

VITA

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Education:

B.A. Mathematics	1975	Middlebury College, Middlebury, VT
B.A. Geology	1975	Middlebury College, Middlebury, VT
Ph.D Geophysics	1981	University of Utah, Salt Lake City, UT
Ph.D. Dissertation:		Time Dependent Thermal Modeling of Plate Tectonic Processes

Professional Positions:

1976-1981	Research Assistant, Department of Geology and Geophysics, University of Utah, Salt Lake City, UT
1981-1984	Assistant Professor of Geophysics, Department of Geology and Geophysics, University of Wyoming, Laramie, WY
1984-1987	Adjunct Assistant Professor of Geophysics, University of Wyoming, Laramie WY
1984-1986	Assistant Professor of Geosciences, Department of Geosciences, The Pennsylvania State University, University Park, PA
1986-1991	Associate Professor of Geosciences, Department of Geosciences, The Pennsylvania State University [Tenure Granted 1988]
1986-Present	Faculty Affiliate, Earth System Science Center, The Pennsylvania State University
1989	Gastdocent (Visiting Associate Professor), Institute for Earth Sciences Department of Theoretical Geophysics, University of Utrecht, The Netherlands
1991-Present	Professor of Geosciences, Department of Geosciences, The Pennsylvania State University
1994	Visiting Professor of Geology, Middlebury College, Middlebury, VT
1998-2009	Director of EMS Environment Institute <i>Natural Hazards Center</i>
2001.	Associate Head (Graduate Education and Research), Department of Geosciences
2003.]Fulbright Senior Scholar – New Zealand (Based at Victoria University of Wellington) Visiting Professor of Geophysics, Institute of Geophysics, Victoria University of Wellington
2010	Visiting Erskine Fellow, University of Canterbury, Christchurch, NZ
2011	Visiting Professorial Fellow, Earth and Ocean Sciences, University of Waikato

Awards:

1988	Pennsylvania State University, College of Earth and Mineral Sciences Wilson Outstanding Teaching Award
1993	Pennsylvania State University, College of Earth and Mineral Sciences Wilson Outstanding Research Award
2000	Pennsylvania State University, College of Earth and Mineral Sciences Mitchell Award for Innovative Teaching
2002	Pennsylvania State University, Eisenhower Award for Excellence in Teaching

- 2002 Fulbright Senior Scholar (Research/Lecture Award for New Zealand)
 2008 Elected Fellow of Geological Society of America
 2010 Erskine Fellow, University of Canterbury, New Zealand
 2013 Elected Fellow of the American Association for the Advancement of Science (AAAS)

Editorships:

- 1984-1987 Associate Editor, *Geophysical Research Letters*
 1989-1994 Associate Editor, *GSA Bulletin*
 1992-1994 Associate Editor, *Tectonophysics*
 1993-1997 Editor, *Reviews of Geophysics*
 1994 -2007 Editor, *Tectonophysics*
 2004 -2007 Associate Editor, *Geology*
 2007- Associate Editor *Tectonophysics*
 2017- Associate Editor *Science Advances* (AAAS)

Service to Professional Societies:

- 1986-1987, Program Chairman - Tectonophysics Section, Fall Meeting of the American Geophysical Union
 1990-1991
 1987-2003 IASPEI (International Association of Seismology and Physics of the Earth's Interior) Commission on Geodynamics and Tectonophysics - Secretary
 Chair - Lithospheric Dynamics Working Group
 1989-1996 IAG (International Association of Geodesy) Working Group in Kinematic and Dynamic Modeling in Geophysics and Geodesy
 1988-1990, American Geophysical Union, Meetings Committee
 1992-1994 American Geophysical Union, Meetings Committee
 1990-1992 Secretary, Tectonophysics Section, American Geophysical Union
 1992-1995 National Meetings Chairman, American Geophysical Union
 1996-2003 Member US National Committee IUGG (NAS/NRC Committee; IASPEI Representative)
 Vice-Chair, 1999- 2003
 2003-2017 IASPEI Commission on Tectonophysics and Crustal Structure (Chair)
- Member of: American Geophysical Union Geological Society of America (Fellow)
 American Association for the Advancement of Science (Fellow)
 Seismological Society of America European Geosciences Union
 Asia-Oceania Geosciences Society

Other Professional Service:

- Proposal Review Panel Member for NASA DOSE Program, NASA Solid Earth and Natural Hazards Program, NSF NEHRP Program, USGS NEHRP Program
 Convenor of *International Workshop on Numerical Modeling of Lithospheric and Mantle Dynamics* (1997)
 Convenor of Symposia at IASPEI, AGU, GSA, and EGS/EGU meetings
 Chair - External Evaluation Committee, Department of Geology, University of North Carolina - Chapel Hill (1998)
 External Review Committee, Department of Geological Sciences, University of South Carolina (2000)
 Chair - External Review Committee, Department of Earth and Atmospheric Sciences, City College of New York (2001)
 Vice-Chair, U.S. National Committee to the International Union of Geodesy and Geophysics (Nat. Acad. Sci., Comm.)

Chair, IASPEI Committee on Tectonophysics and Crustal Structure
 IRIS Education and Outreach Committee (2006-2008)
 NSF EarthScope Review Committee (2005, 2006)
 NSF GeoEarthscope LiDAR Working Group, Chair (2006 - 2007)
 External Assessment Panel, Foundation for Research, Science, and Technology, New Zealand (NZ NSF equivalent), for
 Tectonics programs at GNS Science and NIWA (two government owned research institute) (March 2007)
 External Review Panel, Geophysics Program, Research School of Earth Science, ANU, Canberra, Australia (March 2007)
 Chair, Topo-Europe Review Panel (European Science Foundation) 2007-2008, 2009
 NSF IRIS Management Review Panel, 2009
 NSF Ridge2K Review Panel, 2009
 AuScope Review Panel, (Australia), 2009
 Chair, Topo-Europe Review Panel, November 2010, October 2011, April 2012
 NSF UNAVCO Management Review Panel, 2011

University Service:

University of Wyoming, Graduate School Committee

Pennsylvania State University, Department of Geosciences, and College of EMS

- Tenure and Promotion Committee (1987-1993; 1997-1999), Chair 1997-98
- Department Head Search Committee (1991, 1997)
- Graduate Program Committee (1986-1991; 2015-2020)
- Undergraduate Curriculum Development
- Executive Committee (2007-2008)
- Undergraduate Computation Facility Development
- Leeds Undergraduate Exchange Initiative
- Undergraduate Research Initiative
- International Programs Coordinator

Pennsylvania State University

- PSU Graduate Council (1997-2001, 2003-2005), Chair Graduate Research Committee (1998-2001)
- PSU Faculty Senate Committee on Research
- PSU International Education Programs and Studies Advisory Committee (1998-2002, 2003-2008)
- PSU Promotion and Tenure Committee (2006-2008)
- Steering Committee for Masters of Homeland Security (in Health Preparedness) professional masters and certificate program. Administered by PSU Hershey College of Medicine
- PSU Promotion and Tenure Committee (Committee for Out of Sequence Cases) 2008-2010
 (Chair 2009-2010), 2011-2021 (Chair 2017-2018)
- PSU Graduate Exhibition Committee (2006-2020) Co-Chair 2009-2010, 2011-2017
- Global Engagement Network (GEN) Initiative – Co-Chair of Northern Europe Initiative
 Co-Chair Caribbean Initiative
- Graduate Council Committee on Covid-19 Impacts

PUBLICATIONS – Books and Papers

1. **Furlong, K.P.** and D.S. Chapman, 1978, Roll cell mantle convection under the Pacific plate, *Nature*, 274, 145-147.
2. **Furlong, K.P.**, 1979, An analytic stress model applied to the Snake River Plain, USA, *Tectonophysics*, 58, T11-T15.
3. **Furlong, K.P.**, D.S. Chapman, and P.W. Alfeld, 1982, Thermal modeling of the geometry of subduction with implications for the tectonics of the overriding plate, *Jour. Geophys. Res.*, 87, 1786-1802.
4. Zandt, G. and **K.P. Furlong**, 1982, Evolution and thickness of the lithosphere beneath coastal California, *Geology*, 10, 376-381.
5. **Furlong, K.P.** and P.N. Shive, 1983, Determination of timing of volcanic events by secular variation and thermal modeling, *Geophys. Res. Lett.*, 10, 701-704.
6. **Furlong, K.P.** and J. Edman, 1984, Graphical approach to the determination of hydrocarbon maturation in overthrust terrains, *AAPG Bull.*, 68, 1818-1824.
7. **Furlong, K.P.**, 1984, Lithospheric behavior with triple junction migration: An example based on the Mendocino Triple Junction, *Phys. Earth Planet. Int.*, 36, 213-223.
8. **Furlong, K.P.**, and J.D. Myers, 1985, Thermal-mechanical modeling of the role of thermal stresses and stoping in magma contamination, *Jour. Volc. Geotherm. Res.*, 24, 179-191.
9. Hagen, E.S., M.S. Shuster, and **K.P. Furlong**, 1985, Tectonic loading and subsidence of Intermontane Basins: Wyoming Foreland Province, *Geology*, 13, 585-588.
10. **Furlong, K.P.** and M.D. Londe, 1986, Thermal-mechanical consequences of Basin and Range Extension, *GSA Special Paper 208 - Extensional Tectonics of the Basin and Range Province: A Perspective*, edited by Larry Mayer, 23-30.
11. **Furlong, K.P.** and D.M. Fountain, 1986, Continental crustal underplating: Thermal considerations and seismic-petrologic consequences, *J. Geophys. Res.*, 91, 8285-8294.
12. **Furlong, K.P.**, 1986, Thermal fingerprints of tectonic cycles, *Earth and Mineral Sciences (Penn State University)*, 55, 45-49.
13. **Furlong, K.P.**, 1986, Subduction of the Cocos Plate: Implications for lithospheric structure in Middle America, in *A Collection of Papers Honoring Brewster Baldwin (Middlebury College Press)*, ed. L.E. Harding and P.J. Coney, 149-156.
14. **Furlong, K.P.** and D.S. Chapman, 1987, Crustal heterogeneities and the thermal structure of the continental crust, *Geophys. Res. Lett.*, 14, 314-317.
15. Fountain, D.M., **K.P. Furlong**, and M.H. Salisbury, 1987, A heat production model of a shield area and its implications for the heat flow - heat production relationship, *Geophys. Res. Lett.*, 14, 283-286.
16. Morgan, P., W.N. Sawka, and **K.P. Furlong**, 1987, Introduction: Background and implications of the linear heat flow - heat production relationship, *Geophys. Res. Lett.*, 14, 248-251.
17. Nyblade, A.A., P.N. Shive, and **K.P. Furlong**, 1987, Rapid secular variation recorded in thick Eocene flows from the Absaroka Mountains of northwest Wyoming, *Earth Planet. Sci. Lett.*, 81, 419-424.
18. **Furlong, K.P.**, and D.S. Chapman, 1987, Thermal state of the lithosphere, *Rev. Geophys.*, 25, 1255-1264.
19. Edman, J.D., and **K.P. Furlong**, 1987, Thrust faulting and hydrocarbon generation: A reply, *Bull. Amer. Assoc. Petrol. Geol.*, 71, 890-896.
20. Fountain, D.M., M.H. Salisbury, and **K.P. Furlong**, 1987, Heat production and thermal conductivity of rocks from the Pikwitonei - Sachigo continental cross section, Central Manitoba: Implications for the thermal structure of Archean crust, *Can. J. Earth Sci.*, 24, 1583-1594.
21. Huntoon, J.E., and **K.P. Furlong**, 1987, Thermal-mechanical evolution of extensional basins: Problems of non-unique interpretation, *Can. Soc. Petrol. Geol. Memoir 12 - Sedimentary Basins and Basin-forming Processes*, 205-212.
22. Weir, L.A., and **K.P. Furlong**, 1987, Thermal evolution of sedimentary basins: Effects of intrabasinal conductive and advective heat transport, *Can. Soc. Petrol. Geol. Memoir 12 - Sedimentary Basins and Basin-forming Processes*, 351-362.
23. Miller, C.K., and **K.P. Furlong**, 1988, Thermal-mechanical controls on seismicity depth distributions in the San Andreas fault zone, *Geophys. Res. Lett.*, 15, 1429-1432.

24. **Furlong, K.P.**, W.D. Hugo, and G. Zandt, 1989, Geometry and evolution of the San Andreas Fault Zone in northern California, *J. Geophys. Res.*, *94*, 3100-3110.
25. **Furlong, K.P.**, and J.D. Edman, 1989, Hydrocarbon maturation in thrust belts: Thermal considerations, *AGU Geophys. Mon.* *48*, *Origin and Evolution of Sedimentary Basins and Their Energy and Mineral Resources*, 137-144.
26. Yan, B., E.K. Graham, and **K.P. Furlong**, 1989, Lateral variations in upper mantle thermal structure inferred from three-dimensional seismic inversion models, *Geophys. Res. Lett.*, *16*, 449-452.
27. Egglar, D.H., J.K. Meen, F. Welt, F.O. Dudas, **K.P. Furlong**, M.E. McCallum, and R.W. Carlson, 1988, Tectonomagmatism of the Wyoming Province, Colorado Volcanism, *Colorado School of Mines Quarterly*, *83*, 25-40.
28. Slingerland, R.L., **K.P. Furlong**, C. Beaumont, J.E. Huntoon, W. Manspeizer, and J. Diemer, 1989, *Sedimentology and Thermal-mechanical History of Basins in the Central Appalachian Orogen*, *IGC Field Trip Guidebook T152*, American Geophysical Union, 86 pp.
29. Slingerland, R.L., and **K.P. Furlong**, 1989, Geodynamic and geomorphic evolution of the Permo-Triassic Appalachian Mountains, *Geomorphology*, *2*, 23-37.
30. **Furlong, K.P.**, and C.A. Langston, 1990, Geodynamic aspects of the Loma Prieta earthquake, *Geophys. Res. Lett.*, *17*, 1457-1460.
31. Langston, C.A., **K.P. Furlong**, K.S. Vogfjord, R.H. Clouser, and C.J. Ammon, 1990, Analysis of teleseismic body waves radiated from the Loma Prieta Earthquake, *Geophys. Res. Lett.*, *17*, 1405-1408.
32. Bowers, J.R., D.M. Kerrick, and **K.P. Furlong**, 1990, Conduction model for the thermal evolution of the Cupsuptic Aureole, Maine, *Amer. J. Sci.*, *290*, 644-665.
33. **Furlong, K.P.**, 1990, Mapping the three-dimensional geometry of a strike slip plate boundary: Constraints from thermal-mechanical modeling and geodetic observations, *Proceedings of Fourth International Conference on the WEGENER/MEDLAS Project*, Scheveningen, The Netherlands, 43-44.
34. **Furlong, K.P.**, R.B. Hanson, and J.R. Bowers, 1991, Modeling Thermal Regimes, (Chapter), *Contact Metamorphism, Reviews of Mineralogy*, vol. 26, Mineral. Soc. Amer., 437-506.
35. Gardner, T.W., D. Verdonck, N.M. Pinter, R. Slingerland, **K.P. Furlong**, T.F. Bullard, and S.G. Wells, 1992, Quaternary uplift astride the aseismic Cocos Ridge, Pacific coast, Costa Rica, *Geol. Soc. Amer. Bull.*, *104*, 219-232.
36. **Furlong, K.P.** 1992, Heat Flow Through the Earth, (Chapter), *Encyclopedia of Earth System Science*, Academic Press, p. 491-505.
37. Liu, M. and **K.P. Furlong**, 1992, Cenozoic volcanism in California Coast Ranges: Numerical Solutions, *J. Geophys. Res.*, *97*, 4941-4951.
38. Verdonck, D., and **K.P. Furlong**, 1992, Stress buildup and release along the San Andreas during the earthquake cycle, *Geophys. Res. Lett.*, *19*, 1967-1970.
39. **K.P. Furlong**, 1992, Geometry and kinematics of the Pacific-North American plate boundary in the San Francisco Bay area, in *Late Cenozoic Geology in the North Bay Region*, (Field Trip Guide), ed. T.L. Wright, 13-32.
40. Huntoon, J.E. and **K.P. Furlong**, 1992, Thermal evolution of the Newark Basin, *J. Geology*, *100*, 579-591.
41. Chapman, D.S., and **K.P. Furlong**, 1992 Thermal State of the Lower Continental Crust, (Chapter), *Continental Lower Crust* (ed. Fountain, Arculus, Kay), Elsevier 179-199.
42. **Furlong, K.P.**, and S.M. Atkinson, 1993, Seismicity and thermal structure along the northern San Andreas fault system, California, U.S.A., *Tectonophysics*, *217*, 23-30.
43. Liu, M. and **Furlong, K.P.**, 1993, Crustal shortening and Eocene extension in the southeastern Canadian cordillera: Some thermal and rheological considerations, *Tectonics*, *12*, 776-786.
44. **Furlong, K.P.**, 1993, Thermal-rheological evolution of the upper mantle and the development of the San Andreas Fault system, *Tectonophysics*, *223*, 149-164
45. Slingerland, R., J. Harbaugh, and **K.P. Furlong**, 1994, *Simulating Clastic Sedimentary Basins*, , Prentice Hall.
46. **Furlong, K.P.**, and D. Verdonck, 1994, Three-dimensional lithospheric kinematics in the Loma Prieta region: Implications for the earthquake cycle , in *The Loma Prieta, California, Earthquake of October 17, 1989- Tectonic Processes and Models*, U.S.G.S. Professional Paper 1550-F, 103-131.

47. Brocher, T.M., J. McCarthy, P.E. Hart, W.S. Holbrook, **K.P. Furlong**, T.V. McEvelly, J.H. Hole, and S.L. Klemperer, 1994, Seismic evidence for a lower-crustal detachment beneath San Francisco Bay, California, *Science*, *265*, 1436-1439.
48. Liu, M., and **K.P. Furlong**, 1994, Intrusion and underplating of mafic magmas: thermal-rheological effects and implications for Tertiary tectonomagmatism in the North American Cordillera, *Tectonophysics*, *237*, 175-187.
49. **Furlong, K.P.**, W. Spakman, and R. Wortel, 1995, Thermal structure of the continental lithosphere: constraints from seismic tomography, *Tectonophysics*, *244*, 107-117.
50. Prims, J., and **K.P. Furlong**, 1995, Subsidence of San Francisco Bay: Blame it on Salinia, *Geology*, *23*, 559-562.
51. Rohr, K.M.M., and **K.P. Furlong**, 1995, Ephemeral plate tectonics at the Queen Charlotte triple junction, *Geology* *23*, 1035-1038.
52. Bahlburg, H., and **K.P. Furlong**, 1996, Lithospheric modeling of the Ordovician foreland basin in the Puna of NW Argentina: On the influence of arc loading on foreland basin formation, *Tectonophysics*, *259*, 245-258.
53. Prims, J., **K.P. Furlong**, K.M.M. Rohr, and R. Govers, 1996, Lithospheric structure along the Queen Charlotte margin in western Canada: constraints from flexural modeling, *Geo-Marine Letters*, *17*, 94-99.
54. Goes, S., R. Govers, S. Schwartz, and **K.P. Furlong**, 1997, Three-dimensional thermal modeling for the Mendocino Triple Junction area, *Earth Planet. Sci. Lett.*, *148*, 45-57.
55. Kreemer, C., R. Govers, **K.P. Furlong**, and W.E. Holt, 1998, Plate boundary deformation between the Pacific and North America in the Explorer Region, *Tectonophysics*, *293*, 225-238.
56. **Furlong, K.P.**, and R. Govers, 1999, Ephemeral Crustal Thickening at a Triple Junction: The Mendocino crustal conveyor, *Geology* *v.27*, 127-130.
57. Hole, J.A., T.M. Brocher, S.L. Klemperer, T.E. Parsons, H.M. Benz, **K.P. Furlong**, 2000, Three-dimensional seismic velocity structure of the San Francisco Bay Area, *J. Geophys. Res.*, *105*, 13,859-13,874.
58. Gize, Andrew P; Kuehn, C A; **Furlong, K P**; Gaunt, J M, 2000, Organic maturation modeling applied to ore genesis and exploration, *Reviews in Economic Geology*, *vol.9*, pp.87-104
59. Malservisi R., **K. P. Furlong**, T. H. Dixon, 2001, Influence of the earthquake cycle and lithospheric rheology on the dynamics of the Eastern California shear zone, *Geophys. Res. Lett.*, *28*, 2731-2734.
60. **Furlong, K.P.**, and C. Guzowski, 2000, Thermal Rheological Evolution of the Franciscan Crust: Implications for Earthquake Processes, *Proceedings of the 3rd Conference on Tectonic Problems of the San Andreas Fault System*, eds. G. Bokelmann and R.L. Kovach, Stanford Univ. Press 112-127.
61. **Furlong, K.P.**, S.D. Sheaffer, and R. Malservisi, 2001, Thermal-Rheological Controls on Deformation within Oceanic Transforms, *The Nature and Tectonic Significance of Fault-Zone Weakening*, Geol. Soc. London, Spec. Pub. *186*, eds. R.E. Holdsworth, R.A. Strachan, J.F. Maglaughlin, and R.J. Knipe, 65-83.
62. van Wijk, J.W., R. Govers, and **K.P. Furlong**, 2001, Three-dimensional thermal modeling of the California upper mantle; a slab window vs. stalled slab, *Earth and Planetary Science Letters*, *186*, 175-186.
63. Guzowski, Chris A.; **Furlong, Kevin P.**, 2002, Migration of the Mendocino triple junction and ephemeral crustal deformation: Implications for California Coast range heat flow, *Geophys. Res. Lett.* *v. 29-1*, pp. 12-1 to 12-4
64. Dixon, Timothy; Decaix, Julien; Farina, Fred; **Furlong, Kevin**; Malservisi, Rocco; Bennett, Richard; Suarez-Vidal, Francisco; Fletcher, John; Lee, Jeff, 2002, Seismic cycle and rheological effects on estimation of present-day slip rates for the Agua Blanca and San Miguel-Vallecitos faults, northern Baja California, Mexico, *J. Geophys. Res.*, *v. 107- B10*, pp. ETG 5-1 to ETG 5-23
65. Malservisi, R; Gans, C; **Furlong, K P**, 2003, Numerical modeling of strike-slip creeping faults and implications for the Hayward Fault, California, *Tectonophysics*, *vol.361*, no.1-2, pp.121-137
66. White T. ; **Furlong K.** ; Arthur M., 2002, Forebulge migration in the Cretaceous Western interior basin of the Central United States, *Basin Research* *14*, no.1 (2002) p. 43-54

67. Malservisi, Rocco; **Furlong, Kevin P**; Anderson, Helen, 2003, Dynamic uplift in a transpressional regime; numerical model of the subduction area of Fiordland, New Zealand, *Earth and Planetary Science Letters*, vol.206, no.3-4, pp.349-364,
68. Gans, Christine, R., **Furlong, Kevin, P.**, and Malservisi, Rocco, 2003, Fault creep and microseismicity on the Hayward fault, California: Implications for asperity size, *Geophys. Res. Lett.*, 30, doi:10.1029/2003GL017904
69. **Furlong, Kevin P**, Jane Lock, Chris Guzofski, Jaime Whitlock, and Harley Benz, 2003, The Mendocino Crustal Conveyor: Making and breaking the California Crust, *Int. Geol. Rev.*, 45, p. 767-779.
70. **Furlong, Kevin P**, Jane Lock, Chris Guzofski, Jaime Whitlock, and Harley Benz, 2003, The Mendocino Crustal Conveyor: Making and breaking the California Crust, in *The Lithosphere of Western North America and Its Geophysical Characterization* (S.L. Klemperer and W.G. Ernst, Eds.), Geol. Soc. Amer. Int. Book Ser. V. 7, p. 92-104.
71. Malservisi, Rocco; Dixon, Timothy H.; La Femina, Peter C.; **Furlong, Kevin P.** 2003, Holocene slip rate of the Wasatch fault zone, Utah, from geodetic data: Earthquake cycle effects , *Geophys. Res Lett.*, 30, No. 13, 1673 10.1029/2003GL017408
72. **Furlong, Kevin P.**, and Susan Y. Schwartz, 2004, Influence of the Mendocino Triple junction on the tectonics of Coastal California, *Ann Rev. Earth Planet. Sci.*, 32, pp. 403 – 433, doi: 10.1146/annurev.earth.32.101802.120252
73. Bennett, R.A., A.M. Friedrich, **K.P. Furlong**, 2004, Co-dependent histories of the San Andreas and San Jacinto fault zones from inversion of fault displacement rates *Geology*, 32, 961-964, doi:10.1130/G20806.1 [Featured as an 'Editors Choice' paper in SCIENCE, 11/26/04]
74. Harris, R. N., D. S. Chapman, K. P. Furlong, and D. M. Saffer, 2004, Thermal processes in the context of EarthScope, *EOS*, 85, 292.
75. Malservisi, R., **K.P. Furlong**, C.R. Gans, 2005, Using Microseismicity to Map Creep on a Fault Plane: Hints from Modeling the Hayward Fault, California (USA) *Earth Planet Sci Lett* doi: 10.1016/j.epsl.2005.02.039
76. Kamp, P.J.J., and **K.P. Furlong**, 2006, Neogene Plate Tectonic Reconstructions and Geodynamics of North Island Sedimentary Basins: Implications for the Petroleum Systems, Proc. 2006 New Zealand Petroleum Conf., 16 pp.
77. Lock, J., H. Kelsey, **K.P. Furlong**, A Woolace, 2006, Late Neogene and Quaternary Landscape evolution of the northern California Coast Ranges: Evidence for Mendocino triple junction tectonics, *Geol. Soc. Amer. Bull.* V. 118, pp 1232-1246 doi: 10.1130/B25885.1
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79. Kirby, Eric, Courtney Johnson, **Kevin Furlong**, and Arjun Heimsath, 2007, Transient channel incision along Bolinas Ridge, California: Evidence for differential rock uplift adjacent to the San Andreas fault, *J.Geophys. Res.*, 112 , F03S07, doi:10.1029/2006JF000559, 2007
80. **Furlong, Kevin P.**, 2007, Locating the Deeper Extent of the Plate Boundary Along the Alpine Fault Zone, New Zealand: Implications for Patterns of Exhumation in the Southern Alps, in Till, A.B., Roeske, S.M., Sample J.C., and Foster D.A. eds. *Exhumation Associated with Continental Strike-Slip Systems*, *GSA Special Paper 434*, 1-14, doi: 10.1130/2007.2343(01).
81. **Furlong, Kevin**, G.C. Beroza, J-P Brun, P.A. Cowie, M.R. Handy, W.D. Mooney, T. Taymaz, C. Teyssier, A. Vouchez, and B. Wernicke, 2007, Nucleation and Growth of Fault Systems, in *Tectonic Faults: Agents of Change on a Dynamic Earth*, ed.. M.R. Handy, G. Hirth, and N. Hovius, MIT Press –Dahlem Workshop Reports, 79-98.
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85. **Furlong, K.P.**, T. Lay, and C.J. Ammon, 2009, A Great earthquake rupture across a rapidly evolving three-plate boundary, *Science*, **324**, 226-229 DOI: 10.1126/science.1167476
86. Johnson, C., **K.P. Furlong**, and E. Kirby, 2009, Integrated geomorphic and geodynamic modeling of a potential blind thrust in the San Francisco Bay area, California, *Tectonophysics*, 471, 319-328, doi:10.1016/j.tecto.2009.03.002
87. **Furlong, K.P.**, and P.J.J. Kamp, 2009, The Lithospheric geodynamics of plate boundary transpression in New Zealand: Initiating and emplacing Subduction along the Hikurangi margin of New Zealand, and the Tectonic evolution of the Alpine Fault system. *Tectonophysics*, doi:10.1016/j.tecto.2009.04.023
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89. Plattner, C., R. Malservisi, **K.P. Furlong**, and R. Govers- 2009, Development of the Eastern California Shear Zone – Walker Lane belt: The effects of microplate motion and pre-existing weakness in the Basin and Range *Tectonophysics*, doi:10.1016/j.tecto.2009.11.021
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PUBLICATIONS – Maps

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137. Rhea, S., Tarr, A.C., Hayes, G., Villaseñor, A., **Furlong, K.P.**, and Benz, H., 2010, Seismicity of the Earth 1900–2007, Aleutian arc and vicinity: U.S. Geological Survey Open-File Report 2010–1083-B, 1 map sheet, scale 1:5,000,000.
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142. Rhea, Susan, Herman, Matthew, Tarr, A.C., Hayes, G.P., **Furlong, K.P.**, Villaseñor, Antonio, Dart, R.L. and Benz, H.M., 2011, Seismicity of the Earth 1900–2010, Sunda Arc and Vicinity: U.S. Geological Survey Open-File Report 2011–1083-H, 1 sheet, scale 1:8,000,000.
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EXTERNAL RESEARCH SUPPORT:

Completed Projects

1. Petroleum Research Fund (ACS) (7/1/82 - 9/1/84) \$10,000
"Time dependent modeling of forearc basins during evolution of subduction zones"
2. National Science Foundation (5/1/83 - 4/31/85) \$11,326
"Thermal aspects of the Basin and Range - Colorado Plateau Transition"
3. National Science Foundation (6/1/84 - 5/30/85) \$39,739
"Timing of volcanic events by secular variation and thermal modeling"
4. Texaco, USA (1/1/84 - 6/1/85) \$20,000
"Thermal effects of lava flow emplacement on hydrocarbon maturation"
5. National Science Foundation (5/15/85 - 10/31/86) \$30,000

- "Evolution of continental lithosphere - Constraints from seismic and thermal-mechanical modeling of triple junction migration in western North America"
5. Petroleum Research Fund (ACS) (6/1/85 - 8/31/88) \$52,500
 "Three-dimensional thermal-mechanical evolution of small sedimentary basins: implications for hydrocarbon maturation"
6. Texaco, USA (1/1/86 - 6/30/87) \$20,000
 "Thermal evolution of overthrust terrains"
7. National Science Foundation (4/15/86 - 9/30/88) \$75,000
 "Subduction zone structure of Oregon and Northern California"
8. National Science Foundation (1/1/87 - 6/30/89) \$121,000
 "Collaborative Research on Aseismic Ridge Subduction in Costa Rica: Mechanisms and Geomorphic Evidence for Crustal Uplift"
9. Petroleum Research Fund (ACS) (9/1/88 - 8/31/89) \$20,000
 "Evolution of Sedimentary Basins: Thermal, Mechanical, and Maturation Processes in Extensional Basins"
10. National Science Foundation (1/1/89 - 6/30/91) \$97,500
 "Thermal-mechanical evolution of the northern San Andreas Fault System"
11. National Science Foundation (1/1/89 - 6/30/91) \$92,050
 "Thermal modeling applied to the evolution of contact metamorphic aureoles"
12. National Science Foundation (6/1/91 - 12/31/91) \$13,000
 "International Workshop on Numerical Modeling of Lithospheric and Mantle Dynamics" (Travel support U.S. Participants)
13. NASA (6/1/91 - 12/31/91) \$10,000
 "International Workshop on Numerical Modeling of Lithospheric and Mantle Dynamics" (Travel support U.S. Participants)
14. Petroleum Research Fund (ACS) (9/1/90 - 8/31/92) \$40,000
 "Geodynamic Modeling of Continental Extension"
15. National Science Foundation (7/1/91 - 6/30/93) \$103,692
 "Rheology of Transform Plate Boundaries"
16. USGS (NEHRP) (2/15/92 - 2/14/94) \$109,437
 "3-D Plate Boundary Structure in the San Francisco Bay Region: Implications for the Earthquake Cycle"
17. IBM Corp. (Equipment Grant) \$235,000
 "Geodynamics Computational Facility"
18. National Science Foundation (7/1/93 - 6/30/95) \$145,230
 "Thermal and Mechanical Modelling of Himalayan Geology"
19. National Science Foundation (7/1/94 - 6/31/95) \$26,058
 "Implications of grain growth observations for the evolution of the western Mediterranean upper mantle"
20. NASA DOSE (3/1/92 - 8/30/97) \$268,000
 "Three-dimensional Structure and Deformation of Transform Plate Boundaries: Geodetic and Modeling Constraints"
21. National Science Foundation (7/1/96 - 6/30/99) \$202,500
 "Active Plate Boundary Tectonics along the San Andreas"
22. National Science Foundation (1/1/98-6/30/02) \$212,760
 "Lithospheric tectonics of a transpressional plate boundary, Fiordland, New Zealand"
23. National Science Foundation (7/1/99-6/30/02) \$126,226
 "Tectonically Driven Landform Response to the Mendocino Crustal Conveyor, Northern Coast Ranges, California"
24. National Science Foundation (7/1/2000 - 6/30/2003) \$158,000
 "Upgrading the Penn State University Geosciences Computational Facility"
25. National Science Foundation (07/01/01 - 6/30/02) \$15,000
 "Geodynamics and Active Tectonics of Fiordland, New Zealand: Workshop"
26. National Science Foundation (07/01/02 - 6/30/03) \$19,000
 "SGER: Testing the viability of (U-Th)/He Geochronology in active tectonic regions"
27. National Science Foundation (3/15/2001 - 2/29/2004) \$147,119

- “Collaborative Research: Geodynamics of the Eastern California Shear Zone”
 28. IRIS Education and Outreach Program Grant (NSF) (7/2002 – 8/2003) \$24,000
 “Earthquake Alert System”
 29. National Science Foundation (06/01/02 – 5/31/05) \$76,180
 “Collaborative Research: Co-evolution and Dynamic Interplay of the San Jacinto and Southernmost San Andreas Fault Zones”
 30. USGS NEHRP (1/1/2004 – 12/31/2005) \$45,000
 “Imaging Creep on the Hayward Fault System: Implications of Patterns of Transient Response for Earthquake Properties”
 31. NSF (Continental Dynamics) \$21,260 05/01/05 - 04/30/06
 “Plate Boundary Geodynamics - The New Zealand Observatory: A workshop proposal”
 32. NSF – Earthscope \$28,400 09/01/05 - 08/31/06
 “Northern California Plate Boundary Evolution: Workshop Focused on Defining LIDAR (ALSM) Targets and Priorities”
 33. NEHRP \$50,000 1/1/2007 – 12/31/2008
 “3-D Fault Geometry Along the Hayward-Rodgers Creek-Ma’acama Fault Corridor”
 34. NSF – GEO_Education: \$150,000 (2006-2010)
 “Active Learning in large enrollment classes: Learning Modules that work “
 35. NSF – EAR \$355,033 (2008-2013)
 “Inner Forearc Deformation along an Erosive Convergent Margin, Northeastern Japan”
 36. USGS-NEHRP \$48,605 (1/1/2012 – 12/31/2012)
 “The Intraplate Earthquake Cycle: Strain and Displacement Behavior during the Canterbury, NZ Earthquake Sequence”
 37. NSF – EAR \$459,877 (2010-2013)
 "Probing the Rheology of Tibetan Lithosphere: Surface Deformation in Response to Climatically-Induced Changes in Lake Loads,"
 38. NSF – EAR \$102,167 (10/01/2011 – 09/30/2014)
 “EAGER: Upper-Plate Response to a Great Earthquake: Integrating Deformation from Seismic to Geologic Timescales”
 39. NASA – 14-EARTH14F-249 (9/1/2014 - 8/30/2017)
 “From Megathrust to the Surface: Quantifying Upper Plate Deformation at Subduction Zones PI: Kevin P Furlong
 40. NSF – EAR \$170,327 (7/15/2018 – 06/30/2021)
 "Collaborative Research: Evaluating the contribution of crustal deformation to the present-day tectonics of convergent margins: the southern Cascadia forearc” PI: Kevin P Furlong

University Funded Research

Completed Projects

1. University of Wyoming, College of Arts and Sciences Basic Research Grant (1981-1982)
 "Thermal structure of subducting lithosphere"
2. University of Wyoming, Faculty Research Grant-in-Aid (3/1/83 - 12/31/83)
 "Thermal diffusivity measurements using the divided bar"
3. Penn State University Research Initiation Grant (7/1/84 - 6/30/85)
 "The Behavior of continental lithosphere during orogenic events"
4. Earth and Mineral Sciences Faculty Research Fund (10/1/84 - 6/30/85)
 "Three-dimensional thermal-mechanical modeling of lithospheric evolution"
5. MRI Research Initiation Grant (9/1/86 - 8/30/87)
 "Thermal Evolution of Overthrust Belts: Implications for Hydrocarbon Maturation"
6. IDP Fund for Excellence in Learning and Teaching (FELT) (6/1/97 - 5/31/98)
 “Bringing Diversity to Disasters”
7. Wilson Education Grant (College of EMS) (1997-98)
 “Development of a Natural Hazards Curriculum and Minor”
8. George H. Deike, Jr. Research Grant (College of EMS) (7/1/97 - 6/30/2000)

“Mapping Mantle Deformation”

9. Wilson Education Grant (College of EMS) (2000-2001)

“Real-time earthquakes: A project to integrate real-time global seismicity in to the curriculum”

10. Gladys Snyder Education Grant (College of EMS) (2004-2005)

“Active Learning in Large Enrollment Classes: Learning Modules that Work”

11. Gladys Snyder Education Grant (College of EMS) (2012-2013)

“Exploiting earthQUakes As Learning Events (EQUALE)”

EDUCATIONAL ACTIVITIES

Courses Taught (Y indicates taught yearly or every 2nd year, L indicates includes laboratory exercises)
 (* indicates course initiated/developed by K.P. Furlong)

University of Wyoming (9/81 - 6/84)

Geol 664 *Plate Tectonics (Y, L)
 Geol 681 *Thermal Processes (Y)
 Geol 683 Geomathematics (Y, L)
 Geol 880 *Tectonophysics
 Geol 881 *Numerical Methods (L)

University of Utrecht, The Netherlands (1989)

Geophysics Tectonophysics

Middlebury College (1994)

Geol 128 *Natural Disasters (L)

Victoria University of Wellington (2003 – 2003)

Esci 111 Earth Systems and Global Change
 (covered Natural Hazards component,
 2003)
 Geol 223 Earthquakes and Earth Structure
 (co-taught, 2002)

University of Canterbury (2010)

Geol 113 Environmental Geohazards
 (taught earthquakes and related topics)

Penn State University

Earth 497 *CAUSE - The Natural Hazards of NZ
 Earth 297 *Natural Hazards - Facts and Fictions
 Earth 101 *Natural Hazards - Hollywood vs.
 Reality (general education) (Y, L)
 Geosc 009 Introduction to Geophysics
 Geosc 112 Introductory Geosciences II (L)
 Geosc 310 *History of the Earth (Y, L)
 Geosc 402W *Natural Disasters (Y, L)
 Geosc 489 *Dynamics of the Earth (Y, L)
 Geosc 497 *Extension in the Western Cordillera
 Geosc 497H *Living with Risk, Natural Hazards of
 NZ
 Gphys 508 *Tectonics - Strike Slip Fault Zones
 Geosc 508 *Tectonics - P-T-t in Orogenic Belts
 Gphys 521 *Thermal State of the Earth (Y)
 Gphys 597 *Numerical Modeling of Diffusion (L)
 Geosc 597 *Evolution of Sedimentary Basins
 Gphys 597 *Lithospheric Evolution
 Geosc 597 *Finite Elements in Geodynamics
 Geosc 597 *Transpressional Tectonics
 Geosc 597 *Issues in Geosciences (Graduate Core
 Course)
 Geosc 598 *Orogenic Systems
 Geosc 598 *Tectono-Sedimentary Framework of
 New Zealand (Field course)
On-Line (PSU)
 Geosc 402 WC *Natural Disasters
 (core-course in Professional
 Masters Program, MHS for Health
 Professionals)

Supervision of Graduate Students*University of Wyoming**M.Sc. Degree*

1983 W. Eric Medlin "Numerical modeling of thermal conductivity contrasts"
 1985 Andrew Nyblade "Timing volcanic events by secular variation and thermal modeling"

Ph.D Degree

1986 Michael D. Londe "The Colorado Plateau - Basin and Range Transition Zone in Central Utah:
 Thermomechanical Modeling and Spectral Analysis of Topographic and Gravity Data"

*Pennsylvania State University**M.Sc. Degrees*

- 1986 L. Alison Weir "Thermal Regimes of Small Basins: An Investigation of the Effects of Intra-basinal Conductive and Advective Heat Transport"
- 1986 William D. Hugo "Thermal Controls on Lithospheric Strength and the Evolution of the Northern San Andreas Fault System"
- 1986 Mary Beth Kovarik "Calculating Constrained Crustal Geotherms"
- 1987 Steven Crum "Plate Tectonic Controls on Topography in the Pacific Northwest"
- 1988 Cynthia K. Miller "Thermal-Mechanical Controls on Seismicity in the San Andreas Fault Zone of Northern and Central California"
- 1989 David Verdonck "Geodynamic Aspects of Aseismic Ridge Subduction"
- 1993 Jordi Prims "Flexural Development of San Francisco Bay Basin"
- 1995 Steven Sheaffer "Thermal-mechanical modeling of large offset oceanic transforms"
- 1997 Nikos Tzetos "Crustal Structure of the northern Aegean region"
- 1997 Corne Kreemer "Plate Boundary Deformation between the Pacific and North America in the Explorer Region" (M.S. candidate at Utrecht University; Research Advisor)
- 1999 Ankie Meuwissen "Seismological and Gravitational Constraints on the Lithospheric Geometry beneath Fiordland, New Zealand" (M.S. Candidate, Utrecht University; Research Advisor)
- 2000 Chris Guzowski "Thermal-petrologic response of the Northern California Crust to Triple Junction Migration"
- 2002 Jaime Whitlock "Geochemistry of Triple Junction Related Volcanics, California Coast Ranges"
- 2002 Chris Schneider "Geodynamics of the Explorer Plate Region"
- 2004 Christine Gans "Investigations of strike-slip plate boundaries: Numerical modeling of creeping faults in Central California, and Spatial and Temporal slip distributions in Southern California"
- 2006 Courtney B. Johnson "Coupled Geomorphic and Geodynamic Modeling of a Potential Blind Thrust in Marin County, California"
- 2008 Gwendolyn Erickson "Evolution of an Intermontane Basin Along the Maacama Fault, Little Lake Valley, Northern California" (Humboldt State University, Arcata, CA)
- 2010 Matthew J. Legg "The Tectonic and Thermal Evolution of Hawke's Bay Basin, New Zealand"
- 2011 Xuhua Shi "Transient Channel Incision in Response to the Mendocino Triple Junction Migration, Northern California"
- 2011 Rachel Piotraschke "Thermal and Geologic Constraints on the Cretaceous-to-Neogene tectonic development of the Klamath Mountains, Northern California"
- 2012 Matthew W. Herman "Regional Moment Tensors from the 2010-2012 Canterbury Earthquake Sequence, South Island, New Zealand"
- 2014 Beth Meyers "Analyzing the State of Lithospheric Stress in Greater Thailand Through Finite Element Modeling"
- 2016 James Neely "Lithosphere Tearing and the Formation of a New Transform Plate Boundary"
- 2019 Haley Ramirez "The Seismic Hazards Posed by New Mapped Offshore Segments of the Ranong and Khlong Marui Faults"

Ph.D. Degrees

- 1990 Jacqueline Huntoon "An Integrated Model of Tectonics and Sedimentation for the Newark Basin"
- 1993 David Verdonck "Structure and Dynamics of the San Andreas Fault System in Central and Northern California"
- 2002 Rocco Malservisi "Geodynamic Modeling of Plate Boundary Deformation"
- 2007 Gavin P. Hayes "Integrating Seismological and Tectonic Studies to Constrain Lithospheric Evolution at Complex Plate Boundaries"

- 2009 Emily Beal "Geochemical requirements of the anaerobic oxidation of methane in the Eel River Basin"
- 2014 Xuhua Shi "Deformation of lacustrine shorelines in central Tibet: Implications for lake level history, fault kinematics, and crustal rheology"
- 2017 Matthew Herman "Deformation Processes Throughout the Earthquake Cycle"
- 2019 Thamer Alotaibi "Lithospheric Geodynamics of the Arabian Margin"

Post-Doctoral Researchers Supervised

Dr. Mian Liu (1990 - 1992)

Dr. Andrew A. Nyblade (1992 - 1994) (NSF Post-doctoral Fellow)

Dr. Rob Govers (1993 - 1995)

Dr. Dewei Li (1997-1998) (Visiting Professor from Chinese University of Geosciences, Hubei)

Dr. Zhenheng Zhou (2000-2002) (Visiting Professor from Yunan Seismological Bureau)

Dr. Ting Chen, (2014-2015) (Visiting Professor from Wuhan University)

INVITED LECTURES

- 1981 Department of Geophysics, Stanford University: "Thermal Modeling of the Geometry of Subduction"
- 1982 Department of Geology and Geophysics, Yale University: "Thermal Modeling of Plate Tectonic Processes"
- 1983 Department of Geosciences, University of Arizona: "Thermal-tectonic Aspects of Triple Junction Migration Along Western North America"
- 1984 Department of Geology and Geophysics, University of Utah: "Modeling Thermal Aspects of Geological Processes"
Department of Geology, University of North Carolina: "Thermal and tectonic Consequences of Triple Junction Migration" and "Thermal Consequences of Mode of Extension in Western North America"
Department of Geological Sciences, SUNY-Binghamton: "Thermal Modeling of Geologic Processes"
- 1985 Department of Geology, Lehigh University: "Thermal-physical Constraints on Crustal Growth with Underplating"
Institute of Geology, Academia Sinica, Beijing, China: "Thermal-tectonic Aspects of Plate Tectonic Processes"
Department of Geology, Middlebury College: "Thermal-tectonic Evolution of Coastal California with Triple Junction Migration"
Department of Geological Sciences, SUNY-Albany: "Thermal Considerations in the Evolution of the Continental Lithosphere"
- 1986 Department of Geological Sciences, University of Michigan: "Thermal Structure and Evolution of the Continental Crust"
Department of Geological Sciences, Cornell University: "Crustal Evolution with Underplating"
Institute of Geophysics and Planetary Physics, Lawrence Livermore Laboratory: "Lower Crustal Evolution with Underplating"
- 1987 Department of Geological Sciences, Yale University: "Thermal Structure and Evolution of the Continental Crust"
Department of Terrestrial Magnetism, Carnegie Institution of Washington: "Thermal Structure of the Lower Continental Crust"
Department of Geological and Geophysical Sciences, Princeton University: "Consequences of Aseismic Ridge Subduction - Costa Rica"

Department of Geology, Middlebury College: "Thermal-mechanical Evolution of Foreland Basins"
 Department of Geology, University of Missouri - Columbia: "Thermal Structure and Evolution of the Continental Crust"

- 1988 Department of Geology, Middlebury College: "Evolution of the San Andreas Fault System"
 U.S. Geological Survey, Menlo Park: "Thermal-mechanical Evolution of the San Andreas Fault System"
- 1989 Institute for Earth Sciences, University of Utrecht, The Netherlands: "Thermal-rheologic Evolution of the San Andreas Fault Zone"
 Physics - Geology Symposium, University of Utrecht, The Netherlands: "Plate Tectonics and Earthquakes"
 Geological Institute, Uppsala University, Sweden: "Thermal-rheologic Evolution of the San Andreas Fault System"
 Geophysical Institute, Uppsala University, Sweden: "Thermal Evolution of the Lower Crust: Seismic and Petrologic Controls"
 Department of Geology, Ecole Normal Superior, Paris, France: "The Three-dimensional Deep Structure of the San Andreas Fault Zone"
 Department of Geophysics, University of Karlsruhe, West Germany: "State of Stress Along Continental Transform Faults"
- 1990 U.S. Geological Survey, Menlo Park, CA: "Thermal-Rheologic Controls on the San Andreas: Why is it a Weak Plate Boundary"
 Institute of Tectonics, Earth Sciences Board, Univ. California Santa Cruz: "Thermal-tectonic Evolution of the San Andreas"
 Department of Geology, Lehigh University: "Evolution of the San Andreas Fault System"
 Department of Geology and Geophysics, University of Utah: "Rheology of a Plate Boundary"
- 1991 Department of Geological Engineering, Geology, and Geophysics, Michigan Tech Univ.: "Development and Evolution of the San Andreas"
 Department of Geology, Middlebury College: "Plate Tectonics of the San Andreas Fault"
 U.S. Geological Survey, Branch of Pacific Marine Geology, Menlo Park, CA: "Kinematics and dynamics of the San Andreas in the San Francisco Bay region"
- 1992 Department of Earth and Environmental Sciences, Rensselaer Polytechnic Institute: "Kinematics and Dynamics of the San Andreas Plate Boundary"
- 1993 Department of Geology and Geophysics, Boston College: "Kinematics and Dynamics of the San Andreas Plate Boundary" and "Rheological Evolution of Large Offset Oceanic Transforms"
 Institute of Earth Sciences, Utrecht University: "Rheological Evolution of Oceanic Transform Systems"
- 1994 Department of Geology, Dalhousie University, Nova Scotia: "Tectonic Evolution of the San Andreas Plate Boundary"
 Department of Oceanography, Dalhousie University, Nova Scotia: "Rheology of Oceanic Transform Faults"
 Department of Geology, Indiana University: "Rheology of the San Andreas Plate Boundary: Implications for Earthquake Hazards"
 Department of Geology, Middlebury College, Earthquakes and the San Andreas: Is Oakland the City the Waits to Die?
- Department of Geophysics, Victoria University, Wellington, New Zealand: "Geodynamics of the San Andreas plate Boundary"
 Department of Geology and Geophysics, Canterbury University, Christchurch, New Zealand: "Geodynamics of the San Andreas plate Boundary"

- Department of Geology, Otago University, Dunedin, New Zealand: “Geodynamics of the San Andreas plate Boundary”
- 1995 Department of Geological Sciences, University of South Carolina: “Birth of a Triple Junction, Death of a Plate: Evolution of the Explorer Plate”
 Woods Hole Oceanographic Institution, “Geodynamic Evolution of the San Andreas Plate Boundary”
 Department of Geophysical Sciences, University of Chicago: “Rheology of the Lithosphere: Why are the edges softer than the middle”
 Department of Geological and Geophysical Sciences, Princeton University: “Rheology of the Lithosphere: Why are the edges softer than the middle”
- 1996 Department of Geological Sciences, University of California, Santa Barbara: “Pseudo-plates and Micro-plates - The Evolution of the Explorer Region”
 Departments of Geology and Geophysics (joint seminar), University of Washington: “Rheology of the Lithosphere: Why are the edges softer than the middle”
 Department of Geological Sciences, SUNY-Stony Brook: “One of Our plates is missing - The life and times of the Explorer”
 Department of Geology and Geophysics, University of Utah: “One of Our Plates is Missing - The life and times of the Explorer plate”
 Geodynamics Institute, Utrecht University, The Netherlands: “Rheology of Plate Boundaries”
 Invited Speaker in Geodynamics Institute Symposium on Plate Dynamics
- 1997 Department of Earth, Atmospheric and Space Science, M.I.T.: “Exposing the Mantle Fabric Beneath Tibet”
 Geodynamics Research School and Inst. Earth Sciences, Univ. of Utrecht, The Netherlands:
 “Unraveling the Mantle Fabric Beneath Tibet”
 Earth and Ocean Sciences Research Inst. and Dept. Geology, Univ. Otago, New Zealand:
 “Exposing the Mantle Fabric Beneath Tibet” and
 “Pseudo-plates and Micro-plates: The Evolution of the Explorer region”
 Department of Geosciences, University of Arizona: “The Birth and Death of a Plate: Evolution of the Explorer Pseudo-plate” and “Exposing the Mantle Fabric Beneath Tibet”
- 1998 Department of Geological Sciences, Indiana University
 “Geodynamics of the San Andreas: Why Mendocino Matters” and
 “Complex Patterns of Seismic Anisotropy in Regions of Active Tectonics”
 Department of Geology, University of Vermont: “Geodynamics of the San Andreas: Why Mendocino Matters”
 Department of Geology, Middlebury College, Middlebury, VT:
 “Ephemeral Crustal Thickening at the Mendocino Triple Junction: Implications for the San Andreas Fault System”
- 1999 China University of Geosciences (Wuhan) and Chengdu Institute of Technology:
 “Thermal and Deformational Behavior of Plate Boundaries: Lessons from the San Andreas and Tibet”
 Department of Physics, Penn State University: “The Physics of Natural Hazards”
 Department of Geology and Geophysics, University of Utah: “ “Tectonics of Fiordland, N.Z. and the Explorer plate of N.E. Pacific: Why do small plate behave the way they do?”
2000. Department of Geology and Geophysics, Yale University:
 “The Mendocino Crustal Conveyor: Toward a new Paradigm of Triple Junction Tectonics”
 “Lithospheric Geodynamics of Fiordland, N.Z.: Why ‘Subduction’ happens?”

- 2001 Department of Earth Sciences, Boston University
 “The Mendocino Crustal Conveyor: Making and Breaking the California Crust” and
 “Lithospheric Geodynamics of Fiordland, N.Z.: Why Subduction Happens”
 Department of Geology, Sonoma State University
 “The Mendocino Crustal Conveyor: A New Look at the Evolution of the Northern California
 Coast Ranges”
 Department of Geology, Dickinson College
 “The Mendocino Crustal Conveyor: A New Look at the Evolution of the Northern California
 Coast Ranges”
 Department of Geosciences, Princeton University
 “The Mendocino Crustal Conveyor: Making and Breaking the California Crust”
 School of Earth Sciences, Victoria University of Wellington, NZ
 “Where is the San Andreas Plate Boundary in California?”
2002. Lectures at Institute of Geologic and Nuclear Sciences - IGNS (Wellington, N.Z.), School of Earth Sciences,
 Victoria University of Wellington, Ministry of Research Science and Technology – MoRST (Wellington, N.Z.)
- 2003 “Who’s Afraid of the Big Bad Fault?”
 Fulbright – New Zealand Public Lecture (Wellington N.Z.) April 1, 2003)
 “Natural Disasters in the Curriculum: Making Science Relevant”
 Plimmerton (N.Z.) Rotary
 “Science as Part of General Education”
 School of Earth Sciences, Victoria University of Wellington, New Zealand
 “Localized Subduction in Fiordland, New Zealand: Is it the *Real Thing?*”
 Department of Geology, University of Otago, New Zealand
 “A Different Sort of Mountain: the Evolution of the California Coast Ranges”
 Department of Earth Sciences, Waikato University, New Zealand
 “Landscape Development, Crustal Evolution and Upper Mantle Dynamics: The Geodynamics of the Mendocino
 Triple Junction in Northern California”
 Department of Geology, University of Auckland, New Zealand
 “Localized Subduction in Fiordland, New Zealand: Who/What is Ripping Australia?”
 Department of Geology and Geophysics, University of Utah
 “Can Scientists make their Research Understandable? And Should They?”
 PSU Research Unplugged
- 2004 ‘Making a Plate Boundary: Lithospheric Geodynamics in the Wake of the Mendocino Triple Junction
 Department of Earth Sciences, Syracuse University
- “20/20 Vision: Focusing on the Roles of Geophysics in the Next Decades,”
 Department of Geophysics, Colorado School of Mines
 “Complex Tectonics along the New Zealand Plate Boundary: Lessons from Integrative Lithospheric Geodynamics”
 Department of Geophysics, Colorado School of Mines
 ‘Making a Plate Boundary: Lithospheric Geodynamics in the Wake of the Mendocino Triple Junction
 Department of Geology, Humboldt State University, California
 “It Isn’t So Simple: The Evolving Plate Boundary through New Zealand”
 Department of Earth Sciences, Univ. California, Santa Cruz.
 “Caught in the Crunch: Making the New Zealand Plate Boundary”
 Geodaze Distinguished Lecturer, Department of Geosciences, University of Arizona

- “Evolution of the Plate Boundary through New Zealand: An Alternative Perspective?”
School of Earth Sciences, Victoria University of Wellington, New Zealand
- “Seismotectonics of the Fiordland Subduction Zone, New Zealand: Implications for the Evolution of the Alpine Fault”
National Earthquake Information Center, USGS, Golden CO.
- 2005 “The Why, What and Why of the Sumatra Earthquake and Tsunami”
Office of International Programs, Penn State University
- “Making the Plate Boundary in Northern California”,
National Earthquake Information Center, USGS, Golden CO
- “The Why, What and Why of the Sumatra Earthquake and Tsunami”
Vail Symposium, Vail Colorado
- “Making the Plate Boundary through California: Lithospheric Geodynamics in the Wake of the Mendocino Triple Junction”
Royal Society of New Zealand – Geophysics Division
- “*Making a Plate Boundary: An Interdisciplinary Perspective on the Evolution and Behavior of the San Andreas System*”
Dept. Earth Sciences, New Mexico Tech
- “Lithospheric Geodynamics of Plate Boundary Tectonics: Lessons from New Zealand”
ExxonMobil Upstream Research Corporation
- “Making the Plate Boundary through California: Lithospheric Geodynamics in the Wake of the Mendocino Triple Junction”
Department of Earth and Planetary Sciences, University of Pittsburgh
- 2006 “Terminating Subduction: How the New Zealand Plate Boundary Changes from Subduction to Translation”
School of Earth Sciences, Utrecht University
- “Terminating Subduction: How the New Zealand Plate Boundary Changes from Subduction to Translation”
CSIC Jaume Almera, Barcelona, Spain
- "Making the New Zealand Plate Boundary: Signature of Transient Tectonics"
Department of Geology, Canterbury University, New Zealand
- “Integrative Studies of Plate Boundary Development: Lithospheric Geodynamics of the San Andreas – Mendocino Triple Junction System”
School of Cosmic Physics, Dublin Institute of Advanced Studies
- “Implications of New Developments in Plate Tectonics for Exploration Strategies”,
Permian Basin Geophysical Society, Midland, TX.
- “Making a Plate Boundary: Lithospheric Geodynamics of the San Andreas – Mendocino Triple Junction System”
Department of Geology, University of Leicester, U.K.
- 2007 “Making a Plate Boundary: Lithospheric Geodynamics of the San Andreas - Mendocino Triple Junction System”
Geological Sciences, Ludwig Maximilian Univ. Munich, Germany.
- “Why is the San Andreas Fault System so Creepy?”
Geological Society of Washington, D.C.
- “Making a Plate Boundary: The Formation and Evolution of the San Andreas”
Department of Geology, University of Copenhagen, Denmark.
- “The Flip Side of Science Communication – Developing a ‘Science Ready’ Society”
University of Otago, New Zealand.
- 2008 “Rethinking the Making of Plate Boundaries: Lessons from the San Andreas and New Zealand”
Geosciences, Monash University, Melbourne Australia

- “Bringing Plate Tectonics Into the 21st Century: Lessons from New Zealand”
Department of Earth and Environmental Sciences, RPI.
- “The Challenge (and promise) of Integrative Earth Sciences Research ”
National Science Foundation, Washington, D.C.
- 2009 “How to Make a plate Boundary in New Zealand (with some help from California)”
Department of Geosciences, University of Texas at Dallas
- “Great Subduction Earthquakes, What do They Tell Us?”
Department of Geosciences, University of Texas at Dallas
- “Rethinking Subduction: Learning from the Kurile and Solomon Earthquakes”
Department of Geosciences, University of Melbourne, Australia
- "North versus South: Contrasts in the Evolution of the San Andreas Plate Boundary in Alta and Baja California"
Department of Earth Sciences, Utrecht University, The Netherlands
- “Rethinking Subduction: Learning from the Kurile, Solomon and Other Recent Great Earthquakes”,
Monash University, Melbourne, Australia
- 2010 “How the New Zealand Plate Boundary was Made: or How we get to where we are today?”,
Geoscience Society of New Zealand, Canterbury Branch, Christchurch NZ
- “Putting the 2010 Canterbury Earthquake into Context: The Why and How”,
Department of Mathematics and Statistics, Univ. Canterbury, Christchurch, NZ
- “Putting the 2010 Canterbury Earthquake into Context: The Why and How”, [Public Lecture]
University of Waikato, Hamilton, NZ
- “The Why and How of the 2010 Canterbury Earthquake: Putting It into Context” [Public Lecture]
Christchurch Tramping Club (and other regional Tramping (Hiking) Clubs)
- “Putting the 2010 Canterbury Earthquake into Context: The Perspective from One Month Out”,
Department of Geography, Univ. Canterbury, Christchurch, NZ
- “Is the Fault The Fault? Linking surface faulting to crustal faulting and deformation”
Natural Hazards Research Center Symposium on Darfield (Canterbury) Earthquake
University of Canterbury, Christchurch, NZ
- “It is dangerous Out there: Improving our knowledge base and mitigation response capabilities for GeoHazards”
LESC (Life, Earth, Env. Sci. Commmission), European Science Foundation, Strasbourg, France
- 2011 “Tectono-Seismology of the 2010 Darfield (Canterbury) NZ Earthquake”
National Earthquake Information Center, USGS, Golden CO.
- “The September 2010 Darfield (Canterbury) NZ Earthquake and the February 2011 Christchurch ‘Aftershock’”
[Public Lecture], University of Utrecht, The Netherlands
- “What is Going On with These Earthquakes”
Waikato 60+ Club [Public Lecture]
- “The Canterbury Earthquake Sequence: What does it mean for New Zealand?”
Earth Science Club, University of Waikato
- “The Canterbury Earthquake Sequence: What does it mean for New Zealand?”
Maori Staff Organization, University of Waikato
- “The Canterbury Earthquake Sequence: What does it mean for New Zealand?”
IPENZ (Inst. Prof. Engineers, New Zealand), Hamilton, NZ and Rotorua, NZ
- “Earthquake Hazards in the Waikato: Could this be in our future?” [Public Lecture]
Natural Hazards Forum, Environment Waikato, Hamilton, NZ
- “The Magnitude 9.0 Sendai Earthquake and Tsunami: the Double Whammy” [Public Lecture]
University of Waikato, Hamilton, NZ

- “What’s With All These Earthquakes?” [Public Lecture]
The University of Melbourne, Australia
- “The Canterbury New Zealand Earthquake Sequence: Tectonic Context and Seismological Consequences”
Department of Geosciences, University of Melbourne, Australia
- “What Should We Make of the Canterbury Earthquakes”
Papamoa Beach (Tauranga) Probus (Rotary) Club, New Zealand
- “What Should We Make of All of These Earthquakes”
Morrinsville NZ Lyceum Club (Women’s Service Organization)
- “What’s The Deal With All These Earthquakes: Lessons from and for New Zealand”
University of Waikato, Faculty of Science Open Day
- “What’s The Deal With All These Earthquakes: Lessons from and for New Zealand”
University of Waikato, Tauranga Campus
- “Natural Disasters in the Asia-Pacific Region”
Melbourne Conversations, Melbourne Town Hall (Australia)
- “Finding Fault: Earthquakes Around the World (Including where they Shouldn’t Be!)”
Research Unplugged, Penn State University (Town/Gown Event)
- “A Year of Earthquakes: Lessons from the Canterbury NZ Earthquake Sequence”
Department of Geology, Humboldt State University
- 2012 “20/20 Vision for the Geosciences: Our Role in Addressing Key Societal Issues of Hazards and Resources”
Keynote Lecture at 50-Year Celebration of Geology Department at University of West Indies, Jamaica
- “When Should We head For the Hills?: New Thinking on Subduction Zones, Megathrusts, and Tsunami”
USGS – Geological Hazards Team, Seminar Series; Golden CO.
- 2013 “Should We Run For the Hills?: New Thinking About Subduction Earthquakes”
Department of Geological Sciences, University of Canterbury, Christchurch, New Zealand
- “Should We Run For the Hills: Rethinking Subduction Zone Earthquakes”
Department of Geology, University of South Florida, Tampa, FL
- “Teaching Science: ‘Natural Disasters: Hollywood vs Reality’”
Tucson Chapter, Penn State Alumni Society
- “Teaching Science: ‘Natural Disasters: Hollywood vs Reality’”
Northwest Ohio Chapter, Penn State Alumni Society, Toledo, OH
- “Cracks in the Earth – Idaho to New Zealand”
Department of Geology and Geophysics, University of Utah, Salt Lake City, UT
- “When Should We Run for the Hills? – Lessons from Tohoku and Other Megathrust Earthquakes”
Department of Earth Sciences, Kasetsart Univeristy, Bangkok, Thailand
- “Two Years of Earthquakes: The Christchurch (Canterbury) New Zealand Earthquake Sequence – Will it ever end?”
Department of Earth Sciences, Kasetsart Univeristy, Bangkok, Thailand
- “Helping the Public (and Government) Understand Earthquakes: Communication Lessons From the Christchurch Earthquakes”
Department of Earth Sciences, Kasetsart Univeristy, Bangkok, Thailand
- “Teaching Disasters: Active Learning Approaches to Help Students Understand Earthquakes and Other Natural Hazards”
Department of Earth Sciences, Kasetsart Univeristy, Bangkok, Thailand
- 2014 “Really Big Earthquakes - What They Tell Us About Subduction Zones”
Department of Geological Sciences, Cal State – Fullerton
- 2015 “Uncovering the Hidden Complexity of the Earthquake Cycle at Megathrust Subduction Zones”

Invited Lecture at the Earth Observatory Singapore (EOS), Nanyang Technical University, Singapore

“Linking Surface Observables to Subduction Seismogenic Zone Processes: Modeling Constraints”
Keynote Speaker at the Topo-Europe 2015 Workshop, Antibes, France

Day-long Lecture Series at Kasetsart University, Bangkok, Thailand (June 2015)

“Foreshocks and the Triggering of the Great 2014 Iquique, Chile Megathrust Earthquake”

“Styles of Earthquake Triggering: From Christchurch to the Solomon Islands”

“Earthquakes where they Shouldn’t Be: Human Induced Seismicity”

2016 “From Mountain Heights to Basin Depths: Importance of Thermal Geophysics in Tectonics, Seismology, and Petroleum Geoscience”
Keynote Speaker at the 7th International Conference on Applied Geophysics (Thai Geophysical Society), Bangkok

2017 “Integrative Studies of Earthquakes: Combining Seismology, Geodesy and Geodynamics to Better Understand Major Earthquakes”

Invited Lecture at the Department of Geodesy and Geophysics, Wuhan University, Wuhan, China,

“Earthquakes Where They Shouldn’t Be: Fracking, Shale Gas, and Human Induced Earthquakes”, and
“New Understandings of the Earthquake Cycle from Recent Great Earthquakes: Observations and Modeling”
Invited Lectures at the Earthquake Administration of Sichuan Province, Chengdu, China

“Recent Major Earthquakes in New Zealand - Surprising and Important Events for Earthquake Science”

Invited Lecture at the Institute of Seismology, China Earthquake Administration, Hubei Province, China

2018 “Integrating Observations and Models to Advance Our Understanding of the Earthquake Cycle in Subduction Zones”,

Invited Lecture, Department of Earth Sciences, Tohoku University

“Bringing Natural Hazards Science to Society: The Role of the University”

Invited Lecture, IRIDES (Int. Res. Cen. Of Natural Disasters), Tohoku University

“New Understanding of the Plate Tectonics of Subduction Zones: What We Have Learned from 10+ Years of Great Megathrust Earthquakes”, Department of Geology, Middlebury College, Middlebury VT.

2020 “Seismotectonics of the 2016 M7.8 Kaikoura. New Zealand Earthquake” NEIC USGS, Golden CO.

“Earthquakes where they Shouldn’t Be: Subduction Zone Earthquakes in a Decoupled Seismic Gap”,
PSU Geodynamics Seminar

2021 “Modern Plate Tectonics and Petroleum Exploration - How do they fit together?”

Pittsburgh Association of Petroleum Geologists

SHORT COURSE ORGANIZATION/LECTURES

1989 IGC Short Course Sedimentology and Thermal Mechanical History of Basins in the Central

- 1991 MSA Short Course Appalachian Orogen
Contact Metamorphism
- 2005 International Conference Natural Hazards in the Classroom (Keynote Lecturer)
on Disaster Mental Health
- 2006 MARGINS Source to Sink TEI Northern California Coast Ranges Field Trip
- 2013 Series of Lectures and Short Course on Plate Boundary Processes and Hazards at Kasetsart University
(Bangkok, Thailand)
- 2016 Earthquake and Tsunami Science Short Course, Phuket Thailand (on the 12th Anniversary of the 2004
Earthquake and Tsunami) – for Thai Secondary School Science Teachers
- 2019 “Understanding the Underlying Causes of Earthquakes in Southeast Asia”, Kasetsart University,
Bangkok, Thailand (funded by the Thai Science Foundation and the Thai Education Foundation).

WORKSHOPS ORGANIZED (SINCE 2002)

- 2002 Tectonics of Fiordland, New Zealand, [NSF EAR-Tectonics Funded Workshop held in Dunedin and Te Anau, New
Zealand,]
- 2004 Workshop on Thermal Processes in the Context of Earthscope, [NSF Earthscope funded Workshop held in Salt Lake
City, UT]
- 2005 The New Zealand Geodynamic Observatory [NSF EAR-CD funded Workshop, held in Wellington, New Zealand]
- 2006 Northern California Earthscope LiDAR Workshop [NSF Earthscope funded Workshop held in Marshall CA]
- 2016 Earthscope Synthesis Workshop, MTJ Observatory, [held at HSU Arcata , CA]

PAPERS PRESENTED AT PROFESSIONAL MEETINGS:

[* Indicates Presented by K.P. Furlong]

1977

*Furlong, K.P., and D.S. Chapman, 1977, Roll cell mantle convection?: Evidence from heat flow and topography, EOS Trans. AGU, 58, 1235.

Chapman, D.S., and K.P. Furlong, 1977, Continental heat flow age relationship, EOS Trans. AGU, 58, 1240.

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Chapman, D.S., K.P. Furlong, R.B. Smith, and D.J. Wechsler, 1978, Geophysical characteristics of the Colorado Plateau and its transition to the Basin and Range province in Utah, in Abstracts of papers presented at Conference on Plateau Uplift: Mode and Mechanism, Lunar Planetary Institute Contrib., p. 329.

*Furlong, K.P., 1978, An analytic stress model applied to the Snake River Plain, EOS Trans. AGU, 59, 189.

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*Furlong, K.P., D.S. Chapman, and K.F. Priestley, 1979, Thermoelastic constraints on thermal models applied to the Basin and Range Province, EOS Trans. AGU, 60, 946.

Chapman, D.S., H.N. Pollack, I. Vittorello, and K.P. Furlong, 1979, On the variation of continental heat flow with age relationships; Observations and models (invited paper), Abstracts of papers presented at International Heat Flow Committee Workshop, 17th General Assembly of the IUGG, Canberra, Australia.

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*Furlong, K.P., D.S. Chapman, and P.W. Alfeld, 1980, Geometry of subduction - A thermal model, EOS Trans. AGU, 61, 1107.

Zandt, G., and K.P. Furlong, 1980, High heat flow in the California Coast Ranges - Result of a leaky transform, EOS Trans. AGU, 61 1130.

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- *Furlong, K.P., 1981, A thermal model of Cenozoic subduction beneath the Southern Cordillera, Abstracts with programs, 1981 GSA Cordilleran Section Meeting, Hermosillo, Mexico.
- *Furlong, K.P. and D.S. Chapman, 1981, Thermal consequences of Triple Junction migration applied to Western North America, Abstracts of Papers presented at 21st General Assembly of IASPEI, London, Ontario.
- *Furlong, K.P., 1981, Rivera Triple Junction evolution - Implications for the future of the Juan de Fuca Plate, EOS Trans. AGU, 62, 1034-1035.

1982

- *Furlong, K.P., and J.D. Myers, 1982, Magma Contamination: Role of thermal stresses, EOS Trans. AGU, 63, 458.
- *Furlong, K.P., 1982, Thermal mechanical aspects of lithospheric behavior with triple junction evolution, Abstracts of papers presented at International Conference on Mathematical Geophysics, Bonas, France, Terra Cognita, 2, 159.
- *Furlong, K.P., 1982, Constraints from paleomagnetic data on rates of lava flow emplacement: Modeling results, EOS Trans. AGU, 63, 920.

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- *Furlong, K.P., and H.P. Heasler, 1983, Thermal consequences of emplacement of volcanics - Implications for hydrocarbon maturation, in Papers presented at AAPG Research Conference on Basin Analysis, Tucson, AZ.
- *Furlong, K.P. and J.D. Edman, 1983, Graphical approach to determination of hydrocarbon maturation in overthrust terrains, Abstracts of Papers presented at AAPG Annual Meeting, p. 77.
- *Furlong, K.P., and J.D. Myers, 1983, The role of thermal stresses in magma contamination: Theoretical Aspects, Abstracts of Papers presented at IAVCEI Symposia, 18th General Assembly of IUGG, Hamburg, Germany, p. 6.
- *Myers, J.D., and K.P. Furlong, 1983, The role of thermal stresses in magma contamination: Petrologic consequences, Abstracts of Papers presented at IAVCEI Symposia, 18th General Assembly of IUGG, Hamburg, Germany, p. 7.
- *Furlong, K.P., 1983, Application of the Method of Lines to transient thermal problems associated with plate interactions, Abstracts of Papers presented at IASPEI Symposia, 18th General Assembly of IUGG, Hamburg, Germany, p. 215.
- *Furlong, K.P., 1983, Flexural evolution of the California Coast Ranges with Triple Junction migration, EOS Trans. AGU, 64, 865.

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- Hagen, E.S., K.P. Furlong, and R.C. Surdam, 1984, Hydrocarbon maturation in Laramide Basins: Constraints from the evolution of the northern Bighorn Basin, Wyoming - Montana, in Abstracts of Papers presented at 1984 AAPG Annual Meeting (Best Paper Award).
- *Furlong, K.P. and M.D. Londe, 1984, Thermal-mechanical consequences of Basin and Range Extension, EOS Trans. AGU, 65, 281.
- *Furlong, K.P. and M.D. Londe, 1984, Thermal-mechanical consequences of mode of extension in continental lithosphere, Abstracts of Papers presented at International Conference on Mathematical Geophysics, Loen, Norway, Terra Cognita, 4, 253.
- Chapman, D.S. and K.P. Furlong, 1984, A Plate Tectonics Laboratory Course, Abstracts of Papers presented at 27th Internat. Geol. Cong., Moscow, v. 8, p. 484-485.
- *Furlong, K.P. and D. M. Fountain, 1984, Lithospheric evolution with underplating: Thermal-physical considerations, EOS Trans. AGU, 65, 986.
- Londe, M.D. and K.P. Furlong, 1984, Thermal-mechanical modeling of the Colorado Plateau - Basin and Range transition, EOS Trans. AGU, 65, 1095.

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- *Furlong, K.P., and D.S. Chapman, 1985, Crustal heterogeneities: Implications for the thermal state of the continental crust, EOS Trans. AGU, 66, 365.

- Nyblade, A.A., P.N. Shive and K.P. Furlong, 1985, Rapid secular variation recorded by Eocene flows, *EOS Trans. AGU*, 66, 259.
- *Furlong, K.P., 1985, Thermal consequences of the evolution of the Pacific - North American plate boundary (invited paper), Abstracts of papers presented at the 23rd General Assembly of IASPEI, Tokyo, Japan, v. 1, p. 317.
- *Furlong, K.P., 1985, Crustal underplating: Thermal constraints and consequences, Abstracts of papers presented at the 23rd General Assembly of IASPEI, Tokyo, Japan, v. 2, p. 551.
- *Furlong, K.P., 1985, Continental extension zones: Thermal-mechanical signature of low-angle simple shear extension, Abstracts of papers presented at the International Symposium on Deep Internal Processes and Continental Rifting, Chengdu, China, p. 43.
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- Hugo, W.D., and K.P. Furlong, 1985, Lithospheric strength and the evolution of the San Andreas Fault system, *EOS Trans. AGU*, 66, 1099.

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- *Furlong, K.P., 1986, Can heat flow data constrain crustal heat production? - A modeling perspective, (Invited Paper), *EOS Trans. AGU*, 67, 386.
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- Huntoon, J.E., and K.P. Furlong, 1986, Thermal-mechanical evolution of extensional basins: Toward a constrained forward model, Abstracts of papers presented at Conference on Basins of Eastern Canada and Worldwide Analogues, Halifax, Nova Scotia.
- Weir, L.A., and K.P. Furlong, 1986, Thermal evolution of sedimentary basins: Intrabasinal effects, Abstracts of papers presented at Conference on Basins of eastern Canada and Worldwide Analogues, Halifax, Nova Scotia.
- *Furlong, K.P., and G. Zandt, 1986, Lithospheric structure and evolution of the Northern San Andreas Fault, *EOS Trans. AGU*, 67, 1214.
- Hsui, A.T., G. Zandt, and K.P. Furlong, 1986, Thermal Mechanical Structure of the Upper Mantle Immediately beneath Coastal California -- A preliminary model, *EOS Trans. AGU*, 67, 1215.

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- *Furlong, K.P., and D.M. Fountain, 1987, Crustal underplating and the continental Moho: Thermal considerations in interpretations, *EOS Trans. AGU*, 68, 350.
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- *Furlong, K.P., J.D. Edman, and J.E. Huntoon, 1988, Pre-Sevier thermal regime in the Hinterland: Evidence from the Idaho-Wyoming thrust belt, GSA 1988 Abstracts with Program, A19.
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- Verdonck, D., and K.P. Furlong, 1988, Application of Coulomb Wedge Theory to the Pacific coast of Costa Rica, EOS Trans. AGU, 69, 1406.
- *Furlong, K.P., 1988, Underplating, Metamorphism, and the Moho, Papers presented at NATO Advanced Study Institute, Exposed Cross Sections of the Continental Crust, Killarney Ont.

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- *Furlong, K.P., 1989, Reduction in lithospheric strength along the San Andreas Fault Zone, Abstracts of papers presented at XIV European Geophysical Society Annual Meeting, Annales Geophysicae, 9.
- *Furlong, K.P., 1989, Mapping Three-dimensional structure of San Andreas plate boundary: Implications for regional patterns of stress, Abstracts of papers presented at 28th IGC, Washington, D.C., 1, 519.
- Huntoon, J.E., K.P. Furlong, J.D. Edman, 1989, Tectonic evolution and hydrocarbon maturation in thrust belts as constrained by thermal modeling, Abstracts of papers presented at 28th IGC, Washington, D.C., 2, 84.
- Eggler, D.H., and K.P. Furlong, 1989, Destruction of Wyoming Province lithosphere: thermal modeling with Kimberlite xenoliths, EOS trans. AGU, 70, 511.
- *Furlong, K.P., 1989, Localization of deformation in the lithospheric mantle: The paradox of continental transform plate boundaries, Abstracts of papers presented at 25th General Assembly of IASPEI, Istanbul, Turkey, 122.
- *Furlong, K.P., and C.K. Miller, 1989, Thermal-mechanical controls on seismicity depth distributions along the San Andreas fault zone, California, Abstracts of papers presented at 25th General Assembly of IASPEI, Istanbul, Turkey, 570.
- *Furlong, K.P., W. Spakman, and R. Snieder, 1989, Mapping the thermal and compositional structure of the European lithosphere: Constraints from seismic tomography and heat flow, Abstracts of papers presented at Int. Symp. on Thermal Evolution of Lithosphere and Processes in the Earth's Interior, Moscow, U.S.S.R., 39.
- *Furlong, K.P., 1989, The role of thermal history in the localization of deformation in the lithospheric mantle of the San Andreas transform plate boundary, Abstracts of papers presented at Int. Symp. on Thermal Evolution of Lithosphere and Processes in the Earth's Interior, Moscow, U.S.S.R., 40.
- *Furlong, K.P., 1989, Mapping the thermal and compositional structure of the lower crust and uppermost mantle of continental lithosphere: Constraints from seismic tomography and heat flow, Abstracts of papers presented at 1989 GSA Annual Meeting, A82.
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- *Furlong, K.P., 1989, Terrane capture by the Pacific plate along the San Andreas plate boundary, EOS trans. AGU, 70, 1312.
- *Furlong, K.P., C.A. Langston, C.J. Ammon, R.H. Clouser, K.S. Vogfjord, G.S. Wagner, 1989, Seismic rupturing in the lower crust along the San Andreas?: lessons from Loma Prieta, EOS trans. AGU.
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- Huntoon, J.E., and K.P. Furlong, 1989, Thermal evolution of the Mesozoic Newark Basin and Implications for tectonic processes, EOS trans. AGU, 70, 1344.

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- *Furlong, K.P., and C.A. Langston, 1990, Geodynamic aspects of the Loma Prieta Earthquake: Constraints from rheological and source modeling, Seism. Res. Lett., 61, 23.

- *Furlong, K.P., 1990, Localization of lithospheric deformation along transform plate boundaries: Modeling the San Andreas, EOS trans. AGU, 71, 643. (Invited)
- *Furlong, K.P., 1990, T-X Mantle Tomography, *Annales Geophysicae*, (abstracts of papers at XV General Assembly of the European Geophysical Society, Copenhagen, Denmark) (Invited).
- *Furlong, K.P., 1990, Kinematics of crustal blocks within the San Andreas system: A three-dimensional perspective, EOS trans. AGU, 71, 1223 (Invited).
- Verdonck, D. and K.P. Furlong, 1990, Stress buildup and release during the earthquake cycle: A numerical investigation of the dynamic evolution of the San Andreas fault system, EOS trans. AGU, 71, 1652.

1991

- *K.P. Furlong, and M. Liu, 1991, Lithospheric evolution along the San Andreas fault, California: Implications for strain localization and crustal magmatism, *Annales Geophysicae*, (abstracts of papers at XVI General Assembly of the European Geophysical Society, Wiesbaden, Germany), C78-79.
- *K.P. Furlong, and D. Verdonck, 1991, Fault interaction in the San Francisco Bay region: Stress communication between faults and the earthquake cycle, *Annales Geophysicae*, (abstracts of papers at XVI General Assembly of the European Geophysical Society, Wiesbaden, Germany), C35.
- Liu, M., and K.P. Furlong, 1991, Evolution of Cenozoic volcanism in California Coast Ranges: Numerical Solutions, EOS trans. AGU, (Abstract volume, Spring Meeting), 263.
- Verdonck, D., and K.P. Furlong, 1991, Numerical modeling of crustal deformation at complex transform plate boundaries, EOS trans. AGU, (Abstract volume, Spring Meeting), 263.
- *Furlong, K.P., and S.M. Atkinson, 1991, Seismicity and thermal structure in the San Francisco Bay area, Abstracts of papers presented at XX General Assembly of IASPEI (Vienna, Austria), 136.
- *Furlong, K.P., and D. Verdonck, 1991, Plate boundary rheology and deformation along transform faults, Abstracts of papers presented at XX General Assembly of IASPEI (Vienna, Austria), 152.
- Tzetos, N., and K.P. Furlong, 1991, Thermal modeling of the North Aegean Trough, North Aegean Sea, EOS trans. AGU, (Abstract volume, Fall Meeting), 428.
- *K.P. Furlong, J. McCarthy, and T. McEvelly, 1991, Geometry and kinematics of the Pacific-North American plate boundary in the San Francisco Bay area: A testable model for BASIX, EOS trans. AGU, (Abstract volume, Fall Meeting), 445.
- Liu, M., and K.P. Furlong, 1991, Thermal and deformational history in extensional core complexes, Southeastern Canadian cordillera, EOS trans. AGU, (Abstract volume, Fall Meeting), 461.
- *K.P. Furlong, and B. Conway, 1991, Rheologic properties of oceanic transform faults: The link to plate velocities, EOS trans. AGU, (Abstract volume, Fall Meeting), 472.
- G.E. Tucker, R.L. Slingerland, and K.P. Furlong, 1991, The influence of climate and surface processes in the cross-sectional topography of mountain ranges, EOS trans. AGU, (Abstract volume, Fall Meeting), 497.
- *Furlong, K.P., and R.B. Hanson, 1991, Modelling thermal regimes, (Short Course lecture at MSA Short Course - Contact Metamorphism, GSA National Meeting) [Invited]
- J.R. Bowers, D.M. Kerrick, and K.P. Furlong, 1991, Conduction modeling of the thermal evolution of metapelites in contact aureoles: Comparative analysis and systematics, (GSA National Meeting, Abstract volume), A49.
- *K.P. Furlong, D. Verdonck, and M. Liu, 1991, Crustal faulting and mantle shear: Where and what is the San Andreas plate boundary, (GSA National Meeting, Abstract volume), A91.

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- *Furlong, K.P., and D. Verdonck, 1992, Modeling crust-mantle coupling along the San Andreas fault system, NASA DOSE Workshop, Pasadena, CA.
- *Furlong, K.P., T. McEvelly, S. Klemperer, and J. McCarthy, 1992, BASIX: Imaging faults in the San Francisco Bay region, IRIS Workshop, Santa Fe, NM.
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