial filters for large maps: Annales Geophysicae, v. 4, p. 547-554.
72. KRISP Working Group (G. R. Keller, U.S. Team Leader), 1987, Structure of the Kenya rift from seismic refraction: Nature, v. 325, p. 239-242.
73. *Handschy, J.W.,* G. R. Keller, and *K.J. Smith*, 1987, The Ouachita system in northern Mexico: Tectonics, v. 6, p. 323-330.
74. Keller, G. R., A.M. Rogers, and *C.D. Orr*, 1987, Seismic activity in the Permian basin area of west Texas and southeastern New Mexico, 1975-79: Seismological Research Letters, v. 58, p. 63-70.
75. Keller, G. R., 1988, The development of gravity and magnetic studies, emphasizing articles published in the Geological Society of America Bulletin: Geological Society of America Bulletin (Centennial Article), v. 100, p. 469-478.
76. Keller, G. R. and J. M. Hills, 1988, Basement structure and geophysical anomalies in southeastern New Mexico: Roswell Geol. Soc. Symp., Oil and Gas Fields of Southeastern New Mexico, p. 82-89.

77. Keller, G. R. and J.D. Hoover, 1988, A comparison of the Newark and Rio Grande Rift systems and associated magmatism, *in* W. Manspeizer (ed.), Triassic-Jurassic Rifting: Elsevier, Developments in Geotectonics, v. 22, p. 911-932.
78. DeAngelo, M.V. and G. R. Keller, 1988, Geophysical anomalies in southwestern New Mexico: New Mexico Geol. Soc., 39th Field Conf. Guidebook, p. 71-79.
79. Hinze, W.J., L.W. Braile, G. R. Keller, and E.G. Lidiak, 1988, Midcontinent tectonism - An update: Reviews of Geophysics, v. 26, p. 699-717.
80. Chang, W., G.A. McMechan, and G. R. Keller, 1989, Wave field processing of data from a large-aperture seismic experiment in southwestern Oklahoma: Journal of Geophysical Research, v., 94, p. 1803-1816.
81. Keller, G. R., L.W. Braile, G.A. McMechan, W.A. Thomas, S.H. Harder, W. Chang, and W.G. Jardine, 1989, The Paleozoic continent-ocean transition in the Ouachita Mountains imaged from PASSCAL wide-angle seismic reflection-refraction data: Geology, v. 17, p. 119-122.
82. Keller, G. R., J.F. Callender, J.W. Hawley, R.M. Chamberlin, C.F. Kluth, K.H. Olsen, R.P. Lozinsky, 1989, Rio Grande Rift - Field Trip Guidebook (T318): International Geological Congress, Am. Geophys. Union, Washington, D.C., 37 p
83. Keller, G. R., 1989, Geophysical evidence for the presence of a Paleozoic San Antonio basin, *in* T.E. Ewing (ed.): South Texas Geol. Soc. Fieldtrip Guidebook, p. 50-54.
84. Khan, M.A., P.K.H. Maguire, W. Henry, M. Higham, C. Prodehl, J. Mechie, and G. R. Keller, 1989, A crustal seismic refraction line along the axis of the southern Kenya rift: African Journal of Earth Sciences, v. 8, p.455-460.
85. Keller, G. R., J.M. Kruger, K.J. Smith, and W.M. Voight, 1989, The Ouachita system: A geophysical overview, *in* Hatcher, R.D., Jr., Thomas, W.A., and Viele, G.W. (eds.), The Appalachian-Ouachita Orogen in the United States: Geological Society of America, The Geology of North America, v. F-2., p. 689-694.
86. Braile, L.W., W.J. Hinze, R.R.B. von Frese, and G. R. Keller, 1989, Seismic properties of the crust and uppermost mantle of the conterminous United States and adjacent Canada, *in* Pakiser, L.C., and Mooney, W.D., Geophysical framework of the continental United States: Geological Society of America Memoir 172, p. 655-680.
87. Keller, G. R., J.M. Hills, M.R. Baker and E. Timothy Wallin, 1989, Geophysical and geochronological constraints on the extent and age of mafic intrusions in the basement of West Texas and eastern New Mexico: Geology, v. 17, p. 1049-1052.

88. *Jenkins, R.D.* and G. R. Keller, 1989, Interpretation of basement structures and geophysical anomalies in the southeastern Colorado Plateau: New Mexico Geol. Soc., 40th Field Conf. Guidebook, p. 135-142.
89. Keller, G. R. and J.R. Dyer, 1989, The Paleozoic margin of North America in West Texas and Northern Mexico: Geofísica Internacional, v. 28, p. 897-906
90. Keller, G. R., J.H. Hinojosa, J.R. Dyer, C.L.V. Aiken, and J.M. Hoffer, 1989, Preliminary investigations of the extent of the Rio Grande rift in the northern portion of the State of Chihuahua: Geofísica Internacional, v. 28, p. 1043-1049.
91. Robbins, S.L., M.J. Jones-Cecil and G. R. Keller, Jr., 1989, Regional Gravity of the Anadarko Basin Area and a more detailed look at the Wichita Frontal Fault Zone, Oklahoma: U. S. Geological Survey, Circ. 90, p. 225-227.
92. Pingitore, N.E., G. R. Keller, J.S. *Schmidt*, 1990, Radiometric maps of the Permian basin: Surface Uranium and Potassium activity derived from NURE program data: West Texas Geological Society Bulletin, v. 29, p. 5-11.
93. Keller, G. R., P. Morgan, and W.R. Seager, 1990, Crustal structure, gravity anomalies, and heat flow in the southern Rio Grande rift and their relationship to extensional tectonics: Tectonophysics, v. 174, p. 21-37.
94. Henry, W.J., J. Mechie, P.K.H. Maguire, M.A. Khan, C. Prodehl, G. R. Keller and J. Patel, 1990, A seismic investigation of the Kenya Rift Valley: Geophysical Journal International, v. 100, p. 107-130
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3. Sinno, Y. A., 1984, Crustal structure of the southern Rio Grande rift determined from seismic refraction, surface wave dispersion, and gravity data.
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