

CURRICULUM VITAE

Paul G. Fitzgerald

Nationality: New Zealand and US (October 2007)
Current Address: Department of Earth Sciences, Syracuse University
Syracuse, NY 13244, USA

Education

1980 B. Sc., Zoology, Victoria University of Wellington (V.U.W.), New Zealand
1981 Transitional Certificate in Geology, V. U. W.
1982 B. Sc. (Hons.) Geology, First Class, First Place, V.U.W.
1987 Ph.D., Geology, University of Melbourne, Australia

Professional Experience

2008-present Professor, Syracuse University
2000-2008 Associate Professor, Syracuse University
2006 (Feb-May) Visiting Scientist, Lamont Doherty Earth Observatory at Columbia University, New York
2005 (Feb-May) Visiting Scientist, Antarctic Research Centre, Victoria University of Wellington, New Zealand
1998-2000 Associate Research Scientist, University of Arizona
1997-1998 Science Strategy Manager, New Zealand Antarctic Institute
1993-1996 Associate Research Scientist, University of Arizona
1990-1993 Faculty Research Associate, Arizona State University
1988-1989 Post Doctoral Research Associate, Arizona State University
1983-1987 Research assistant, teaching assistant, Department of Geology, University of Melbourne, Australia
1982-1983 Amoco Minerals (New Zealand Limited); Geologist

Teaching experience: Syracuse University

EAR 101 Dynamic Earth
EAR 105 Earth Sciences
EAR 333 Structural Geology
EAR 431/631 Plate Tectonics
EAR 444/644 Thermochronology
EAR 430/630 Research seminars in tectonics and thermochronology. Topics include:
(U-Th)/He dating
Active tectonics of New Zealand
Tectonic evolution of Antarctica
Continental extensional tectonics
Active Tectonics
Tectonics of New Guinea
EAR 690 and EAR 990 Independent Studies
HNR 100 Honors Seminar: Earth sciences, exploration and extreme environments
CAS 101 First Year Forum

Research Interests

Tectonics and long-term landscape development, specifically the application of, as well as further development of, low-temperature thermochronologic techniques toward the resolution of uplift and exhumation histories of mountain belts in a variety of plate tectonic environments; i.e., vertical tectonics and how these relate to regional tectonic events.

Present studies include: [1] the tectonic evolution of the Transantarctic Mountains and the Ellsworth -Whitmore Mountains microplate of West Antarctica by application of thermochronology and through numerical modeling (collaborative); NSF supported, [2] the tectonic evolution and denudation history of the Pyrenean Orogen; NSF supported, [3] testing models for continental detachment fault systems in the southwestern United States using structural, paleomagnetic and thermochronologic constraints; NSF supported, [5] testing models for continental break-up by studying the propagation of sea-floor spreading into continental crust in eastern Papua New Guinea; NSF supported, [6] understanding the uplift and formation of the Alaska Range, and the mechanisms responsible for its formation; NSF supported.

Research Publications

* denotes student author

Baldwin, S.L., P.G. Fitzgerald and L.E. Webb, In press 2012. Tectonics of the New Guinea region. Annual Reviews of Earth and Planetary Sciences.

Miller, S.R., S.L. Baldwin and P.G. Fitzgerald, P.G., in press 2011. Transient Fluvial Incision and Surface Uplift of Active Metamorphic Core Complexes in the D'Entrecasteaux Islands and Suckling-Dayman Massif, Papua New Guinea, Lithosphere.

Little, T.A., B.R. Hacker, S.M. Gordon, S.L. Baldwin, P.G. Fitzgerald; S.E. Ellis and M. Korchinski, 2011. Diapiric Exhumation of Earth's youngest (UHP) eclogites in the gneiss domes of the D'Entrecasteaux Islands, Papua New Guinea, Tectonophysics. doi:10.1016/j.tecto.2011.06.006

*Benowitz, J.A., P.W. Layer, P.A. Armstrong, S.E. Perry, P.J. Haeussler, P.G. Fitzgerald and S. Vanlaningham, 2011, Spatial Variations in Focused Exhumation Along a Continental-Scale Strike-Slip Fault: the Denali Fault of the Eastern Alaska Range, Geosphere. v. 7; no. 2; p. 455-467; doi: 10.1130/GES00589.1.

*Beamud, E., J.A. Munoz, P.G. Fitzgerald, S.L. Baldwin, M. Garcés, L. Cabrera and J.R. Metcalf, 2010. Magnetostratigraphy and detrital apatite fission track thermochronology in syntectonic conglomerates: constraints on the exhumation of the South-Central Pyrenees. Basin Research. DOI: 10.1111/j.1365-2117.2010.00492.x

*Taylor, J.A. and P.G. Fitzgerald, 2010, Post-Jurassic thermal history and exhumation of the Eastern Adirondack Mountains associated with movement over the Great Meteor Hotspot: Constraints from low-temperature thermochronology. Geological Society of America Bulletin, v. 123, p. 412-426, doi: 10.1130/B30138.1.

*Swaney, Z.A., Duebendorfer, E.M., Fitzgerald, P.G., and W.C. McIntosh, 2010. New core complex model for the South Virgin-White Hills detachment and extension in the eastern Lake Mead Area, southern Nevada and northwestern Arizona. In Umhoefer, P.J., L.S. Beard and M.A. Lambs, eds., Miocene tectonics of the Lake Mead region, central Basin and Range. Geological Society of America Special Paper 463, p. 353-370, doi: 10.1130/2010.2463(16).

- Miller, S.R., Fitzgerald, P.G., and Baldwin, S.L., 2010. Cenozoic range-front faulting and development of the Transantarctic Mountains near Cape Surprise, Antarctica: Thermochronologic and geomorphic constraints. *Tectonics*, 29, TC1003, doi:10.1029/2009TC002457.
- Metcalf, J.R., Fitzgerald, P.G., Baldwin, S. and J.A. Muñoz, 2009, Thermochronology in a convergent orogen: Constraints on thrust faulting and exhumation from the Maladeta Pluton in the Axial Zone of the Central Pyrenees. *Earth and Planetary Science Letters* 287, 488-503.
- Fitzgerald, P. G., E. M. Duebendorfer, J. E. Faulds, and P. O'Sullivan, 2009, South Virgin–White Hills detachment fault system of SE Nevada and NW Arizona: Applying apatite fission track thermochronology to constrain the tectonic evolution of a major continental detachment fault, *Tectonics*, 28, TC2001, doi:10.1029/2007TC002194.
- Webb, L.E., S.L. Baldwin, T.A. Little and P.G. Fitzgerald, 2008. A microplate rotation model for subduction eversion. *Geology*. 36(10), p. 823–826; doi: 10.1130/G25134A.1.
- Redfield, T.F., D.W. Scholl, P.G. Fitzgerald and M.E. Beck, 2007. The extrusion of Alaska, past, present and future. *Geology* 35(11), 1039-1042; doi: 10.1130/G23799A.1.
- *Monteleone, B.D., S.L. Baldwin, L.E. Webb, P.G. Fitzgerald, M. Grove and A.K. Schmitt, 2007. Late Miocene-Pliocene eclogite-facies metamorphism, D'Entrecasteaux Islands, SE Papua New Guinea. *Journal of Metamorphic Geology*, 25, 245-265.
- *Bialas, R.W., W.R. Buck, M. Studinger and P.G. Fitzgerald; 2007. Plateau Collapse Model for the Transantarctic Mountains / West Antarctic Rift System: Insights from Numerical Experiments. *Geology* 35(8), 687-690; doi: 10.1130/G23825A.
- Fitzgerald, P.G. and S.L. Baldwin, 2007. Thermochronologic constraints on Jurassic rift flank denudation in the Thiel Mountains, Antarctica, in *Antarctica: A keystone in a Changing World - Online Proceedings of the 10th ISAES*, edited by A. K. Cooper and C. R. Raymond et al., USGS Open-File Report 2007-1047, Short Research Paper 044, 4 p.; doi10.3133/of2007-1047.srp044. <http://pubs.usgs.gov/of/2007/1047/>.
- Baldwin, S.L., T. Rawling and P.G. Fitzgerald, 2006. Thermochronology of the New Caledonia high pressure terrane: Implications of mid-Tertiary plate boundary in processes in the southwest Pacific, *in* *Convergent Margin Terranes and Associated Regions: A Tribute to W.G. Ernst*, Geological of America Special Paper 419, Editors M. Cloos, W. D. Carlson, M. C. Gilbert, J. G. Liou, and S. S. Sorensen, p. 117-134.
- Little, T.A., S.L. Baldwin, P.G. Fitzgerald and B. *Monteleone, 2007. A young metamorphic core complex on Normanby Island, D'Entrecasteaux Islands, Papua New Guinea: Continental rifting processes near the Woodlark spreading ridge. *Tectonics*, 26, TC1002, doi: 10.1029/2005TC001911.
- Studinger, M., R.E. Bell, P.G. Fitzgerald and W.R. Buck, 2006. Crustal architecture of the Transantarctic Mountains between the Scott and Reedy Glacier region and South Pole from aerogeophysical data. *Earth and Planetary Science Letters*, 250, 182-199, doi:10.1016/j.epsl.2006.07.035.
- Fitzgerald, P.G., S.L. Baldwin, L.E. Webb and P.B. O'Sullivan, 2006. Interpretation of (U-Th)/He single grain ages from slowly cooled crustal terranes: A case study from the Transantarctic Mountains of southern Victoria Land. *Chemical Geology*, 225, 91-120.
- Gallagher, K., J. Stephenson, R. Brown, C. Holmes and P.G. Fitzgerald, 2005. Low temperature thermochronology and modeling strategies for multiple samples 1: Vertical profiles. *Earth and Planetary Science Letters*, 237, p. 193-208.

- Baldwin, S.L. B. *Monteleone, L.E. Webb, P.G. Fitzgerald, M. Grove and E.J. Hill, 2004. Pliocene eclogite exhumation at plate tectonic rates in eastern Papua New Guinea, *Nature*. 431, 263-267.
- Batt, G.E., S.L. Baldwin, *Cottam, P.G. Fitzgerald and M. Brandon, 2004. Cenozoic plate boundary evolution in the South Island of New Zealand: New thermochronological constraints, *Tectonics*, 23(4), TC4001, 10.1029/2003TC001527.
- Siddoway, C.S., S.L. Baldwin, P.G. Fitzgerald, C.M. Fanning and B.P. Luyendyk, 2004. Ross Sea mylonites and the timing of intracontinental extension within the West Antarctic rift system: *Geology*, 32(1), 57-60.
- Fitzgerald, P.G., 2002. Apatite fission track ages associated with the altered igneous intrusive in Beacon Sandstone near the base of CRP-3, Victoria Land Basin, Antarctica. *Terra Antarctica*, 8(3), 1-7
- Fitzgerald, P.G., 2002. Tectonics and landscape evolution of the Antarctic plate since Gondwana breakup, with an emphasis on the West Antarctic rift system and the Transantarctic Mountains. In: Gamble, J.A.; Skinner, D.N.B.; Henrys, S. Eds., *Antarctica at the close of a Millennium. Proceedings of the 8th International Symposium on Antarctic Earth Science*. The Royal Society of New Zealand Bulletin 35: p. 453-469.
- *Monteleone, B.D., S.L. Baldwin, T.R. Ireland and P.G. Fitzgerald, 2001. Thermochronologic constraints for the tectonic evolution of the Moresby Seamount, Woodlark Basin, Papua New Guinea. *Proceedings of the Ocean Drilling Project Leg 180*. http://www-odp.tamu.edu/publications/180_SR/180TOC.HTM.
- *Miller, S.R., P.G. Fitzgerald and S.L. Baldwin, 2001. Structure and kinematics of the central Transantarctic Mountains: Constraints from structural geology and geomorphology near Cape Surprise. *Terra Antarctica*, 8(1), 11-24.
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- Fitzgerald, P.G., J.A. Muñoz, P.J. Coney and S.L. Baldwin, 1999. Asymmetric exhumation across the Pyrenean orogen: implications for the tectonic evolution of collisional orogens, *Earth and Planetary Science Letters*, 173, 157-170.
- Fitzgerald, P.G., 1999. Cretaceous - Cenozoic tectonic evolution of the Antarctic Plate, *Terra Antarctica Reports No. 3*, 109-130, Siena, Italy.
- Stump E. and P.G. Fitzgerald, 1997. Geology and regional significance of the Cox Peaks Roof Pendant, Central Scott Glacier Area, Antarctica. In: Ricci C.A. (ed.), *The Antarctic Region: Geological Evolution and Processes*, Terra Antarctica Publication, Siena, 209-212.
- Fitzgerald P.G. and S.L. Baldwin, 1997. Detachment Fault Model for the Evolution of the Ross Embayment. In: Ricci C.A. (ed.), *The Antarctic Region: Geological Evolution and Processes*, Terra Antarctica Publication, Siena, 555-564.
- Fitzgerald, P. G., and E. Stump, 1997. Cretaceous and Cenozoic episodic denudation of the Transantarctic Mountains, Antarctica: New Constraints from apatite fission track thermochronology in the Scott Glacier region, *Journal of Geophysical Research*, 102, 7747-7765.
- Fitzgerald, P.G., R.B. Sorkhabi, T.F. *Redfield and E. Stump, 1995. Uplift and denudation of the central Alaska Range: A case study in the use of apatite fission-track thermochronology

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- Fitzgerald, P.G., 1994. Thermochronologic constraints on post-Paleozoic tectonic evolution of the central Transantarctic Mountains, Antarctica, *Tectonics*, 13, 818-836.
- Goldstrand, P.M., P.G. Fitzgerald, T.F. *Redfield, E. Stump and C. Hobbs, 1994. Stratigraphic evidence for the Ross orogeny in the Ellsworth Mountains, West Antarctic: Implications for the evolution of the paleo-Pacific margin of Gondwana, *Geology*, 22, 427-430.
- Fitzgerald, P.G., S.J. Reynolds, E. Stump, D.A. Foster and A.J.W. Gleadow, 1994. Thermochronologic evidence for timing of denudation and rate of crustal extension of the South Mountains metamorphic core complex and Sierra Estrella, Arizona, *Nuclear Tracks and Radiation Measurements*, 21, 555-563.
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- *Redfield, T.F. and P.G. Fitzgerald, 1993. The Denali fault system of southern Alaska: An interior strike-slip structure responding to opposing inter-plate relative motions *Tectonics*, 12, 1195-1208.
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- Foster, D.A., A.J.W. Gleadow, S.J. Reynolds, and P.G. Fitzgerald, 1993. Denudation of metamorphic core complexes and the reconstruction of the Transition Zone, West Central Arizona: Constraints from apatite fission track thermochronology. *Journal of Geophysical Research*, 98, 2167-2185.
- Fitzgerald, P.G., and E. Stump, 1992. Early Cretaceous uplift in the southern Sentinel Range, Ellsworth Mountains, West Antarctica. in *Recent Progress in Antarctic Earth Science*, Y. Yoshida, K. Kaminuma and K. Shiraishi (Editors), pp. 331-340, TERRAPUB, Tokyo.
- Fitzgerald, P.G., 1992. The Transantarctic Mountains in southern Victoria Land: The application of apatite fission track analysis to a rift-shoulder uplift. *Tectonics*, 11, 634-662.
- *Paul, T. A., and P.G. Fitzgerald, 1992. Transmission electron microscopy investigation of fission tracks in fluorapatite: *American Mineralogist*, 77, 336-344.
- Stump, E., and P.G. Fitzgerald, 1992. Episodic uplift of the Transantarctic Mountains. *Geology*, 20, 161-164.
- Fitzgerald, P.G., and E. Stump, 1991. Early Cretaceous uplift in the Ellsworth Mountains of West Antarctica. *Science* 254, 92-94.
- Fitzgerald, P.G., J.E. Fryxell and B.P. Wernicke, 1991. Miocene crustal extension and uplift in southeastern Nevada: Constraints from apatite fission track analysis. *Geology*, 19, 1013-1016.
- Fitzgerald, P.G. and A.J.W. Gleadow, 1990. New approaches in fission track geochronology as a tectonic tool: Examples from the Transantarctic Mountains. *Nuclear Tracks and Radiation Measurements*, 17, 351-357.
- Stump, E., P.G. Fitzgerald and A.J.W. Gleadow, 1990. Comparison through fission-track analysis of portions of Australia and Antarctica adjacent prior to continental drift. *Nuclear Tracks and Radiation Measurements*, 17, 359-365.

- Wagner, G.A., A.J.W. Gleadow and P.G. Fitzgerald, 1989. The significance of the partial annealing zone in apatite-fission-track-analysis: Uplift chronology of the Transantarctic Mountains. *Isotope Geoscience*, 79, 295-305.
- Fitzgerald, P.G. and A.J.W. Gleadow, 1988. Fission track geochronology, tectonics and structure of the Transantarctic Mountains in Northern Victoria Land, Antarctica, *Isotope Geoscience*, 73, 169-198.
- Kamp, P.J.J. and P.G. Fitzgerald, 1987. Geologic constraints on the Antarctica-Australia-Pacific relative plate motion circuit. *Geology*, 15, 694-697.
- Gleadow, A.J.W. and P.G. Fitzgerald, 1987. Tectonic history and structure of the Transantarctic Mountains: New evidence from fission track dating in the Dry Valleys area of southern Victoria Land, *Earth and Planetary Science Letters*, 82, 1-14.
- Fitzgerald, P.G., M. Sandiford, P.J. Barrett and A.J.W. Gleadow, 1986. Asymmetric extension in the Transantarctic Mountains and Ross Embayment, *Earth and Planetary Science Letters*, 81, 67-78.
- Fitzgerald, P.G. and P.J. Barrett, 1986. *Skolithos* in a Permian braided river deposit, Southern Victoria Land, Antarctica. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 52, 237-247.
- Barrett, P. J. and P.G. Fitzgerald, 1985. Deposition of the Lower Feather Conglomerate, a Permian braided river deposit in South Victoria Land, Antarctica, with notes on the regional paleogeography. *Sedimentary Geology*, 45, 189-208.

Other Contributions

- Fitzgerald, P.G., J. Benowitz, P. Haeussler, S. Perry, P. Brease, and J. Garver, 2008. Tectonics and Neotectonics of south-central Alaska. FT2008 (11th International Conference on Thermochronometry, 15-19 September 2008, Anchorage Alaska) Pre-Conference Field-trip, 50 p.
- Wilson, T.J., R.E. Bell, P.G. Fitzgerald, S.B. Mukasa, R.D. Powell and C. Finn, 2008. Summary and highlights of the 10th International Symposium on Antarctic Earth Sciences. In *Antarctica: A keystone in a Changing World. Proceedings of the 10th International Symposium on Antarctic Earth Sciences*, edited by A. K. Cooper et al. The National Academies Press, Washington D.C. p. 1-6.
- Fitzgerald, P.G., 1999. Book review of "Innocents on the Ice: A Memoir of Antarctic Exploration, 1957" by John Behrendt, University Press of Colorado xviii + 428 p. *Proceedings of the American Geophysical Union*, EOS 80(27) p. 304.
- *Miller, S.R., P.G. Fitzgerald, and S.L. Baldwin, 1998, Mid-Cenozoic Pediplanation of the central Transantarctic Mountain Front between the Shackleton and Liv Glaciers, *Antarctic Journal of US*.
- A New Zealand Science Strategy for Antarctica and the Southern Ocean, 1998, *Antarctica New Zealand Misc. Series 4*, 35 pp, (first and second drafts written/compiled by me while I was the Science Strategy Manager at Antarctica New Zealand).
- Fitzgerald, P.G., and T.D. Higham, 1997, (editors), *Antarctic Science Beyond 2000; Report from a strategic science directions workshop*, Christchurch, New Zealand, *Antarctica New Zealand Misc. Series 1*, 133 pp.

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- Kyle, P, and P.G. Fitzgerald, 1995. Investigations in areas of geophysics, structural geology, igneous geology, and tectonic history. p. 41-42, in Webb, P.N. and Wilson, G.S. (eds), *Cape Roberts Project: Antarctic Stratigraphic Drilling*. Proceeding of a meeting to consider the project science plan and potential contributions by the U.S. science community, 6-7 March, 1994. BPRC Report No. 10, Byrd Polar Research Centre, The Ohio State University, Columbus, Ohio, 117 pp.
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- Fitzgerald, P.G., 1994. Evidence for uplift of the Transantarctic Mountains: Fact or Fiction. in Wilson, T.J., and Flynn, C. (eds), *Geodynamic evolution of the Transantarctic Mountains and West Antarctic Rift System*, BPRC Report No. 12, Byrd Polar Research Centre, The Ohio State University, Columbus, Ohio.
- *Redfield, T.F. P.G. Fitzgerald and M. Roberts, 1993. Fission track investigations of lithotectonic histories: northern Victoria Land, 1993. *Antarctic Journal of US*, 28, 41-42.
- Fitzgerald, P.G., T.F. *Redfield, P.M. Goldstrand and C. Hobbs, 1993. Geologic and fission track studies in the Heritage Range, Ellsworth Mountains and nunataks of West Antarctica, 1993. *Antarctic Journal of US*, 28, 43-46.
- Fitzgerald, P.G., 1994. Uplift of the Transantarctic Mountains: Constraints from fission track thermochronology. In: LIRA (Lithospheric Investigations in the Ross Sea Area) Workshop on Landscape Evolution: A multidisciplinary approach to the relationship between Cenozoic climate change and tectonics in the Ross Sea area, Antarctica. edited by F.M. van der Wateren, A.L.L.M Verbers, and F. Tessensohn. Haarlam.; Rijks Geologische Dienst. - III. Met lit (Geological Survey of The Netherlands), p. 41-46.
- Fitzgerald, P.G., T.F. *Redfield, S.J. Reynolds and E. Stump, 1992. Fission track studies in northern Victoria Land in the 1991-1992 field season. *Antarctic Journal of US*, 27, 12-14.
- Stump, E. and P.G. Fitzgerald, 1990. Field collection for apatite fission track analysis, Ellsworth Mountains. *Antarctic Journal of US*, 25, 38-39.
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- Fitzgerald, P.G., 1986. Fission track tectonics of the Transantarctic Mountains, Beardmore Glacier area. *Antarctic Journal of US* 21, p. 38-41.
- Fitzgerald, P.G., 1986. Fission Track Studies - Beardmore Glacier. In: Barrett, P.J. (Editor), *Immediate Report of Victoria University of Wellington Antarctic Expedition 30, 1985/86*, p. 13-17.

- Fitzgerald, P.G., 1985. Bedrock Studies. In: Pyne, A. (Editor), 1985. Immediate Report of Victoria University of Wellington Antarctic Expedition 29, 1984-85, p. 22-25.
- Fitzgerald, P.G., 1984. Bedrock Studies. In: Pyne, A. (Editor), 1984. Immediate results of Victoria University of Wellington Antarctic Expedition 28, 1983-84, p. 15-20.
- Fitzgerald, P.G., 1982. Environment of deposition of the Feather Conglomerate at Mt Bastion, South Victoria Land, Antarctica. In: Barrett, P.J. (Editor), 1982. Immediate results of Victoria University of Wellington Antarctic Expedition 26, 1981-82, p. 12.

Abstracts – see appendix at end

Funding:

- “Alpine deformation and exhumation of the Pyrenean intraplate orogen”. EAR-declined; National Science Foundation Tectonics, (Fitzgerald PI, S.L. Baldwin - co-PI).
- "Collaborative Research": Causes and mechanisms of focused exhumation along the Denali fault, Eastern Alaska Range. EAR- 0952800, National Science Foundation Tectonics. \$139,856. 1/10 – 1/12, (Fitzgerald PI). Collaborative with the University of Alaska (Fairbanks) and the University of California (Davis).
- "Collaborative Research: How is rifting exhuming the youngest HP/UHP rocks on Earth?" National Science Foundation Continental Dynamics, EAR-0709054 \$1,282,741 (S.L. Baldwin - PI; Fitzgerald Co-PI, L.E. Webb Co-PI), 7/1/07 - 6/30/12. Collaborative with Boston University, Columbia University Lamont Doherty Earth Observatory, University of Texas at Austin, University of California at Santa Barbara.
- Along-strike variation of the uplift and exhumation of the Pyrenean Orogen: Constraining the evolution of an intra-plate orogen. EAR-0538216; National Science Foundation Tectonics. \$315,028. 7/1/06 - 6/30/10, (Fitzgerald PI, S.L. Baldwin - co-PI).
- Phase II Technician Support: Syracuse University Noble Gas Isotope Research Laboratory/(SUNGIRL) National Science Foundation, Instrumentation and Facilities. EAR 0447305. \$150,000. 7/01/05 - 6/31/07. Syracuse University Matching funds \$21,112. (S.L. Baldwin - PI; Fitzgerald Co-PI).
- Collaborative Research: Dynamic Models for the Tectonic Evolution of the Transantarctic Mountains and the Ross Embayment. National Science Foundation, Polar Programs. OPP 03-38009. \$38,843, 2/1/04 - 1/31/07. (Fitzgerald - PI. Collaborative with Roger Buck and Mike Studinger, Columbia University Lamont Doherty Earth Observatory).
- Continental extension in the western Woodlark Basin: P-T-t-D constraints from Normanby and Misima Islands. National Science Foundation, Tectonics, EAR 02-08334. \$312,009. 5/15/02 - 5/14/06. (S.L. Baldwin, co-PI).
- Technician support: Syracuse University Noble Gas Isotope Research Laboratory (SUNGIRL). National Science Foundation, Instrumentation and Facilities. EAR 01-30833. \$210,000. Syracuse University Matching funds \$33,924. 3/1/02 - 2/29/06. (S.L. Baldwin, co-PI).
- "Supplement" Tracking the West Antarctic rift flank. National Science Foundation, Polar Programs. OPP-9615294. \$65,000. 7/1/01 – 6/31/04. (S.L. Baldwin, co-PI).

- "REU Supplement" Tracking the West Antarctic rift flank, National Science Foundation, Polar Programs. OPP-9615294. \$5,000. 9/1/02 - 8/31/04. (S.L. Baldwin, co-PI).
- "Collaborative Research": Exhumation of the Transantarctic Mountains: Constraints from (U-Th)/He dating of apatites", National Science Foundation, Polar Programs, OPP-0002824. \$65,000. 6/1/00 - 5/31/03. (S.L. Baldwin, co-PI). Collaborative with K. Farley, California Institute of Technology.
- "Collaborative Research": Four-dimensional evaluation of a major continental detachment fault: Structural, paleomagnetic and thermochronologic constraints", National Science Foundation, Tectonics. EAR-0002008. \$106,996. 4/1/00 - 3/31/04. Collaborative with J. Faulds (University of Nevada at Reno) and E. Duebendorfer (northern Arizona University) co-PIs.
- Travel grant from International Programs, University of Arizona. Partial support for travel to the Geological Society of America Penrose conference on "Mid-Cretaceous to Recent Plate Boundary Processes in the Southwest Pacific", March 25-30, 1999. Arthurs Pass, South Island, New Zealand, \$700.
- Tracking the West Antarctic rift flank, National Science Foundation, Polar Programs. OPP-9615294. \$465,000. 7/1/98 - 8/31/04. (S.L. Baldwin, co-PI).
- Travel grant from International Programs, University of Arizona. Partial support for travel to the Geological Society of America Penrose conference on Exhumation Processes: Normal Faulting, Ductile Flow and Erosion, Crete, October 8-13, 1996, \$500.
- Travel grant from International Programs, University of Arizona. Partial support for travel to the Seventh International Symposium on Antarctic Earth Sciences, Siena, Italy, September 10-15, 1995. \$500.
- Upgrade of mineral separation laboratory and thermochronology research facilities, National Science Foundation, Instrumentation and Facilities. EAR9508075. \$30,000. University of Arizona matching funds \$29,980. (S.L. Baldwin, Co-PI).
- Center for Thermochronology and Noble Gas Studies at the University of Arizona, W. M. Keck Foundation \$300,000, University of Arizona matching funds \$40,000. (S.L. Baldwin, T. Swindle, M. Zreda Co-PIs).
- Uplift and exhumation of the axial zone in the Pyrenean Orogen, Spain, National Science Foundation, Tectonics. EAR 95-06454. \$119,999. 1995-99. (P.J. Coney, Co-PI).
- Thermochronologic constraints on the formation of the Transantarctic Mountains, Antarctica, National Science Foundation, Polar Programs. OPP 93-16720. 1994-99. \$286,183. (S.L. Baldwin, Co-PI).
- "Supplement": Temporal evolution of the Transantarctic Mountains and West Antarctica, National Science Foundation, Polar Programs. \$1952 for travel money for Fitzgerald to attend LIRA (Lithospheric Investigations in the Ross Sea Area) Workshop on Landscape Evolution. Haarlem, The Netherlands, September 28 - October 2, 1992.
- Temporal evolution of the Transantarctic Mountains and West Antarctica, National Science Foundation, Polar Programs. DPP 91-17441. \$175,003. 1992-94. (E. Stump, Co-PI).
- Uplift history of the Transantarctic Mountains in northern Victoria Land, National Science Foundation, Polar Programs. DPP 90-17763. \$176,714. 1991-94. (E. Stump, Co-PI).

Uplift history of the central Alaska Range, National Science Foundation, Polar Programs, DPP 88-21937. \$99,259. 1989-91. (E. Stump, Co-PI).

Uplift history of the Ellsworth Mountains, Antarctica, National Science Foundation, Polar Programs. DPP 88-16655. \$117,685. 1989-91. (E. Stump, Co-PI).

British Antarctic Survey travel grant to the Fifth International Symposium on Antarctic Earth Sciences, Cambridge, England, August 24-30, 1987. US\$500.

Five seasons of support for fieldwork in Antarctica as part of Victoria University of Wellington Antarctic Expeditions, including support as the only New Zealand field-party in the U.S. Beardmore Glacier Expedition 1985-86. Priceless.

Science Strategy Experience

- Science Strategy Manager, Antarctica New Zealand (1997-98)
- Co-Convenor, “Antarctic Science Beyond 2000: A Strategic Science Directions Workshop” – a multidisciplinary workshop to plan future science themes and directions for New Zealand science in Antarctica, April 16-18, 1997.
- Editor, “Antarctic Science Beyond 2000” – workshop report, 133 pp.
- Leader, lead writer and compiler of: “Antarctic Science Beyond 2000” A New Zealand Strategy for Antarctic Science.
- Management of the 1997 New Zealand Antarctic bidding round. This included complete rewriting of the application forms and guidelines, selection of the review panel and referees, management of the panel meeting, notification and negotiation with the applicants regarding the outcome of their proposals.
- New Zealand Delegate to the 1997 Antarctic Treaty Consultative Meeting.
- Keynote speaker, workshop on the History of the Antarctic Ice Sheet, 1997.
- Participant at a workshop to define the future direction of ANTOSTRAT (Antarctic Offshore Acoustic Stratigraphy and Seismic Project) and to prepare a strategy for submission to SCAR (Scientific Committee on Antarctic Research), 1997.
- Keynote speaker and participant at the US Planning Workshop on Science Objectives and requirements on “Stratigraphic Drilling in Antarctica - the Cape Roberts Project”, 1994.
- Invited speaker and participant at a workshop on planning for future geological research in the Ellsworth Mountains of Antarctica, 1994.
- Keynote speaker and participant at a workshop to review the Geodynamic Evolution of the Transantarctic Mountains and West Antarctic Rift System and to determine future research directions, 1994.

Conference Participation.

- 2011 Geological Society of America Annual Meeting, Minneapolis, Minnesota, October 9-12, lead author on one presentation, co-author on 5 other papers (one invited).
- 2011 Goldschmidt2011, Prague, Czech Republic, August 14-19, lead author on one presentation.
- 2011 AGAP (Antarctica’s Gamburstsev Province) Workshop, May 5-6, Lamont Doherty Earth Observatory, Palisades, NY, invited speaker.

- 2010 American Geophysical Union Fall Meeting, San Francisco, December 14-18, lead author on one presentation, co-author on 5 other papers.
- 2010 National Science Foundation supported GeoPRISMS Implementation Workshop: Rift Initiation and Evolution. Santa Fee, New Mexico, November 4-6, 2010.
- 2010 Geological Society of America Annual Meeting, Denver Colorado, October 31 – November 3, co-author on 1 paper.
- 2010 12th International Conference on Thermochronology, Glasgow, Scotland. August 16-20, 2010. **Invited keynote speaker**, lead author on 2 other presentations, co-author on 3 other presentations.
- 2009 American Geophysical Union Fall Meeting, San Francisco, December 14-18, co-author on 4 papers.
- 2009 Papua New Guinea Continental Dynamics project “*How Is Rifting Exhuming the Youngest HP/UHP Rocks on Earth*” group meeting, Christian Brothers Retreat and Conference Center, Napa, California, December 12-13, co-convenor, 1 presentation
- 2009 Geological Society of America Annual Meeting, Portland, Oregon, 17-20 October, co-author on invited paper, co-author on 1 other paper
- 2009 ESF Topo-Europe Eurocores Project: Coupled climatic/tectonic forcing of European topography revealed through thermochronometry – Thermo-Europe; ESF/IGCP Summer school on modelling thermochronology data, September 20-23, 2003, Aussois, southeast France. Senior participant.
- 2009 First International Antarctic Climate Evolution Conference, Granada, Spain September 7-11, 2009, **invited keynote speaker**.
- 2008 American Geophysical Union Fall Meeting, San Francisco, December 10-14, one paper presented, co-author on 5 papers, co-convenor on scientific session.
- 2008 Geological Society of America Annual Meeting, Houston, Texas, 5-9 October, co-author on invited paper.
- 2008 11th International Conference on Thermochronometry, 15-19 September, Anchorage Alaska, Scientific Steering Committee, two papers presented, co-author on 5 other papers. On organizing committee for conference.
- 2007 American Geophysical Union Fall Meeting, San Francisco, December 10-14, one paper presented, co-author on 2 papers.
- 2007 Geological Society of America Annual Meeting, Denver, Colorado, 28-31 October, co-author on two papers.
- 2007 10th International Symposium on Antarctic Earth Sciences, Santa Barbara, California, August 27-31, 2007. Organizing Committee, 2 papers presented, co-author on one other.
- 2006 Geological Society of America Annual Meeting, Philadelphia, October 22-25, 2006. Paper presented, co-author on an invited talk.
- 2006 16th Annual V.M. Golschmidt Conference on Geochemistry, Melbourne, Australia, August 27th - September, 1, 2006. Paper presented, co-author on an invited talk.
- 2005 American Geophysical Union Fall Meeting, San Francisco, December 5-9, co-author on 2 papers.
- 2005 Geological Society of America Annual Meeting, Salt Lake City, October 16-19, 2005.. Paper presented, co-author on two other presentations
- 2004 American Geophysical Union Fall Meeting, San Francisco, December 13-17, co-author on 4 papers.
- 2004 32nd International Geological Congress, Florence Italy, August 20-28, 2004. Paper presented, co-author on another presentation.
- 2004 10th International Fission Track Conference, August 8-13, Amsterdam, The Netherlands. Two papers presented, co-author on two other presentations.
- 2004 Thermal Processes in the context of Earthscope. Salt Lake City, Utah, March 18-20, 2004. **Invited keynote speaker**.

- 2003 Geological Society of America Annual Meeting, Seattle, November 2-5, 2003. Paper presented, co-author on three other presentations.
- 2003 Ninth International Symposium on Antarctic Earth Sciences, Potsdam Germany. September 8-12, 2003. Two papers presented, one poster.
- 2002 Goldschmidt 2002 and 10th International Conference on Geochronology, Cosmochronology and Isotope Geology, Davos, Switzerland, August 18th – August 23rd. Paper presented. Fitzgerald, P.G., S. L. Baldwin, K. A. Farley, L. Hedges, P. B. O’Sullivan, L. E. Webb, 2002. Constraining landscape evolution of the West Antarctic rift flank of southern Victoria Land.
- 2001 Geological Society of America Annual Meeting, November 2001- Boston - Paper given: Fitzgerald, P.G., S. L. Baldwin, K. A. Farley, L. Hedges, P. B. O’Sullivan, L. E. Webb, 2001, Exhumation of apatite He partial retention zones: An example from the Transantarctic Mountains and implications for (U-Th)/He dating of apatites.
- 2001 Antarctic Neotectonics workshop, Ceresa di Pontignano (Siena, Italy), July 11-15th, 2001, **Invited keynote talk**: Uplift of the Transantarctic Mountains: Implications for Antarctic Neotectonics.
- 2000 American Geophysical Union Fall Meeting, San Francisco, December 14-19, 1 paper presented, co-author on 2 others.
- 2000 Penrose Conference on Geological Processes at rifted volcanic margins, Royal Holloway, University of London, March 28-29, 2000, **invited keynote speaker**.
- 2000 Fission Track 2000, 9th International Conference of Fission Track Dating and Thermochronology, 6-11 February 2000, Lorne, Victoria, Australia, 1 paper presented.
- 1999 8th International Symposium on Antarctic Earth Sciences, Wellington, New Zealand, July 5-9, **invited plenary speaker** “Nature and evolution of the Antarctic Landscape since Gondwana breakup”.
- 1999 Penrose Conference on “Mid-Cretaceous to Recent Plate Boundary Processes in the Southwest Pacific”. March 25-30, Arthurs Pass, South Island, New Zealand, invited participant.
- 1998 American Geophysical Union Fall Meeting, San Francisco, December 4-10, 1 paper presented, co-author on 2 others.
- 1998 9th Workshop of the ILP Task Force, Tectonic Geomorphology and Sedimentary Basin Dynamics, Oliana, Spain, September 26th–October 2nd 1998, 1 talk.
- 1998 International School, Certosa di Pontignano (Siena) Italy, workshop on “Geological Records of Global and Planetary Changes”, **invited lecturer** on “Cretaceous - Cenozoic paleogeography and plate tectonics of the southern hemisphere”, April 14-18, 1998.
- 1997 ANTOSTRAT (Antarctic Offshore Acoustic Stratigraphy and Seismic Project) Workshop on Antarctic Late Phanerozoic Earth System Science, July 6-13, Hobart, Tasmania, Australia.
- 1997 Antarctic Treaty Consultative Meeting, Christchurch New Zealand, May 18-30, New Zealand Delegate.
- 1997 “Antarctic Science Beyond 2000”: Workshop on future directions in Antarctic science, Christchurch New Zealand, April 16-18, Co-convenor.
- 1997 History of the Antarctic Ice Sheet Workshop, Victoria University of Wellington, April 10, **invited keynote speaker**, 2 presentations.
- 1996 American Geophysical Union Fall Meeting, San Francisco, December 14-19, 1996, 1 paper presented.

- 1996 Penrose Conference on "Exhumation processes: Normal faulting, ductile flow and erosion". October 9-13, Crete, *invited keynote speaker*, 1 invited talk, 1 poster.
- 1996 LIRA (Lithospheric Investigations in the Ross Sea Area) workshop on "Backside of the Transantarctic Mountains". Hannover, Germany, September 2-6, *invited participant*, 2 presentations.
- 1996 International Workshop on Fission-Track Dating, Gent, Belgium, August 26-30, 2 presentations (1 talk, 1 poster).
- 1995 Seventh International Symposium on Antarctic Earth Sciences, Siena, Italy, September 10-15, 1995, invited speaker, 3 presentations.
- 1995 Geological Society of America; Cordilleran Section Meeting, Fairbanks, Alaska, May 24-26, *invited speaker, special symposium honoring C. Wahrhaftig*.
- 1995 Workshop on Pliocene Antarctic Glaciation, Woods Hole Oceanographic Institute, April 19-21, 1995, *invited speaker*.
- 1994 Eighth International Conference on Geochronology, Cosmochronology and Isotope Geology, Institute of Human Origins, Berkeley California, June 5-11, 1994, poster presented.
- 1994 Workshop on the Geodynamic Evolution of the Transantarctic Mountains, and West Antarctic Rift System, Rocky Mountain National Park, Colorado, April 20-23, 1994, *invited keynote speaker*.
- 1994 Workshop on the Ellsworth Mountains, Maclaster College, March 25-27, 1994, *invited speaker*.
- 1994 Workshop on Stratigraphic Drilling in Antarctica "Cape Roberts Project". Byrd Polar Research Center, Ohio State University, March 6-7, 1994, *invited keynote speaker*.
- 1992 LIRA (Lithospheric Investigations in the Ross Sea Area) Workshop on Landscape Evolution. Haarlem, The Netherlands, September 28 - October 2, 1992, *invited keynote speaker*.
- 1992 7th International Fission Track Dating Workshop held in Philadelphia, July 13-17, 1992, 2 papers given.
- 1991 Sixth International Symposium on Antarctic Earth Sciences, Saitama, Japan, 9-13 September, 2 papers given.
- 1990 Seventh International Conference on Geochronology, Cosmochronology and Isotope Geology, Canberra, Australia, 24-29 September, paper given.
- 1990 Geological Society of America; Cordilleran Section Meeting. Tucson, Arizona, March.
- 1989 12th International Geological Congress, Washington D.C., July 9-19, 1989. *Invited speaker*.
- 1988 Sixth International Workshop on Fission Track Dating, Besancon, France, September 5-9, paper presented.
- 1987 Geological Society of America, Annual Meeting, Phoenix, Arizona, September.
- 1987 Fifth International Symposium on Antarctic Earth Sciences, Cambridge, England, August 24-30, paper presented.
- 1987 Workshop on Australian Antarctic Earth Sciences, Hobart, 11-14 May, 1987, invited speaker.
- 1986 12th International Sedimentological Congress, Canberra, Australia, 24-30 August, 1986.

- 1986 The Transantarctic Mountains, their history and formation, Seminar at Victoria University of Wellington, May 2 1986, invited speaker.
- 1985 Sixth International Gondwana Symposium, Ohio State University, August 1985, paper presented.
- 1985 Workshop on Cenozoic Geology of the Southern High Latitudes, Institute of Polar Studies, Ohio State University, August 1985, paper presented.
- 1984 Workshop on fission track analysis: Principles and applications, James Cook University, Townsville, Australia. September 1984, paper presented.

Invited Colloquium Talks

- 2011 University of Grenoble, France
- 2011 University of Milan-Bicocca, Italy
- 2011 Washington and Lee University, Lexington, Virginia.
- 2010 Colgate University, New York
- 2008 SUNY(Binghamton)
- 2007 SUNY(Albany)
- 2006 Lamont Doherty Earth Observatory of Columbia University
- 2005 Victoria University of Wellington, New Zealand
- 2005 New Zealand Institute of Geological and Nuclear Sciences, Wellington, New Zealand
- 2004 Cornell University, New York
- 2004 Union College, New York
- 2003 Vrije University, Amsterdam, The Netherlands
- 2003 Colgate University, New York
- 2002 Department of Earth Sciences, Syracuse University
- 2001 Vrije University, Amsterdam, The Netherlands
- 2001 Department of Earth Sciences, University of Rochester
- 1999 Department of Geosciences, University of Arizona.
- 1999 Department of Earth Sciences, Syracuse University
- 1996 California Institute of Technology, Pasadena, California.
- 1995 Research School of Earth Sciences, Victoria University of Wellington, New Zealand.
- 1995 Department of Geosciences, LaTrobe University, Bundoora, Victoria, Australia.
- 1994 Department of Geology, Stanford University, endowed lecture series.
- 1993 Department of Geology, California State University, Fresno.
- 1993 Department of Geosciences, University of Arizona.
- 1993 Norsk Hydro, Oslo, Norway.

- 1992 Department of Geology, University of Texas at Austin.
- 1992 Institute of Geophysics, University of Texas at Austin.
- 1991 Arizona Geological Society, Tucson, Arizona.
- 1991 Vanderbilt University, Nashville, Tennessee.
- 1990 Byrd Institute of Polar Studies, The Ohio State University, Columbus, Ohio.
- 1990 Department of Geology and Geophysics, The Ohio State University, Columbus, Ohio.
- 1989 New Mexico Institute of Mining and Technology, Socorro, New Mexico
- 1989 University of Nevada, Las Vegas, Nevada.
- 1989 Max-Planck-Institut für Kernphysik, Heidelberg, West Germany.
- 1989 The Open University, Milton Keynes, England.
- 1988 University of Melbourne.
- 1987 Arizona State University.
- 1987 University of Melbourne.
- 1985 RPI, Troy New York.

Research and Field Experience

- June 2010 NSF funded fieldwork to the eastern Alaska Range
- March 2010 NSF funded fieldwork to Woodlark Island and islands north of the D'Entrecasteaux Islands, eastern Papua New Guinea
- January 2009 NSF funded fieldwork in the Louisiades Archipelago region (including Sudest and Rossel Islands) of eastern Papua New Guinea
- June 2008 Fieldwork in central and eastern Alaska Range (KD Nelson Funds).
- January 2008 NSF funded fieldwork in the Milne Bay region (Goodenough, Ferguson and Normanby Islands) of Papua New Guinea
- June 2007 NSF funded fieldwork in the central and west-central Pyrenees
- March 2007 Fieldwork in the central Cyclades region of the Aegean (Syros and Sifnos)
- Jan 2006 NSF funded fieldwork in the Milne Bay region (Goodenough and Ferguson Islands) of Papua New Guinea
- Aug 2004 Fieldwork in the west central Pyrenees, funded by the Spanish Government (Department of Science and Technology through the University of Barcelona)
- Dec 2003 NSF funded fieldwork at Misima Island, Papua New Guinea
- Dec 2002 – Jan 03 NSF funded fieldwork in the Milne Bay region (mainly Normanby Island) of Papua New Guinea
- June 2002 Fieldwork in the central and western Pyrenees, funded by the Spanish Government (Department of Science and Technology through the University of Barcelona)
- Dec 01 – Feb 02 NSF funded expedition to the Reedy Glacier, Transantarctic Mountains, leader
- May 2001: Virgin Mountains of Nevada and White Mountains of NW Arizona
- Dec 00 - Jan 01: NSF funded expedition to the Reedy Glacier, Transantarctic Mountains, leader (fieldwork postponed in the field owing to logistics/weather problems)
- May 2000: White Mountains of NW Arizona, NSF funded
- Dec 98 – Jan 99 NSF funded expedition to the Thiel Mountains, Ohio Range, Transantarctic Mountains, leader.
- Sept - Oct 98 Southern fold and thrust belt of the Pyrenees, Ebro Basin, Spain.

- Oct, 1996 Metamorphic core complexes of the Aegean.
- Nov-Dec 95 N.S.F. funded expedition to Shackleton Glacier area, Transantarctic Mountains, leader.
- June-July 95 N.S.F. funded fieldwork in the Pyrenees, co-leader.
- June-July 94 N.S.F. funded fieldwork in New Caledonia.
- Oct 92 – Jan 93 N.S.F. funded expedition to the Heritage Range of Ellsworth Mountains, and nunataks of West Antarctica, leader.
- 1989-2000 Numerous field trips throughout Arizona and Nevada, principally in the Basin and Range and transition zone.
- Oct 91 – Jan 92 N.S.F. funded expedition to northern Victoria Land, Antarctica, leader.
- Oct – Dec 1989 N.S.F. funded expedition to the Sentinel Range of the Ellsworth Mountains, West Antarctica, including collection of a 12,000' vertical profile from the summit of the Vinson Massif to the Nimitz Glacier, co-leader.
- May – July 1989 N.S.F. funded expedition to the central Alaska Range, including collection of a 18,000' vertical profile from the summit of Mt. McKinley to the lower Kahiltna Glacier, PI and Leader
- Oct – Dec 1987 N.S.F. funded expedition to the Scott Glacier area of the Transantarctic Mountains for continued studies on the uplift history and tectonics of the mountains.
- Nov – Dec 1985 VUWAE 30. Geologist, Event and Field Leader. Collection of samples for an uplift study of the Transantarctic Mountains. Based out of the U.S. deep field camp in the Beardmore Glacier area.
- Dec 84 – Jan 85 VUWAE 29. Geologist, Event and Field Leader. Snow-mobile field party. Mapping and sampling in the New Harbour area and Blue Glacier for Ph.D. studies.
- Oct 83 – Jan 84 VUWAE 28. Geologist, Event and Field Leader. Snow-mobile field party. Mapping and sampling in Granite Harbour, Wilson Piedmont, and Ferrar Glacier areas of southern Victoria Land for Ph.D. studies. Responsible for safety and movement of personnel and vehicles on sea-ice and glaciers.
- March - May 83 University of Melbourne. Research Assistant. Fission track dating study of the uplift of southeastern Australia.
- Nov 82 - Mar 83 Amoco Minerals (NZ) Ltd. Geologist. Gold exploration involving detailed geologic mapping of volcanic rocks in the Coromandel Peninsula.
- Oct – Dec 1981 VUWAE 26. Geologist and Field Assistant. Honours research on the Feather Conglomerate. Assistant to Dr. A.J.W. Gleadow for collection of samples for fission track work in the Transantarctic Mountains. Continued work on sea-floor sediment sampling and instructing on survival course (occasional).
- Oct – Dec 1980 - Victoria University of Wellington Antarctic Expedition (VUWAE) 25. Field assistant. Collection of sea-floor sediments from McMurdo Sound through holes in the sea-ice. Description of Beacon Sandstone and collection of paleocurrent data.

Professional Affiliations (Memberships)

- Geological Society of America (Fellow, 2005)
- American Geophysical Union
- New Zealand Antarctic Society
- The Antarctic Society
- Geological Society of New Zealand
- Central New York Association of Professional Geologists
- Geochemical Society

Reviewing and editing:

- Reviewer of manuscripts for:
Antarctic Science

Basin Research

Canadian Journal of Earth Sciences

Earth and Planetary Science Letters

Geochimica et Cosmochimica Acta

Geology

Geological Society of America Bulletin

Journal of Geological Society of London

New Zealand Journal of Geology and Geophysics

Tectonics

Tectonophysics

Terra Antarctica

Ocean Drilling Project

8th International Gondwana Conference Proceedings

6th, 7th, 8th, 10th, International Antarctic Earth Science Conference Proceedings

7th, 8th International Fission Track Dating Workshop Proceedings

Reviewer of proposals for:

Australian Antarctic Division

Australian Research Council

American Chemical Society, Petroleum Research Fund

Israel Science Foundation

Programma Nazionale di Ricerche in Antartide (PNRA) - Italian Scientific Committee for Antarctic Research

National Aeronautics and Space Administration

National Science Foundation

(Polar Programs Earth Sciences, Polar Programs Glaciology, Tectonics, Continental Dynamics, Petrology and Geochemistry, International Programs, Geology and Paleontology, Instrumentation and Facilities, Major Research Instrumentation)

Natural Sciences and Engineering Research Council of Canada

The Foundation for Research Science and Technology, New Zealand

Antarctica New Zealand (New Zealand Antarctic Institute)

NERC (National Environmental Research Council, equivalent to British National Science Foundation)

Swiss National Science Foundation

Editorial work

Co-editor for " Antarctica: A keystone in a Changing World - Proceedings of the 10th ISAES, edited by A. K. Cooper and C. R. Raymond et al., USGS Open-File Report 2007-1047.

Appendix: Abstracts

Brown, R.W., R. Beucher, K. Gallagher, C. Persano, F. Stuart and P.G. Fitzgerald, 2011. Exploiting the natural dispersion of single crystal fragment (U-Th)/He age determinations using a new inverse approach to deriving thermal history information. American Geophysical Union, Fall Meet. Suppl.

Fitzgerald, P.G., S. Roeske, J.A. Benowitz, S.E. Perry, S. Riccio and C. Huff. 2011. Topographic and exhumation asymmetry of the Alaska Range relative to the Denali fault: A reflection of lithospheric heterogeneity. Geological Society of America Annual Meeting Minneapolis 9-12 October, GSA Abstracts with Programs, Vol. 43, No. 5, Presentation 230-4.

- Benowitz, J.A., P.A. Armstrong, P.G. Fitzgerald, P.J. Haeussler, P.W. Layer, P. O'Sullivan, S.E. Perry, S. Riccio, S.M. Roeske, 2011. The topographically asymmetrical Alaska Range: Multiple drivers through space and time. Geological Society of America Annual Meeting Minneapolis 9-12 October, GSA Abstracts with Programs, Vol. 43, No. 5, Presentation 230-5.
- Roeske, S.M., J.A. Benowitz, C. Huff, S. Riccio, P.G. Fitzgerald, S.E. Perry, and P.W. Layer, 2011. Variable strain partitioning with depth along the dextral Denali fault in the eastern Alaska Range. Geological Society of America Annual Meeting Minneapolis 9-12 October, GSA Abstracts with Programs, Vol. 43, No. 5, Presentation 128-9.
- Baldwin, S.L., P.G. Fitzgerald and L.E. Webb, 2011. Subduction, obduction and slab graveyards in the New Guinea region. Geological Society of America Annual Meeting Minneapolis 9-12 October, Abstracts with Programs, Vol. , No. , p.
- Riccio, S., P.G. Fitzgerald, J.A. Benowitz and S. Roeske. 2011. Apatite (U-Th)/He dating of the Sustina Glacier thrust fault region, eastern Alaska Range, AK. Geological Society of America Annual Meeting Minneapolis 9-12 October, Abstracts with Programs, Vol. 43, No. 5, Presentation 177-3.
- Fitzgerald, P.G., S.L. Baldwin, S.R. Miller, T.A. Little, L.E. Webb, J.R. Metcalf and S.E. Perry, 2011. Apatite fission track and (U-Th)/He dating in the world's youngest UHP terrane: the Woodlark rift of southeastern Papuan New Guinea. Goldschmidt2011, Prague, Czech Republic, August 14-19.
- Catalano, J.P., S.L. Baldwin, P.G. Fitzgerald and L.E. Webb, 2011. The extent of eclogite in the Woodlark Rift, Papua New Guinea: Insight from xenoliths in the Woodlark Rise. 9th International *Eclogite Conference*, Mariánské Lázně, Czech Republic, August 6-9th.
- Baldwin, S.L., N.A. Zirkparvar, L.E. Webb, J. Kula, J.R. Metcalf, P.G. Fitzgerald, J.P. Catalano, 2011. The isotopic record of subduction and exhumation within the U(HP) terrane of Papua New Guinea. 9th International *Eclogite Conference*, Mariánské Lázně, Czech Republic, August 6-9th.
- Redfield, T.F., D. Scholl and P.G. Fitzgerald, 2010. 'Extra-regional' strike-slip fault systems in Chile and Alaska: The North Pacific Rim orogenic stream versus Becks Buttress. American Geophysical Union, Fall Meet. Suppl.
- *Zirkparvar, N.A., S.L. Baldwin, P.G. Fitzgerald and J.D. Vervoort, 2010. Piecing Together the Scattered Eastern Australian Margin in Gondwana: Origin of Rocks in the Woodlark Basin, Southeastern Papua New Guinea. American Geophysical Union, Fall Meet. Suppl.
- S.L. Baldwin, N.A. Zirkparvar, J.P. Catalano, P.G. Fitzgerald, L.E. Webb, T.A. Little, 2010. Reconstructing the Mid-Miocene to Recent evolution of the Woodlark Rift. American Geophysical Union, Fall Meet. Suppl.
- Little, T.A., B.R. Hacker, S.M. Gordon, S.L. Baldwin and P.G. Fitzgerald, 2010. Partial melting a key agent in exhumation of the world's youngest eclogite-facies (and UHP) rocks in the D'Entrecasteaux Islands, Papua New Guinea. American Geophysical Union, Fall Meet. Suppl.
- *Catalano, J.P., S.L. Baldwin and P.G. Fitzgerald, 2010. Temporal and geochemical constraints on young volcanism in southeastern Papua New Guinea. American Geophysical Union, Fall Meet. Suppl.
- *Huff, C.J., S. Roeske, J. Benowitz, P.G. Fitzgerald, P.W. Layer, S.E. Perry, S.J. Riccio, 2010. Investigating localized exhumation of rocks on the north side of the Denali fault within the eastern Alaska Range. American Geophysical Union, Fall Meet. Suppl.
- Fitzgerald, P.G., J.R. Metcalf, S.L. Baldwin, J.A. Muñoz, 2010. Thermal and exhumation histories of the footwall and hanging wall of the Gavarnie thrust, West-Central Pyrenees: Implications for thrusting. Abstract T51A-2015 presented at 2010 Fall Meeting, AGU, San Francisco, Calif., 13-17 December, 2010.

- Roeske, S.M., M.A. Jadamec, J.A. Benowitz, M.I. Billen, P.G. Fitzgerald, P.W. Layer, S.E. Perry, 2010. The role of the Denali fault in localizing exhumation in the Alaska Range. Geological Society of America Abstracts with Programs, Vol. 42, No. 5, p. 79.
- Baldwin, S.L., L.E. Webb, P.G. Fitzgerald, N.A. Zirkparvar and J.P. Catalano, 2010. From subduction to rifting: The late Cretaceous-Cenozoic tectonic evolution of eastern Papua New Guinea. Geological Society of America International meeting; Tectonic Crossroads: Evolving Orogens of Eurasia-Africa-Arabia, Ankara, Turkey October 4-8, 2010. Invited talk.
- Scholl, D., T.F. Redfield and P.G. Fitzgerald, 2010. Analogous to Anatolia, collisional and non-collisional plate boundary forces extrude western Alaska toward offshore subduction zones. Geological Society of America International meeting; Tectonic Crossroads: Evolving Orogens of Eurasia-Africa-Arabia, Ankara, Turkey October 4-8, 2010. Invited talk.
- Fitzgerald, P.G., 2010. Low-temperature thermochronology applied to tectonics: the vertical profile approach. Keynote. Abstract, 12th International Conference on Thermochronology, 16th - 20th August 2010, Glasgow, Scotland.
- Metcalf, J.R., P.G. Fitzgerald, S.L. Baldwin, J.A. Muñoz, S.E. Perry (2010), Along-strike variation in the exhumation of the Pyrenean orogen; insights from the Orri thrust sheet in the footwall of the Gavarnie thrust, south-central Pyrenees. Abstract, 12th International Conference on Thermochronology, 16th - 20th August 2010, Glasgow, Scotland.
- Fitzgerald, P.G., J.A. Muñoz, E. Beamud, S.L. Baldwin and J.R. Metcalf (2010), Detrital apatite fission track thermochronology: Application to the syn-tectonic conglomerates of the south-central Pyrenees and exhumation of the central Pyrenean orogen. Abstract, 12th International Conference on Thermochronology, 16th - 20th August 2010, Glasgow, Scotland.
- Baldwin, S.L., N.A. Zirkparvar, L.E. Webb, P.G. Fitzgerald, S.M. Gordon, B.R. Hacker and T.A. Little, (2010). Into the mantle and back again: Rates and timescales of subduction metamorphism and exhumation. Abstract, 12th International Conference on Thermochronology, 16th - 20th August 2010, Glasgow, Scotland
- *Perry, S.E., P.G. Fitzgerald and J.A. Benowitz, 2010. Thermotectonic evolution of the eastern Alaska Range: constraints from low-temperature thermochronology, Abstract, 12th International Conference on Thermochronology, 16th - 20th August 2010, Glasgow, Scotland.
- Fitzgerald, P.G., J.R. Metcalf, S.L. Baldwin, J.A. Muñoz, 2010. Exhumation of the Neouvielle massif in the hanging wall of the Garvarnie thrust, west-central Pyrenees: thermochronologic constraints and comparisons with footwall exhumation. Abstract, 12th International Conference on Thermochronology, 16th - 20th August 2010, Glasgow, Scotland.
- Webb, L.E., S.L. Baldwin, N.A. Zirkparvar, P.G. Fitzgerald, and J.P. Catalano, 2010. From microstructures to microplates: Integrating across scales to constrain the plate boundary evolution in eastern Papua New Guinea. American Geophysical Union, Western Pacific Meeting, Taiwan, July 2010.
- Webb, L.E., S.L. Baldwin, P.G. Fitzgerald, L. Castellani and N.A. Zirkparvar, 2009. Structural Analysis of the Louisiade Archipelago, Southeastern Papua New Guinea, EOS, Transactions of the American Geophysical Union, 90(52), Fall Meet. Suppl., Abstract T31C-1835.
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