

CURRICULUM VITAE

JOLANTE W. VAN WIJK

POSITIONS HELD

- 2009- Assistant Professor, University of Houston, Department of Earth and Atmospheric Sciences
2008- Adjunct Assistant Professor, University of New Mexico, Albuquerque
2009- Faculty Affiliate, Los Alamos National Laboratory
2006-2009 Director's funded research fellow, Los Alamos National Laboratory, Los Alamos, NM
2003- 2006 Postdoc at IGPP, Scripps Institution of Oceanography, UCSD, La Jolla, CA
2002 Postdoc at Vrije Universiteit, Amsterdam, the Netherlands

EDUCATION

- | | | | |
|-----|--|--------|------------|
| PhD | Vrije Universiteit, Amsterdam, the Netherlands | (2002) | Geology |
| MSc | Utrecht University, Utrecht, the Netherlands | (1997) | Geophysics |
| BSc | Utrecht University, Utrecht, the Netherlands | (1992) | Geophysics |

MS STUDENTS GRADUATED (AND EMPLOYMENT FOLLOWING GRADUATION)

- 2011 Doyle Adams (Marathon Oil)
2010 E.J. Snikeris (Texas American Resources Company)
2010 Katy Hemfelt James (Halliburton)

PUBLICATIONS

- 2011 Karlstrom, K.E., Coblenz, D., Dueker, K., Ouimet, W., Kirby, E., van Wijk, J., Schmandt, B., et al., Mantle-driven dynamic uplift of the Rocky Mountains and Colorado Plateau and its surface response: Toward a unified hypothesis, *Lithosphere*, 2011L150.1, doi:10.1130/L150.1
2011 Coblenz, D., C.G. Chase, K.E. Karlstrom, and J. van Wijk, Topography, the geoid, and compensation mechanisms for the southern Rocky Mountains, *Geochem. Geophys. Geosyst.*, 12, Q04002, doi:10.1029/2010GC003459.
2010 van Wijk, J., S. Baldrige, J. van Hunen, S. Goes, R. Aster, D. Coblenz, S. Grand, J. Ni, Small-scale convection at the edge of the Colorado Plateau: implications for topography, magmatism, and evolution of Proterozoic lithosphere. *Geology* 38, 611-614, doi: 10.1130/G31031.1.
2010 Beutel, E., van Wijk, J., Ebinger, C., Keir, D., and Agostini, A., Formation and stability of magmatic segments in the Main Ethiopian and Afar rifts. In Press, *Earth and Planetary Science Letters*.
2009 Péron-Pinvidic, G., van Wijk, J., Shillington, D., and Gernigon, L., Role of magmatism in continental lithosphere extension: An introduction. *Tectonophysics Special Issue*, 468, 1-5.
2008 van Wijk, J.W. and J. van Hunen, Lithosphere-mantle interactions during rifting and continental breakup. *Bollettino di Geofisica* 49, 342-345.

- 2008 van Wijk, J.W., van Hunen, J. and Goes, S., Small-scale convection during rifting: evidence from the Rio Grande rift. *Geology* 36, 575-578.
- 2008 Karlstrom, K.E., Crow, R., Crossey, L.J., Coblenz, J., and J.W. van Wijk, Model for tectonically driven incision of the younger than 6 Ma Grand Canyon. *Geology* 36, 835-838.
- 2008 van Wijk, J.W., J. Lawrence and N.W. Driscoll, Uplift of the Transantarctic Mountains related to formation of the West Antarctic Rift, Tectonophysics thematic volume on “Geodynamics of lithosphere extension”, doi:10.1016/j.tecto.2008.03.009.
- 2007 Lawrence, J.F., J.W. van Wijk and N.W. Driscoll, Tectonic implications for uplift of the Transantarctic Mountains, in *Antarctica: A Keystone in a Changing World – Online Proceedings of the 10th ISAES X*, edited by A. K. Cooper and C. R. Raymond et al., USGS Open-File Report 2007-1047, Extended Abstract 016, 4 p.
- 2007 van Wijk, J.W., and L. Gernigon, Discussion on “Mechanisms of crustal growth in large igneous provinces: the North Atlantic Province as a case study”, by L. Geoffroy, C. Aubourg, J.P. Callot and J. Barrat. *Geological Society Special Paper* 430.
- 2007 Corti, G., J.W. van Wijk, S.A.P.L. Cloetingh and C. Morley, Tectonic inheritance and continental rift architecture: numerical and analogue models of the East African Rift System, *Tectonics* 26, TC6006, doi:10.1029/2006TC002086.
- 2007 van Wijk, J.W. and D.K. Blackman, Development of an echelon magmatic segments along oblique spreading ridges, *Geology* 35, 599-602, doi:10.1130/G23294.
- 2007 Meyer, R., J.W. van Wijk and L. Gernigon, The North Atlantic Igneous Province: a review of models for its formation, *Geological Society of America Special Paper “The origins of melting anomalies: plumes, plates and planetary processes”* 430, 525-552.
- 2006 Cloetingh, S., Ziegler, P.A., Beekman, F., Andriessen, P.A.M., Hardebol, N., van Wijk, J., and Dèzes, P., Thermo-mechanical controls on Alpine deformation of NW Europe, *Geological Society London Memoirs* 32, 113-127.
- 2005 Van Wijk, J.W., Role of weak zone orientation in continental lithosphere extension, *Geophysical Research Letters*, 32, doi:10.1029/2004GL022192.
- 2005 Van Wijk, J.W. and D.K. Blackman, Dynamics of continental rift propagation: the end-member modes, *Earth and Planetary Science Letters* 229, 247-258.
- 2005 Van Wijk, J.W. and D.K. Blackman, Deformation of oceanic lithosphere near slow-spreading ridge discontinuities, *Tectonophysics* 407, 211-225.
- 2004 Van Wijk, J.W., R. Van Der Meer and S.A.P.L. Cloetingh, Crustal thickening in an extensional regime: application to the mid-Norwegian Vøring margin, *Tectonophysics* 387, 217-228.
- 2003 Corti, G., J.W. Van Wijk, M. Bonini, D. Sokoutis, S. Cloetingh, F. Innocenti and P. Manetti, Transition from continental break-up to punctiform seafloor spreading: how fast, symmetric and magmatic, *Geophysical Research Letters* 30, 10.1029/2003GL017374.
- 2002 Van Wijk, J.W. and S.A.P.L. Cloetingh, Basin migration caused by slow lithospheric extension, *Earth and Planetary Science Letters* 198, 275-288.
- 2002 Pascal, C., J.W. Van Wijk, S.A.P.L. Cloetingh and G.R. Davies, Effect of lithosphere thickness heterogeneities in controlling rift localization: numerical modeling of the Oslo Graben, *Geophysical Research Letters* 29, 10.1029/2001GL014354.
- 2001 Van Wijk, J.W., R.S. Huismans, M. Ter Voorde and S.A.P.L. Cloetingh, Melt generation at volcanic continental margins: no need for a mantle plume? *Geophysical Research Letters* 28, 3995-3998.
- 2001 Van Wijk, J.W., R. Govers and K.P. Furlong, Three-dimensional thermal modeling of the California upper mantle; a slab window vs. stalled slab, *Earth and Planetary Science Letters* 186, 175-186.

PRESENTATIONS AT MEETINGS/CONFERENCES

- 2012 Structure, magmatism and rapid breakup of sheared margins, R. Abera, J. van Wijk, Magmatic

- rifting and active volcanism meeting, Addis Abeba, Ethiopia
- 2011 Evolution of pull-apart basins: insights from numerical models. J van Wijk, D. Adams, M. Murphy, AGU meeting San Francisco, invited talk
- 2011 Small-scale convection at the edge of the Colorado Plateau? J. van Wijk, Earthscope Meeting: the Earthscope Institute: the lithosphere-asthenosphere boundary, Portland, Oregon, invited talk
- 2011 Neogene and ongoing dynamic uplift of the Rocky Mountains due to mantle convection, and its surface manifestations, Karlstrom, K., D. Coblenz, W. Ouimet, E. Kirby, J. van Wijk, B. Schmandt, et al., New Mexico Geological Society Spring Meeting, NM Tech, Socorro
- 2010 Formation and stability of magmatic segments in the Main Ethiopian Rift (invited), J. van Wijk, E.K. Beutel, C.J. Ebinger, D. Keir Abstract T21G-03 presented at 2010 Fall Meeting, AGU, San Francisco, Calif., 13-17 Dec.
- 2010 Grand, S.P., J. van Wijk, W.S. Baldrige, R.C. Aster, J.F. Ni, D. Wilson, Crust and mantle structure beneath the Colorado Plateau (invited), Abstract T14C-03 presented at 2010 Fall Meeting, AGU, San Francisco, Calif., 13-17 Dec.
- 2010 Formation and stability of magmatic rift segments, E. Beutel, J. van Wijk, C. Ebinger. MARGINS Meeting, San Antonio, TX
- 2009 Geodynamic models for the Aspen Anomaly, J. van Wijk and D. Coblenz, invited talk. Colorado Rockies Seismic Experiment (CREST) Meeting, Aspen, CO
- 2009 Small scale convection at the edge of the Colorado Plateau: Implications for topography, magmatism, and evolution of Proterozoic lithosphere. J. van Wijk, W.S. Baldrige, J. van Hunen, S. Goes, R. Aster, D. Coblenz, S. Grand, J. Ni. AGU Fall Meeting
- 2009 Joint inversion of surface wave and gravity data for three-dimensional tomographic imaging of East Africa, Modrak, R, Maceira, M., J. van Wijk, M.E. Pasyanos. AGU Fall Meeting
- 2009 Cenozoic magmatism in the southwestern U.S. and effects on the lithosphere, W.S. Baldrige, J.W. van Wijk. J.F. Ni. AGU Fall Meeting
- 2009 Dynamic uplift of the Colorado Rockies and western Colorado Plateau in the last 6 Ma driven by mantle flow and buoyancy: Evidence from the Colorado River region, K. Karlstrom, D. Coblenz, W. Ouimet, E. Kirby, J. van Wijk, et al., AGU Fall Meeting
- 2009 Asthenosphere flow and mantle lithosphere instabilities below continental rifts and rifted margins, J. van Wijk, invited talk for MARGINS RCL meeting, Charleston, SC
- 2009 Lithosphere detachment below rift margins: implications for depth dependent extension and recycling of lithosphere, J. van Wijk and J. van Hunen, EGU Vienna
- 2009 Mantle flow below continental rift zones, J. van Wijk and J. van Hunen, CIG meeting, Pasadena, CA
- 2008 Lithosphere-mantle interactions below continental rifts, J. van Wijk and J. van Hunen, Eos Trans. AGU, 89(53), Fall Meet. Suppl., Abstract T33F-05.
- 2008 Maintenance of along-axis rift segmentation by stress concentration in magma intrusion zones, C. Ebinger, E. Beutel and J. van Wijk, Eos Trans. AGU, 89(53), Fall Meet. Suppl., Abstract T43FA-1977.
- 2008 Hypothesis for epeirogenic uplift above the Jemez lineament: Is Neogene doming recorded by river profiles and terraces? S.W. Brown, K. Karlstrom, E. Kirby, W. Ouimet, M. Dillon, C. Cox, D. Newell, M. De Moore, J. van Wijk, D. Coblenz, T. Sower, D. Rose Coss, L. Crossey, Eos Trans. AGU, 89(53), Fall Meet. Suppl., Abstract T11C-1894.
- 2008 Colorado River system of the Southwestern U.S.: analysis of the longitudinal profile, differential incision, and hypothesis for dynamic uplift and rapid incision in the last 6 Ma. K. Karlstrom, E. Kirby, S. Kelley, A. Aslan, W. Ouimet, D. Coblenz, J. van Wijk, Eos Trans. AGU, 89(53), Fall Meet. Suppl., Abstract T11C-1896.
- 2008 The geodynamic origins of western U.S. topography: correlations and speculations. D. Coblenz, J. van Wijk, S. Phillips, K. Karlstrom and C. Chace, Eos Trans. AGU, 89(53), Fall Meet. Suppl., Abstract T11C-1892.

- 2008 Lithosphere-mantle interactions below continental rifts, J. van Wijk and J. van Hunen, Eos Trans. AGU, 89(53), Fall Meet. Suppl., Abstract T33F-05.
- 2008 Lithosphere-mantle interactions during rifting and continental breakup, J. van Wijk and J. van Hunen, 3rd Geomod Conference, Florence, Italy
- 2008 Late Cenozoic mantle upwelling at the western and southern margins of the Colorado Plateau? S. Baldrige, J. van Wijk, S. Grand, et al., Geological Society of America meeting, Houston, TX
- 2008 Small scale convection during continental rifting: evidence from the Rio Grande rift, J. van Wijk, J. van Hunen and S. Goes, SSA Meeting, Santa Fe, NM
- 2008 Mantle-lithosphere interactions in continental rift zones, J. van Wijk and J. van Hunen, EGU Meeting, Vienna
- 2007 Numerical models of lithosphere-mantle interaction at continental rift zones, J. van Hunen and J. van Wijk, AGU Fall Meeting
- 2007 Formation of the Rio Grande rift and upper mantle seismic wave velocity anomaly, J. van Wijk, J. van Hunen and S. Goes, AGU Fall Meeting
- 2007 Mechanisms for topographic uplift for the Southern Rocky Mountains, D. Coblenz and J. van Wijk, AGU Fall meeting
- 2007 Edge-driven convection along the Colorado Plateau-Great Basin transition: implications for the morphology and dynamics of the Plateau, J. Ni, J. van Wijk, R. Aster, et al., AGU Fall Meeting
- 2007 Mantle flow beneath continental rift zones; application to the Rio Grande rift, van Wijk, J., van Hunen, J., and S. Goes, Penrose conference "Extending a continent", Greece
- 2007 Recent results from LA RISTRA: the Colorado Plateau and its transition zones, R. Aster and J. van Wijk, Western US Geodynamics workshop, Santa Fe, NM
- 2007 The Aspen Anomaly: speculation on topography-mantle relationships, D. Coblenz and J. van Wijk, Western US Geodynamics workshop, Santa Fe, NM
- 2007 Numerical models of oblique rifting: application to the Gulf of California, van Wijk, J.W., AGU Joint Assembly Acapulco, Mexico
- 2007 Control of tectonic inheritance on the evolution and structure of the western branch of the East African Rift system, G. Corti, J. van Wijk, S. Cloetingh and C. Morley, Riunione annuale Gruppo Italiano Geologia strutturale, Urbino, Italy
- 2007 Numerical modeling of West Antarctic Rift System extension and Transantarctic Mountains uplift, J. van Wijk and J. Lawrence, EGU Vienna
- 2007 Mantle flow beneath continental rift zones, J. van Wijk and J. van Hunen, EGU Vienna
- 2007 Formation of the North Atlantic Igneous Province: what is the role of the Iceland mantle anomaly? R. Meyer, J.W. van Wijk, and L. Gernigon, EGU Vienna
- 2007 Influences on the Topographic Character of the Western U.S.: Speculations on the Role of Inherited Structures, Plate Motion, and Upper Mantle Properties, D. Coblenz, J. van Wijk and K. Karlstrom, EarthScope National Meeting
- 2006 Basin migration: lithospheric vs. crustal controls, T. Mauduit, J. van Wijk, F. Beekman, S. Cloetingh, D. Sokoutis, AGU Fall, San Francisco
- 2006 Lower crustal flow: application to the Basin and Range province, J. van Wijk and C. Lewis, AGU Fall, San Francisco
- 2006 Tectonic inheritance, continental rifts and the transition to segmented seafloor spreading: results from analogue and numerical models, J. van Wijk and C. Corti, AGU Fall, San Francisco
- 2006 Effect of lithospheric strength on lower crustal flow, J. van Wijk, Western U.S. Geodynamics workshop, Aspen, CO
- 2006 Numerical and analogue models of oblique extension: application to the East African Rift, van Wijk, J.W. and Corti, G., MYRES meeting, Italy.
- 2006 Geodynamic models of lithosphere deformation, van Wijk, J.W., MYRES meeting, Italy, invited.
- 2006 Gravity driven deformation on passive margins; is analogue modeling the ultimate tool? Mauduit, T. and van Wijk, J.W., 8th Dutch Earth Science Conference (NAC VIII), Veldhoven, The Netherlands.
- 2006 Mantle flow beneath rift zones, van Wijk, J.W., Upper Mantle Imagin Workshop, WHOI.

- 2006 North Atlantic Igneous Province formation: An interdisciplinary geophysical and geochemical review, Meyer, R., van Wijk, J., and L. Gernigon, EGU Vienna.
- 2006 Oblique extension of slow-spreading ridges, van Wijk, J.W. and D.K. Blackman, EGU Vienna.
- 2006 Modeling the architecture of the East African Rift System, Corti, G. and van Wijk, J.W., EGU Vienna.
- 2005 Depth-dependent extension at passive rifted margins, van Wijk, J.W. and N.W. Driscoll, AGU 05 San Francisco.
- 2005 Formation of volcanic rifted margins: influence of the pre-rift lithosphere architecture, van Wijk, J.W. AGU Chapman Conference on the Great Plume Debate, Fort William, Scotland. Invited lecture.
- 2005 Using Tekton to study 3-D aspects of continental lithosphere extension, van Wijk, J.W. and D.K. Blackman. (Poster) Workshop on community finite element models for fault systems and tectonic studies, Los Alamos National Laboratory, Los Alamos, NM.
- 2005 3-D aspects of lithosphere extension, van Wijk, J.W. Workshop on Geodynamic modeling of tectonic processes, Breckenridge, CO. Invited lecture.
- 2005 Deformation of young oceanic lithosphere, van Wijk, J.W. and D.K. Blackman. Workshop on Geodynamic modeling of tectonic processes, Breckenridge, CO.
- 2004 Deformation of oceanic lithosphere near slow spreading ridge discontinuities, van Wijk, J.W. and D.K. Blackman, AGU 04 San Francisco.
- 2004 Discontinuous continental rift dynamics and continental core complex formation, van Wijk, J.W. and Blackman, D.K., EGU04-A-05305, EGU, Nice, France.
- 2004 Interaction between crustal deformation and mantle dynamics at slow-spreading ridge discontinuities: formation of oceanic core complexes, van Wijk, J.W. and D.K. Blackman, EGU04-A-05301, EGU, Nice, France.
- 2002 Basin migration by slow lithospheric extension, van Wijk, J.W. and S.A.P.L. Cloetingh, EGS, Nice, France.
- 2002 Pre-breakup extensional evolution of the Vøring margin: a modeling study, van Wijk, J.W. and S.A.P.L. Cloetingh, EGS, Nice, France.
- 2002 Influence of the inherited crustal structure on rifting and passive margin formation, van Wijk, J.W. and S.A.P.L. Cloetingh, EGS, Nice, France.
- 2001 Melt generation at volcanic continental margins; no need for a mantle plume? van Wijk, J.W., R.S. Huismans, M. Ter Voorde and S.A.P.L. Cloetingh, EGS, Nice, France.
- 2001 Thermomechanical modeling of intracratonic rifting and magmatism, a case study of the Oslo Graben, Pascal, C., J.W. van Wijk, G.R. Davies and S.A.P.L. Cloetingh, EGS, Nice, France.
- 2000 Melt generation at volcanic continental margins; no need for a mantle plume? van Wijk, J.W., R.S. Huismans, M. Ter Voorde and S.A.P.L. Cloetingh, 5th Dutch Earth Science Conference, Veldhoven, The Netherlands.
- 1999 Evolution of the volcanic Vøring margin: controlling factors on melt generation during continental breakup, van Wijk, J.W. and S.A.P.L. Cloetingh, EGS, The Hague, The Netherlands.
- 1999 Mechanisms for ocean basin formation and volcanic rifted margin evolution in the Northern Atlantic Domain: an integrated approach, Hendriks, B., Y.D. Huigen, R. Van Der Meer, G.R. Murrell, J.W. van Wijk, P.A.M. Andriessen and S.A.P.L. Cloetingh, EGS, The Hague, The Netherlands.
- 1998 3-D thermal modeling of the southern California upper mantle; the tectonic history of microplates, van Wijk, J.W. and R. Govers, EGS, Nice, France.
- 1998 Mechanisms for ocean basin formation and volcanic rifted margin evolution in the Northern Atlantic Domain: an integrated approach, Hendriks, B., Y.D. Huigen, R. Van Der Meer, G.R. Murrell, J.W. van Wijk, P.A.M. Andriessen and S.A.P.L. Cloetingh, 4th Dutch Earth Science Conference (NAC IV), Veldhoven, The Netherlands.
- 1998 3-D thermal modeling of the southern California upper mantle; the tectonic history of microplates, van Wijk, J.W. and R. Govers, 4th Dutch Earth Science Conference (NAC IV), Veldhoven, The Netherlands.

- 1997 Subduction of ridges and very young lithosphere: modeling derived constraints on its occurrence during the Cenozoic in the Northeast Pacific, Govers, R., K.P. Furlong, and J. van Wijk, AGU Chapman conference on the history and dynamics of global plate motions, Marshall, California, June 17-22.

INVITED TALKS

- 2011 AGU Fall Meeting
 2011 Earthscope meeting
 2011 Washington & Lee University, Lexington, VA
 2010 AGU Fall Meeting
 2009 CREST Meeting, Aspen, CO
 2009 MARGINS RCL meeting, Charleston, SC
 2009 Baylor University
 2008 San Diego State University
 2008 University of Southern California
 2008 Stanford University
 2008 North Carolina State University
 2008 University of New Mexico, Albuquerque
 2007 University of Leuven, Belgium
 2006 MYRES (Meeting for Young Researchers in Earth Sciences), Italy
 2005 Chapman Conference: The great plume debate, Fort William, Scotland
 2005 Tectonics Modeling Workshop, Breckenridge, CO
 2005 University of Tennessee, Knoxville
 2005 University of Wisconsin, Madison

PROPOSALS/ AWARDS/GRANTS

- 2010 NSF EAR1015250 \$176,001. Geodynamic Modeling of edge-driven convection. From 9/15/10 to 8/31/2012
 2009 Flinn-Hart award (International Lithosphere Program)
 2008 IGPP (Institute for Geophysics and Planetary Physics) Grant \$42,500
 2008 NSF \$30,000 for “Workshop for Advancing Numerical Modeling of Mantle Convection and Lithospheric Dynamics”, Davis, CA, July 2008 (co-author)
 2008 IGPP (Institute for Geophysics and Planetary Physics) Grant \$62,500
 2007 (NSF) CREST project, “Aspen Anomaly Experiment: Paleosuture or small plume? And its neotectonic expressions”, by K.E. Karlstrom (UNM), K. Dueker (U. Wyoming), E. Kirby (Penn State), D. Coblenz (LANL), J.W. van Wijk (LANL), S. Kelley (UNM), R. Aster (NM Tech), C. Shaw (Montana State): amount awarded to me \$27,000
 2005 Los Alamos National Laboratory Director’s funded research grant (2 years salary + \$20,000 per year for travel)
 2005 (NSF-OCE) “Finite element modeling of depth-dependent extension at passive rifted margins: examining the cause and timing of the upper plate paradox”, with Neal Driscoll as PI (GRD, Scripps)
 2002 3-year postdoctoral fellowship at the School of Ocean and Earth Science, University of Southampton, U.K.
 2002 3-year post-doctoral fellowship “Veni” by the Dutch Science Organization (NWO). This is a

€200,000 grant

COURSES TAUGHT

Physical Geology (Undergraduate course) (spring 2009, spring 2010, fall 2010, spring 2011, fall 2011)
Geodynamics (Graduate course) (fall 2009, fall 2011)
Basin Modeling (Graduate course) (spring 2010, spring 2012)
Tectonics of Sedimentary Basins (Graduate course, professional program) (summer 2010, spring 2012)
Solid Earth Seminar (Graduate course) (spring 2011)

SELECTION OF SERVICE ACTIVITIES

2011 AGU Tectonophysics Program Committee Leader
2010 MARGINS-GeoPRISMS Santa Fe Co-convenor & Science writer
2010 Computational Infrastructure for Geodynamics Long-term Tectonics working group co-lead
2010 AGU Tectonophysics Program Committee
2009 Convenor AGU Fall Meeting “Lithosphere and Asthenosphere Interaction: Top Down or Bottom Up?”
2009 Convenor AGU Fall Meeting “Tectonic, Sedimentary, Magmatic, and Thermal Evolution of Lithospheric Extension Leading to Continental Breakup and Seafloor Spreading”
2009-2008 Guest Editor G-cubed Thematic Volume on Magma-rich extensional environments
2008 Convenor AGU Fall Meeting “Magma-rich extensional environments: evolution of continental basins and rifted continent margins”
2008 Convenor AGU Fall Meeting “Wrinkles aren’t just skin deep: surface expressions of mantle-lithosphere coupling”
2008 Organizer CIG Workshop for Advancing Numerical Modeling of Mantle Convection and Lithospheric Dynamics, UC Davis
2007- Member CIG (Computational Infrastructure for Geodynamics) long term tectonics working group
2007 Convenor AGU Fall Meeting “Bringing together observations and models at rifted margins and extensional basins”
2007 Convenor AGU Fall Meeting “The effect of lithospheric elements on mantle processes”
2007/2008 Editor Elsevier, Tectonophysics Special Publication on “Volcanic and magma-starved rifts and rifted margins”.
2007 Convenor EGU-Vienna “Failed vs. successful rifts: mechanisms for rift evolution”
2006 Co-convenor AGU Fall meeting “Extensional Processes Leading to the Formation of Basins and Rifted Margins, From Volcanic to Magma-Limited”
2006 Lecturing Los Alamos Summer School (upper level undergraduates)
2004-2005 Reviewer for NASA National Student Competitions (SCOPE)

Reviewer for NSF, European Science Foundation (ESF), Tectonophysics, Global and Planetary Change, Journal of African Earth Sciences, Geological Society of America Special Paper, Geophysical Research Letters, Geophysical Journal International, Geology, Nature, Tectonics, G-cubed, Geological Magazine, Marine and Petroleum Geology, Earth and Planetary Science Letters, Geosphere