

## **David A. Foster, Professor**

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Department of Geological Sciences  
PO Box 112120  
University of Florida  
Gainesville, Florida 32611 USA  
Phone 1-352-359-1635  
Email [dafoster@ufl.edu](mailto:dafoster@ufl.edu)

### **APPOINTMENTS**

*Professor*, Department of Geological Sciences, University of Florida, 2005-present  
*Chair*, Department of Geological Sciences, University of Florida, 2013-2022  
*Associate Chair*, Department of Geological Sciences, University of Florida, 2007-2013  
*Visiting Professor*, Department of Applied Physics, Curtin University of Technology, 2009  
*Associate Professor*, Department of Geological Sciences, University of Florida, 2000-2005  
*Honorary Senior Fellow*, School of Earth Sciences, University of Melbourne, 2000-2004  
*Assistant Professor*, Department of Geology, University of Florida, 1998-2000  
*Honorary Senior Fellow*, Department of Earth Sciences, La Trobe University, 1999-2000  
*Senior Research Fellow*, Department of Earth Sciences, La Trobe University, 1995-1998  
*Research Fellow*, School of Earth Sciences, La Trobe University, 1991-1995  
*Visiting Fellow*, Research School of Earth Sciences, Australian National University, 1993  
*Postdoctoral Research Fellow*, Department of Geology, La Trobe University, 1990-1991

### **PROFESSIONAL PREPARATION**

Ph.D. 1989            University at Albany, State University of New York  
M.S. 1986            University of Montana, Missoula  
B.A. 1984            State University of New York, Potsdam

### **AWARDS**

Fellow of the Geological Society of America  
F.L. Stillwell Award, Geological Society of Australia (1997 and 2004)  
Colonel Allan R. and Margaret G. Crow Term Professor  
Exemplary Advisor and Mentor, NSF SE Alliance for Graduate Education and the Professoriate  
University of Florida Research Foundation Professor  
La Trobe University Research Fellowship  
Jessie J. McNall Science Award

### **PROFESSIONAL SOCIETY MEMBERSHIPS**

American Geophysical Union, Geological Society of America, Geological Society of Australia, Geochemical Society

### **COMMITTEES AND ADMINISTRATION**

-Finance Committee, College of Liberal Arts and Sciences, Member 2009-2012, Chair 2010-2011, Member 2023-current  
-University of Florida Faculty Senate 2020-2023  
-Executive Committee, Department of Geological Sciences, 2007-2013, 2022-current  
-UF Geological Sciences External Advisory Board 2010-current

- Geological Society of America, Structural Geology and Tectonics Division Career Contributions Award Committee, Member 2019–2023, Chair 2021, 2023
- NASA Mission Science Panel Member
- UF Marine Science Committee, 2016-2022
- National Science Foundation, Division of Earth Sciences, Panel Member (multiple years)
- U Florida Research Foundation Grant Review Panel Member 2008, 2019-2022
- UF Astrophysics Steering Committee, 2015-2017
- Thermo2014 Awards Committee, International ThermoChronology Community
- Task Force on the Future of the College of Liberal Arts and Sciences, 2012-2013
- Editor *Geosciences*, 2012-2013
- EarthScope Continental Deformation Thematic Working Group, 2008-2018
- Chair, Merit Review Committee, Geological Sciences, 2006 - 2012
- Research Advisory Committee, College of Liberal Arts and Sciences, 2005–2010
- Associate Editor, *Geological Society of America Bulletin*, 1999 – 2010
- Associate Editor, *Geology*, 2005 - 2009
- Chair, Graduate Studies Planning Committee, Geological Sciences, 2005-2007
- Department Review Committee, University of Florida, 2005-2006
- Convener, EarthScope in the Northern Rockies Workshop, 2005
- Graduate Studies Committee, University of Florida, 1998-2004
- Science Advisor to the Editor, Plenum Publishers, 1999-2002
- Organizing Committee for the International Conference on ThermoChronology, 1997-2000
- Field Trip Coordinator, Geological Society of Australia, 1996
- Quality Review Team - Research and Community Service, La Trobe University, 1995
- International Committee for Fission-Track Dating Standards, IUGC, 1993-1996

**RESEARCH INTERESTS**

- Tectonic evolution of continents: orogeny, continental extension, supercontinent cycles
- $^{40}\text{Ar}/^{39}\text{Ar}$  and U-Th-Pb geochronology and thermoChronology
- Regional tectonics and geology of North America, Australia, Africa, Gondwana, and Oceania
- Volcanic soil amendments, enhanced weathering of basalt, and CO<sub>2</sub> sequestration

**FUNDING**

- Ductile Strain in the Footwall of a Metamorphic Core Complex: A Field Example to Test Models for Dynamics, Timescales, and Controls of Mid-Crustal Flow, 2017-2022  
National Science Foundation (Tectonics) (Senior Personnel)  
EAR1728227 \$110,633
- Rates, Timing, and Nature of Sub-Orbital Sea-level Change, 2016-2021  
National Science Foundation OCE1559040 (first PI A. Dutton) \$503,905
- Knauss Fellowship for Alexandra Skrivanek, 2020-2021  
US Department of Commerce Sea Grant Program \$69,000
- Acquisition of a MC-ICP-MS for Research and Education in U-series Geochemistry and Applications in Geosciences, 2017-2019  
National Science Foundation EAR1660318 \$693,780
- Collaborative Development of High Spatial Resolution Trace Element Applications for Earth Systems and Materials Science, 2017-2019

UF Research Foundation Opportunity Fund	\$98,479
-GEMS: GEophysical Monitoring Station for InSight Mission, 2013-2018	
CAL Tech – Jet Propulsion Laboratory	\$208,681
-MRI: Acquisition of a High-Resolution Electron Probe Micro-Analyzer, 2014-2017	
National Science Foundation (MRI) DMR1429265	\$905,540
-Tectonic-Stratigraphic Characterization of Sedimentary Basins in the Columbian Pacific Margin; Columbian National Petroleum Agency/Univ. of Caldas, 2013-2017	\$167,933
-Geodynamics and Continental Extension in the East African Rift System: Origin and Evolution of the Turkana Depression in Northern Kenya (collaborative with A. Gleadow and B. Kohn); 2013-2016 Australian Research Council	\$420,000
-Precambrian Crustal Evolution in Western Laurentia: Implications from the Sawtooth Metamorphic Complex 2012-2016, National Science Foundation (Tectonics) EAR1145212	\$496,640 (\$288,182 UF)
-Geochemical Imaging of Post-Pangean Lithospheric Structure in the Southern Appalachians 2011-2016, National Science Foundation (Tectonics) EAR06030000	\$412,392 (\$271,128 UF)
-Integrated Optical Emission and Isotope Ratio Measurements During Laser Ablation 2010-2013 Research Opportunity Fund, University of Florida Research Foundation	\$85,066
-Collaborative Research: REU Site Project--Evolution of Precambrian Rocks in Yellowstone National Park 2009-2012 National Science Foundation (Education and Human Resources) EAR0851752	\$76,640
-Mid-Crustal Strain During Extension: A Field-based Investigation of Rheological Transitions, Doming, and Vertical Coupling 2009-2013 National Science Foundation (Tectonics), EAR0838476	\$144,518
-Significance of the Damara Orogen in Gondwana Assembly: an Evaluation of Detrital Zircon Ages and Isotopic Compositions of Neoproterozoic Metasedimentary Rocks 2008-2012 National Science Foundation (Tectonics), EAR0738874	\$291,024
-Development of a 4-D Model of Crustal Evolution in the Northern Rocky Mountains 2006-2011 National Science Foundation (EarthScope), EAR0545715	\$216,480
- <sup>40</sup> Ar/ <sup>39</sup> Ar Geochronology for EarthScope 2007-2010 UNAVCO for National Science Foundation (EarthScope)	\$40,000
-International Partnership in Neotropical Paleobiology and Biodiversity – Once-in-a-Century Opportunity along the Panama Canal 2007-2008 University of Florida Research Foundation	\$78,950
-Evolution of the SW Laurentian Margin: Implications for Proterozoic Crustal Growth and Geodynamics 2006-2010 National Science Foundation (Tectonics), EAR0538133	\$230,000
-Tectono-Thermal Evolution and Exhumation in Transpressional Orogens: the Deep Crust of the Damara Orogen, Namibia; 2005-2007 National Science Foundation (Tectonics), EAR0440188	\$228,779
-Relationship of Lithospheric Age and Composition to Mineral Resources Within, Beneath, and Adjacent to the Belt Basin; 2005-2006 United States Geological Survey	\$29,500
-Development of a Laser Ablation Isotope Ratio Capability for Interdisciplinary Research; 2005-2006 University Florida Research Foundation	\$55,000
-Collaborative Research: Workshop for Integrated EarthScope Research and Education in the	

Northern Rocky Mountains; 2004-2006	
National Science Foundation (EarthScope), EAR0346182	\$22,250
-Technical Support for a New ICP-MS Laboratory for Earth and Ocean Science Research at the University of Florida; 2004-2009 National Science Foundation, EAR0418905	\$217,901
-Origin and Evolution of the Great Falls Tectonic Zone: Implications for the Assembly of Southern Laurentia and Rodinian Connections; 2001-2005	
National Science Foundation (Tectonics), EAR0106592	\$192,000
-Turbidite-dominated orogens: Geometrical constraints, geochronology and metamorphism of the coastal branch of the Damara Orogen, Namibia and implications for the Tasman Orogen, eastern Australia (with D.R. Gray); 2001-2003	
Australian Research Council	\$225,000
-Amalgamation and Accretion of the Lachlan Orogen, Australia; 2000-2003	
National Science Foundation (Tectonics), EAR0073638	\$169,800
-Acquisition of a Noble Gas Mass Spectrometer for Geochronology and Thermochronology at the University of Florida; 2000-2004	
National Science Foundation (IF), EAR0080086	\$280,000
-Acquisition of a Noble Gas Mass Spectrometer for Geochronology and Thermochronology at the University of Florida; 2000-2004	
University of Florida Research Foundation and CLAS	\$295,000
-Tectonic evolution across the north-east margin of the Tibetan Plateau; 2000-2002	
Australian Research Council (A10020302)	\$105,000
-Low-temperature thermochronology: applications to morphotectonics and dynamics of continental extension; 2000-2002	
Australian Research Council (A10020308)	\$403,535
-Subduction-related deformation and metamorphism of turbidite sequences: structural, geochronological and metamorphic constraints on tectonic evolution of the Otago Schist, New Zealand; 1999-2001 Australian Research Council	\$136,500
-Thermochronology of Highly Extended Terrains; 1998-2000	
Australian Research Council	\$246,000
-Thermochronological Evolution of Australian Basement Terrains (with A. Gleadow and B.P. Kohn); 1995-2000, Australian Geodynamics Cooperative Research Centre	\$358,000
-VIC-GOLD; 1996-1999	
Australian Geodynamics Cooperative Research Centre	\$346,000
-Timing of deformation in the Delamerian Fold Belt, SA: Is it synchronous or diachronous (with R. Offler & D.R. Gray); 1997, Australian Research Council	\$5,000
-Structure and tectonics of the central Adelaide Fold Belt, South Australia (with D.R. Gray & R. Offler); 1997, Australian Research Council	\$9,000
-Fission track thermochronology of narrow rift flanks (with A.J.W. Gleadow); 1999	
Australian Research Council	\$10,000
- <sup>40</sup> Ar- <sup>39</sup> Ar Thermochronology - Applications to Extensional Tectonics; 1995-1997 Australian Research Council	\$165,000
-Continental Fission Track Imaging (with B.P. Kohn & A.J.W. Gleadow), 1996-1997,	
Australian Geodynamics Cooperative Research Centre	\$120,000
-Fission-Track Thermochronology of Continental Extension (with A.J.W. Gleadow); 1993-1995.	
Australian Research Council	\$247,000
-Continental Fission Track Imaging (with B.P. Kohn & A.J.W. Gleadow); 1993-1996	

Australian Geodynamics Cooperative Research Centre	\$345,000
- <sup>40</sup> Ar- <sup>39</sup> Ar Thermochronology - Applications to Extensional Tectonics; (with A.J.W. Gleadow & G.S. Lister); 1992-1994; Australian Research Council	\$172,000
-Basement Tectonics of the Sepik-Ramu Basins, northern Papua New Guinea; 1992-1993	
Mobil New Exploration Company	\$60,000
-Geochemical and Isotopic Analysis of Volcanic Rocks Related to the Kenya Rift 1992-1993	
La Trobe University	\$13,500
-The Thermochronology of Crustal Extension Tectonics 1991-1993	
La Trobe University Fellowship	\$110,000

#### **TEACHING EXPERIENCE AND COURSE DEVELOPMENT**

Developed the first fully on-line BA degree in Geology in the U.S.A. (currently rated #1 online Geology degree in USA)

Geology of American National Parks

Physical Geology

Exploring Earth Science

Tectonics and Earth Structure

Geological Evolution of North America

Geochronology and Isotope Geology

Tectonic Geomorphology

Thermochronology

#### **GRADUATE AND POST-DOCTORAL RESEARCH SUPERVISED OR CO-SUPERVISED**

##### **Post-Doctoral and Research Fellow Supervision**

Sylvie Costa (1996)

Catherine Spaggiari (2002-2003)

Michael Hartley (2001-2004)

James Vogl (2001-2006)

Sergio Restrepo-Moreno (2010-2015)

Ruben Diez Fernandez (2011-2013)

Antonios Marsellos (2010–2015)

##### **Graduate Student Primary Supervisor/Committee Chair**

###### Ph.D.

Melinda M. Mitchell, (Ph.D. 1997; Victoria Historical Society) *The Provenance and Thermal History of the Western Otway Basin and Thermotectonics of the Flinders Ranges, South Australia*

Wayne P. Noble, (Ph.D. 1998; software engineer) *The Thermochronology of Crustal Extension Tectonics in East Africa*

Richard A. Spikings, (Ph.D. 1998; Professor, University of Geneva) *The Fission Track and <sup>40</sup>Ar-<sup>39</sup>Ar Thermochronology and Tectonics of the Mt Isa Inlier, Murphy and Georgetown Inliers, Northeastern Australia*

Martin Bucher, (Ph.D. 1998; Swiss Army Research) *Timing of Deformation, Plutonism and Cooling in the Western Lachlan Fold Belt, Southeastern Australia*

Peter V. Crowhurst, (Ph.D. 1999; exploration consultant) *Tectonics of the New Guinea Mobile Belt and Sepik Basin*

- Michael Hartley, (Ph.D. 2000; Exploration Scientist, De Beers Group) *Examination of Field and Geochronological Evidence for the Significance of the 500 Ma Delamerian Orogeny in Australia*
- Catherine Spaggiari, (Ph.D. 2002; Geological Survey of Western Australia) *Structural, Metamorphic, and Tectonic Evolution of Cambrian Ophiolites, Lachlan Orogen, Southeastern Australia*
- Tim Carter (Ph.D. 2003) *(U-Th)/He Thermochronology of Extension in the Basin and Range Province*
- Sergio Restrepo-Moreno (Ph.D. 2009; Professor, University National, Colombia) *Prehistoric vs. Modern Erosion Rates in Columbian Andes: Human Impact and Implications for Landscape Evolution and Conservation.*
- Misty Stroud (Ph.D. ABD; Dean, Morgan Community College) *Significance of 2.4-2.0 Ga Continental Crust in SW Laurentia*
- Jennifer N. Gifford (Ph.D. 2013; Associate Professor, University of Mississippi) *Precambrian Crustal Evolution in the Great Falls Tectonic Zone.*
- Chong Ma (Ph.D. 2015; Research Associate, Laurentian University) *Structure, Depositional age, and Magmatism in the Sawtooth Metamorphic Complex, Idaho: Implications for Cordilleran Tectonics*
- Ryan Wilhemi (Ph.D. 2020; Adjunct Instructor, University of Florida) *Paleoproterozoic Crustal Evolution of the Western Wyoming craton*
- Angel Barbosa (Ph.D. 2020; University of Caldas) *Magmatism and Tectonics of the western Cordillera, Colombia: Relationship to Closing of the Isthmus of Panama*
- Peng Jaing (Ph.D. 2022; Research Scientist, University of Hawaii) *In-situ Chemical and Isotopic Analyses of Major and Accessory Mineral Phases: Method Developments and Applications to the Damara Orogen and the East Pacific Rise*
- Carolina Ortiz Guerrero (Ph.D. 2022; Nature Communications) *Research and Outreach in Idaho's Geology: Timescales and Conditions for Decoupled Crustal Flow in the Pioneer Mountains Core Complex, and Impacts of Google-Earth Electronic Field Trips in K-12 Environments*
- Megan Borel (Ph.D. 2023; NASA Science Communications) *Extension, Tectonism and 3D Development of the Pioneer Metamorphic Core Complex, Idaho*
- Danielo Cruz (Ph.D. in progress, expected 2025) *Mafic Igneous Provinces in the Brazilian Shield, Grand Canyon, and Canary Islands*
- Hee Jun Cheong (Ph.D. in progress, expected 2024) *Applications of High Precision  $^{40}\text{Ar}/^{39}\text{Ar}$  Geochronology and Volatile Modelling to Extinction Events and Tectonics*

#### Masters

- Julia Murphy (Masters 2000) *Geochronology of Late Synkinematic Plutons in the Sevier Fold-Thrust belt, Montana*
- Sam Coyner (Masters 2003) *Geochronology and Isotopic Systematics of the Bitterroot Mylonite, Montana/Idaho*
- Warren Grice (Masters 2006) *Style and Timing of Mylonitization, Detachment, Ductile Attenuation and Metamorphism in the Anaconda Metamorphic Core Complex, West-Central Montana*
- Virginia Newman (Masters 2008) *Exhumation of the Ruby Mountains metamorphic core complex*

Jennifer N. Gifford (Masters 2008) *Quantifying Eocene and Miocene Extension in the Sevier Hinterland, NE Nevada*

Brittney Newstead (Masters 2010) *Detrital Zircon and Isotope Analysis of Metasedimentary Rocks from the Damara Orogen*

Alberto Carmenate (Masters 2012) *(U-Th)/He Thermochronology of South-Central Idaho: An Investigation of Interactions Between Uplift, Extension, and Hotspot Processes*

Diego Ramirez (Masters 2013) *Detrital Geochronology and Neogene Tectonic Setting of the Panama Arc*

Qianying Lin (Masters 2015) *Alleghanian granites in the Southern Appalachian Orogen*

Alina L. Bricker (Masters 2016) *Apatite (U-Th)/He Thermochronology of the Yellowstone Crescent High Terrane: Implications for Miocene to Recent Topographic Impacts Associated with the Yellowstone Hot Spot.*

Michael Kedenburg (Masters 2016) *Thermochronological Constraints on Cenozoic Uplift and Exhumation of the Azuero Peninsula, Panama: Implications for South Central American Stratigraphy and Tectonics*

Jason Titus (Masters 2020) *Terrane Accretion in the Brooks Range, Alaska*

Meridith Miska (Masters 2023) *Tracing Archean-Proterozoic Crustal Evolution in Northern Michigan Using U-Pb Age and Hf Isotopic Compositions of Detrital Zircons*

Laura Mulrooney (Masters 2023) *Magmatism and Tectonics in the Eocene Pioneer Metamorphic Core Complex*

## **Graduate Student Committee Member**

### Ph.D.

John Chadwick (Ph.D. 2002); George Kamenov (Ph.D. 2004); Victoria Mejia (Ph.D. 2005); Kusali Gamage (Ph.D. 2005); Alejandro Gilagro (Ph.D. 2010); Vimal Prahdan (Ph.D. 2011); Edwin Cadena (Ph.D. 2012); Alexander Hastings (Ph.D. 2012); Nichelle Baxter (Ph.D. 2012); Tania Villasenor Jorquera (Ph.D. 2015); William Severa (Ph.D. 2015); Christian Stanciu (Ph.D. 2015); Sutatcha Hongresawat (Ph.D. 2015); Megan Torpey (Ph.D. 2016); Paul Bremner (Ph.D. 2016); Aldo Fernando Rincon Burbana (Ph.D. 2016); Michelle Penkrot (Ph.D. 2018); Anthony Pivarunas (Ph.D. 2019); Yitan Wang (Ph.D. 2022); Cynthia Hotuhec-Kanter (Ph.D. in progress); Brian Kelly (Ph.D. in progress); McKenna Holiday (Ph.D. in progress); Marie Thomas (Ph.D. in progress); Ayuni Mohamaad (Ph.D. in progress)

### Masters

Amy Kemerer (Masters 2001); Sharon Perez-Suarez (Masters 2001); Holly Simpson (Masters 2001); Alisa Haase (Masters 2001); Scott Kutza (Masters 2002); Susan Kulp (Masters 2003); Michelle Hays (Masters 2004); Jillian Saray Hinds (Masters 2005); Laurie Cotsonika (Masters 2006); Kelly Probst (Masters 2007); Joshua Richards (Masters 2007); Shawn Malone (Masters 2007); Laura Gregory (Masters 2008); Rachel Wendt (Masters 2008); Robert Sarianni (Masters 2010); Annette Farah (Masters 2010); Aldo Fernando Rincon Burbana (Masters 2011); Mercedes Belica (Masters 2012); Katrina Garman (Masters 2012); Dylan Loss (Masters 2013); Wenyuan Zhang (Masters 2014); Iliya Smithka (Masters 2015); Douglas Sagel (Masters 2016); Emily Rodriguez (Masters 2017); Kendall Salanis (Masters 2017); Sara Mills (Masters 2017); Karastin Katusin (Masters 2017); Krista McGillivray (Masters 2019)

## **Ph.D. Thesis Examiner**

- Corine Davids (1999, Australian National University) *A Thermochronological Study of Southern Fiordland, New Zealand*
- Mativz Lorenkac (2003, The University of Melbourne) *Low Temperature Thermochronology of the Canadian and Fennoscandian Shields: Integration of Apatite Fission Track and (U-Th)/H Methods*
- Christian Seiler (2009, The University of Melbourne) *Structural and Thermal Evolution of the Gulf Extensional Province in Baja California, Mexico: Implications for Neogene Rifting and Opening of the Gulf of California*
- Melanie Sophia Lee (2016, The University of Queensland) *Thermochronology and Stratigraphy of the Thompson Orogen north-eastern Queensland*
- Song Lu (2016, The University of Melbourne) *The Thermotectonic Evolution of the Southwest Yilgarn Craton, Western Australia*
- Juergen Oestele (Ph.D. 2019, University of Wellington) *The Thermo-tectonic Evolution of the Suckling-Dayman Metamorphic Core Complex, Southeastern Papua New Guinea*
- Derek Hoy (2020, The University of Queensland) *The Hunter-Bowen Orogeny in eastern Australia*

## PUBLICATIONS

### Published data sets, field guides, maps, government records, and general science articles

1. Hyndman, D.W., and D.A. Foster, 1988, The northern Idaho batholith and its associated high-grade metamorphic rocks, in S.E. Lewis, and R.B. Berg, eds., Precambrian and Mesozoic plate margins: Montana, Idaho and Wyoming, *Montana Bureau of Mines and Geology, Special Publication 96*, p. 97-102.
2. Hyndman, D.W., and D.A. Foster, 1988, Field guide to a section through the northern Idaho batholith and surrounding high-grade metamorphic rocks, in S.E. Lewis, and R.B. Berg, eds., Precambrian and Mesozoic plate margins: Montana, Idaho and Wyoming, *Montana Bureau of Mines and Geology, Special Publication 96*, p. 159-164.
3. Hyndman, D.W., and D.A. Foster, 1989, Plutonism at deep crustal levels: The Idaho batholith, Montana and Idaho, in D.W. Hyndman, ed., Cordilleran volcanism, plutonism, and magma generation at various crustal levels, Montana and Idaho, *28th International Geologic Congress Field Trip Guide T337: American Geophysical Union, Washington, D.C.*, p. 1-15.
4. Noble, W.P., Foster, D.A., and Gleadow, A.J.W., 1994, The post Pan African tectonothermal development of the Mozambique Belt in Eastern Tanzania, IGCP 348, Field conference in the high -grade metamorphic terranes in East Africa: Arusha, Tanzania, August 22-27.
5. Foster, D.A., D.R. Gray, and R. Offler, 1996, The Western Subprovince of the Lachlan Fold Belt: Structural Style, Geochronology, Metamorphism, and Tectonics: *Specialist Group in Geochemistry, Mineralogy, and Petrology Field Guide No. 1*, Geological Society of Australia, 89 pp.
6. Crowhurst, P.V., K.C. Hill, and D.A. Foster, 1997, The structural and tectonic development of the Frieda River mineral district, NW Papua, New Guinea: in Hancock, G. (ed.), *Proceedings of the PNG Geology, Exploration and Mining Conference 1997*, Madang, Australian Institute of Mining and Metallurgy, Melbourne, p. 51-60.



7. Barton, T.J., D.R. Gray, A.J. Owen, R.J. Korsch, B.J. Drummond, and D.A. Foster, 1998, Crustal structure in the western Lachlan Orogen, based on a seismic transect to the north of the Grampians, Victoria: *Australian Geological Survey Organisation Record*, 1998/2, p. 1-5.
8. Gray, D.R., and D.A. Foster, 1998, The western Lachlan Fold Belt: an example of a propagating “oceanic” thrust-system in a Late Ordovician-Early Devonian accretionary wedge: *Australian Geological Survey Organisation Record*, 1998/2, p. 85-87.
9. Hartley, M.J., D.A. Foster, D.R. Gray, B.P. Kohn, 1998,  $^{40}\text{Ar}$ - $^{39}\text{Ar}$  and apatite fission track thermochronology of the Broken Hill Inlier: implications for the Mesoproterozoic to Recent tectonics: *Australian Geological Survey Organisation Record*, 1998/25, 46-49.
10. Spaggiari, C.V., D.R. Gray, and D.A. Foster, 1998, Intermediate P metamorphism in Cambrian oceanic sequences, western Lachlan Fold Belt and implications for tectonics: *Australian Geological Survey Organisation Record*, 1998/2, p. 166-167.
11. Wilson, C.J.L., D.R. Gray, D.A. Foster, V.J. Morand, P.M. Schaubs, and C. Spaggiari, 1999, The great southern transect I: an overview of the geology of the eastern, central, and western sub-provinces of the Lachlan Fold Belt; Mallacoota to Halls Gap, Victoria: *Specialist Group in Tectonics and Structural Geology Field Guide No. 5*, Geological Society of Australia, 123 pp.
12. Foster, D.A., and D.R. Gray, 2000, Field Guide to the Geology and Thermochronology of the Western Lachlan Orogen (Fold Belt): Geological Society of Australia, Sydney, pp. 57.
13. Glen, R.A., P.G. Lennox, D.A. Foster, 1999,  $^{40}\text{Ar}$ - $^{39}\text{Ar}$  dating of deformations west of the Hill End Trough Lachlan Orogen New South Wales: *Quarterly Notes Geological Survey of New South Wales*, 110, 13-22.
14. Foster, D.A., 2000, Tectonic evolution of the Eocene Bitterroot metamorphic core complex, Montana and Idaho: *In Roberts, S. and Winston, D., Geologic field trips, western Montana and adjacent areas*: Rocky Mountain Section of the Geological Society of America, University of Montana, Missoula, p. 1-29.
15. Kalakay, T.J., B.E. John, and D.A. Foster, 2000, Dynamics of syn-compressional magmatism in Sevier fold-and-thrust belt of southwest Montana: *In Roberts, S. and Winston, D., Geologic field trips, western Montana and adjacent areas*: Rocky Mountain Section of the Geological Society of America, University of Montana, Missoula, p. 157-177.
16. Coyner, S.J., D.A. Foster, and C.M. Fanning, 2001, Emplacement chronology of the Paradise Pluton: Implications for the development of the Bitterroot metamorphic core complex, Montana/Idaho: *Northwest Geology*, v. 30, p. 10-20.
17. Gray, D.R., and D.A. Foster, 2004, Tasman orogenic belt, eastern Australia: an example of Paleozoic tectonic accretion - an essay. *In B.A. van der Pluijm and S. Marshak, Earth Structure: an Introduction to Structural Geology and Tectonics second edition*: W.W. Norton and Company, New York, p. 547-555.
18. Vogl, J.J., D.A. Foster, P.A. Mueller, J.L. Wooden, and D.W. Mogk, 2004, Lithology and age of pre-Belt Precambrian basement in the Little Belt Mountains, Montana: implications for the role of the Great Falls tectonic zone in the Paleoproterozoic assembly of North America: *Northwest Geology*, v. 33, p. 15-34.
19. Zeig, G.A., D.L. Feedback, J.J. Vogl, D.A. Foster, P.A. Mueller, and D.W. Mogk, 2004, A field tour through the Proterozoic rocks of the southern Little Belt Mountains: *Northwest Geology*, v. 33, p. 100-110.
20. Foster, D.A., T.J. Kalakay, P.A. Mueller, and A. Heatherington, 2007, Late Cretaceous granitic plutons in southwestern Montana: *Northwest Geology*, v. 36, p. 73-90.

21. Mueller, P., D. Foster, J. Gifford, J. Wooden, and D. Mogk, 2008, Tectonic and stratigraphic implications of detrital zircon suites in Cambrian and Precambrian sandstones from the eastern margin of the Belt Basin: *Northwest Geology*, v. 37, p. 61-68.
22. Mueller, P.A., D.W. Mogk, D.J. Henry, J.L. Wooden, and D.A. Foster, 2008, Geologic evolution of the Beartooth Mountains: insights from petrology and geochemistry: *Northwest Geology* v. 37, p. 5-20.
23. Mueller, P., A. Heatherington, D. Foster, and J. Wooden, 2011, Alleghanian granites of the southern Appalachian Orogen: keys to Pangean reconstructions: *Georgia Geological Society Guidebook*, v. 31, p. 29-48.
24. Mogk, D., Henry, D., Mueller, P., and Foster, D., 2012, Origins of a continent: evidence from a Research Experience for Undergraduates project in Northern Yellowstone National Park: *Yellowstone Science*, v. 20, p. 22-32.
25. Bausch, W.G., Baldwin, J.A., and Foster, D.A., 2013, Synextensional emplacement and cooling of the East Fork Dike Swarm at Lost River Pass, Southwest, Montana: *Northwest Geology*, v. 42, p. 299-308.
26. Foster, D.A., Mueller, P.A., Vogl, J.J., Gifford, J., and Mogk, D.W., 2013, The Little Belt Arc of the Great Falls tectonic zone: a key component of the Belt Basin basement: *Northwest Geology*, v. 42, p. 107-110.
27. Mueller, P., Mogk, D., Henry, D., Foster, D., Berndt, T., Grip, T., Hanson, M., Kotash, A., Maloney, P., Philbrick, K., and Ware, B., 2014, Mesoarchean plutonism in the South Snowy block (Yellowstone National Park): new evidence for an old arc, *Northwest Geology*.
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