

## **Professor David A. Foster**

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### **PROFESSIONAL PREPARATION**

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

### **APPOINTMENTS**

*Chair*, Dept. of Geological Sciences, University of Florida, 2013-present  
*Associate Chair*, Dept. of Geological Sciences, University of Florida, 2007-2013  
*Professor*, Department of Geological Sciences, University of Florida, 2005-present  
*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, 2000-2005  
*Assistant Professor*, Department of Geology, University of Florida, 1997-2000  
*Honorary Research Fellow*, Department of Earth Sciences, La Trobe University, 1999-2000  
*Senior Research Fellow*, Department of Earth Sciences, La Trobe University, and Australian Geodynamics Cooperative Research Centre, 1995-1998  
*Research Fellow*, School of Earth Sciences, La Trobe University, 1991-1995  
*School Visitor*, Research School of Earth Sciences, Australian National University, 1993  
*Postdoctoral Research Fellow*, Department of Geology, La Trobe University, 1990-1991

### **AWARDS**

Colonel Allan R. and Margaret G. Crow Term Professor, 2009  
Exemplary Advisor and Mentor, NSF South East Alliance for Graduate Education and the Professoriate, 2008  
Fellow, Geological Society of America, 2006  
F.L. Stillwell Award, Geological Society of Australia, 2005: awarded for the best paper published in the *Australian Journal of Earth Sciences* in 2004  
University of Florida Research Foundation Professor, 2004  
F.L. Stillwell Award, Geological Society of Australia, 1998: awarded for the best paper published in the *Australian Journal of Earth Sciences* in 1997  
La Trobe University Research Fellowship, 1991  
Jessie J. McNall Science Award, 1982

### **PROFESSIONAL SOCIETY MEMBERSHIPS**

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

## COMMITTEES AND ADMINISTRATION

### *Committee Chair*

- Chair Executive Committee, Department of Geological Sciences; 2013-
- Chair, Finance Committee, College of Liberal Arts and Sciences; 2010 - 2011
- Chair, Merit Review Committee, Geological Sciences; 2006 - 2012
- Chair, Salary Equity Review Committee, Geological Sciences; 2006 - 2010
- Chair, Graduate Studies Planning Committee, Geological Sciences; 2005-2007
- Regional Coordinator, IGCP509– Proterozoic of SW Laurentia; 2007-2008
- Convener, EarthScope in the Northern Rockies Workshop; 2005
- Chair, Search Committee – Solid Earth Science position, University of Florida; 2004-2005
- Chair, Search Committee – Geophysics Faculty Position, University of Florida; 2003-2004
- Chair, Search Committee – Geodynamics Faculty Position, University of Florida; 2000-2001

### *Committee Member*

- Search Committee for UF Informatics Institute 2014-2015
- Search Committee for CLAS Biology Dept. Chair 2014
- Geological Sciences External Advisory Board; 2010 – present
- Thermo2014 Awards Committee, International ThermoChronology Community 2014
- 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 - present
- Executive Committee, Department of Geological Sciences; 2007-2013
- National Science Foundation, Division of Earth Sciences, Tectonics Panel Member; 2012
- Finance Committee Member, College of Liberal Arts and Sciences; 2009 – 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
- University of Florida Foundation Grant Review Panel; 2008
- Department Review Committee, University of Florida; 2005-2006
- National Science Foundation, Division of Earth Sciences, Tectonics Panel Member; 2005
- Graduate Studies Committee, University of Florida; 1998-2004
- Search Committee - Assistant-In Geochemistry position, University of Florida; 2004
- Science Advisor to the Editor, Plenum Publishers; 1999-2002
- Organizing Committee for the International Conference on Fission-Track ThermoChronology 2000, Lorne Australia; 1997-2000
- Search Committee – Sedimentary Geology Position, University of Florida; 1999
- Field Trip Coordinator, Geological Society of Australia Specialist Group, 1996
- Quality Review Team - Research and Community Service, La Trobe University; 1995
- Research Committee, School of Earth Sciences La Trobe University; 1995-1997
- International Committee for Fission-Track Dating Standards, IUGC; 1993-1996

## RESEARCH

- Tectonics/continental structure: orogeny, continental extension, ore deposit geology
- $^{40}\text{Ar}/^{39}\text{Ar}$  and U-Pb geochronology and thermoChronology
- (U-Th)/He and fission-track low-temperature thermoChronology

-Regional tectonics of Western North America, Australia, Africa, Gondwana, New Zealand, Panama/northern Andes, & Southern Appalachians  
-Tectonics and global change

## FUNDING

MRI: Acquisition of a High Resolution Electron Probe Micro-Analyzer 09/2014-08/2017;  
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 05/2013-01/2016 \$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);  
01/2013-12/2016  
Australian Research Council \$420,000

Collaborative Research: Precambrian Crustal Evolution in Western Laurentia: Implications from  
the Sawtooth Metamorphic Complex 05/01/2012 to 04/30/2016)  
National Science Foundation (Tectonics)  
EAR1145212 \$468,640 (\$270,182 UF portion)

Collaborative Research: Geochemical Imaging of Post-Pangean Lithospheric Structure in the  
Southern Appalachians 08/2011 to 07/2016  
National Science Foundation (Tectonics)  
EAR06030000 \$412,392 (\$271,128 UF portion)

Integrated Optical Emission and Isotope Ratio Measurements During Laser Ablation 5/2010 to  
10/2013)  
Research Opportunity Fund, University of Florida Research Foundation \$85,066

DSR Interest – Equipment Support of Upgrades to the MS Facility  
7/2010 to 2/2013  
University of Florida Division of Sponsored Research \$50,000

Collaborative Research: REU Site Project--Evolution of Precambrian Rocks in Yellowstone  
National Park 11/2009 to 10/2012  
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 2/2009 to 1/2013  
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  
1/2008 to 2/2012  
National Science Foundation (Tectonics), EAR0738874 \$291,024

Development of a 4-D Model of Crustal Evolution in the Northern Rocky Mountains

4/2006 to 3/2011	
National Science Foundation (EarthScope), EAR0545715	\$216,480
<sup>40</sup> Ar/ <sup>39</sup> Ar Geochronology for EarthScope 2007 to 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 5/2007 to 4/2008	
University of Florida Research Foundation	\$78,950
Evolution of the SW Laurentian Margin: Implications for Proterozoic Crustal Growth and Geodynamics 2/2006 to 1/2010	
National Science Foundation (Tectonics), EAR0538133	\$230,000
Tectono-Thermal Evolution and Exhumation in Transpressional Orogens: the Deep Crust of the Damara Orogen, Namibia; 1/2005 to 12/2007	
National Science Foundation (Tectonics), EAR0440188	\$228,779
Relationship of Lithospheric Age and Composition to Mineral Resources Within, Beneath, and Adjacent to the Belt Basin; 9/2005 to 8/2006	
U.S. Geological Survey	\$29,500
Development of a Laser Ablation Isotope Ratio Capability for Interdisciplinary Research; 5/2005 to 4/2006	
University Florida Research Foundation	\$55,000
Collaborative Research: Workshop for Integrated EarthScope Research and Education in the Northern Rocky Mountains; 9/2004 to 8/2006	
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; 9/2004 to 8/2009	
National Science Foundation (IF), EAR0418905	\$217,901
Origin and Evolution of the Great Falls Tectonic Zone: Implications for the Assembly of Southern Laurentia and Rodinian Connections; 7/2001 to 6/2005	
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 (PI with D.R. Gray); 1/2001 to 12/2003	
Australian Research Council	\$225,000
Amalgamation and Accretion of the Lachlan Orogen, Australia; 7/2000 to 6/2003	
National Science Foundation (Tectonics), EAR0073638	\$169,800
Acquisition of a Noble Gas Mass Spectrometer for Geochronology and Thermochronology at the University of Florida; 8/2000 to 7/2004	
National Science Foundation (IF), EAR0080086	\$280,000
Acquisition of a Noble Gas Mass Spectrometer for Geochronology and Thermochronology at the University of Florida; 8/2000 to 7/2004	
University of Florida Research Foundation and CLAS	\$295,000

Low-temperature thermochronology: applications to morphotectonics and dynamics of continental extension; 1/2000 to 12/2002 (with Andrew Gleadow) 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; 1/1999 to 12/2001 Australian Research Council	\$136,500
Thermochronology of Highly Extended Terrains; 1/1998 to 12/2000 Australian Research Council	\$246,000
A test of the critical taper wedge model; 5/1998 to 6/1999 University of Florida, CLAS	\$13,000
Thermochronological Evolution of Australian Basement Terrains; 1995 to 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 (collaborative with R. Offler & D.R. Gray); 1997 Australian Research Council	\$5,000
Structure and tectonics of the central Adelaide Fold Belt, South Australia (collaborative with D.R. Gray & R. Offler); 1997 Australian Research Council	\$9,000
Fission track thermochronology of narrow rift flanks (co-PI with A.J.W. Gleadow); 1999 Australian Research Council	\$10,000
<sup>40</sup> Ar- <sup>39</sup> Ar Thermochronology - Applications to Extensional Tectonics; 1/1995 to 12/1997 Australian Research Council	\$165,000
Continental Fission Track Imaging (collaborative with B.P. Kohn & A.J.W. Gleadow); 1996-1997; Australian Geodynamics Cooperative Research Centre	\$120,000
Fission-Track Thermochronology of Continental Extension; 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

Exploring Geological Sciences,  
Physical Geology,  
Geology of American National Parks (residential and fully on-line courses)  
Tectonics and Earth Structure,  
Geological Evolution of North America  
Isotope Geology,  
Tectonic Geomorphology,  
Thermochronology  
Igneous and Metamorphic Petrology,  
Special Topics in Geochemistry and Tectonics

## 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); Antonios Marsellos (2010–2015); Ruben Diez Fernandez (2011-2013)

### Graduate Student Primary Supervisor/Committee Chair

#### Ph.D.

Melinda M. Mitchell, (Ph.D. 1997) *The Provenance and Thermal History of the Western Otway Basin and Thermotectonics of the Flinders Ranges, South Australia*  
Wayne P. Noble, (Ph.D. 1998) *The Thermochronology of Crustal Extension Tectonics in East Africa*  
Richard A. Spikings, (Ph.D. 1998) *The Fission Track and  $^{40}\text{Ar}$ - $^{39}\text{Ar}$  Thermochronology and Tectonics of the Mt Isa Inlier, Murphy and Georgetown Inliers, Northeastern Australia*  
Martin Bucher, (Ph.D. 1998) *Timing of deformation, plutonism and cooling in the western Lachlan Fold Belt, Southeastern Australia*  
Peter V. Crowhurst, (Ph.D. 1999) *Tectonics of the New Guinea Mobile Belt and Sepik Basin*  
Michael Hartley, (Ph.D. 2000) *Examination of field and geochronological evidence for the significance of the 500 Ma Delamerian Orogeny in Australia*  
Catherine Spaggiari, (Ph.D. 2002) *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) *Prehistoric vs. Modern Erosion Rates in Columbian Andes: Human Impact and Implications for Landscape Evolution and Conservation.*  
Misty Stroud (Ph.D. ABD) *Significance of 2.4-2.0 Ga Continental Crust in SW Laurentia*  
Jennifer N. Gifford (Ph.D. 2013) *Precambrian Crustal Evolution in the Great Falls Tectonic Zone.*  
Chong Ma (Ph.D. 2015) *Thermotectonics of Two Transpressional Orogens: the Alleghanian in the Southern Appalachians and the Cordilleran in the Idaho Reentrant*

#### Masters

Julia Murphy (Masters 2000) *Geochronology of Late Syn-kinematic 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*  
Patrick W. Gelato (Masters in progress) *Thermochronology and Tectonics of the Western Snake River Plain*  
Alina L. Bricker (Masters in progress) *Low temperature thermochronology of the eastern Snake River Plain - Yellowstone Region.*  
Michael Kedenburg (Masters in progress) *Uplift of the Azuero Peninsula and closure of the Central American Seaway*

#### **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); Paul Bremner (Ph.D. candidate); William Severa (Ph.D. 2015); Christian Stanciu (Ph.D. 2015); Sutatcha Hongsresawat (Ph.D. 2015); Megan Torpey (Ph.D. candidate); Aldo Fernando Rincon Burbana (Ph.D. in progress); Michelle Penkrot (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); Karastin Katusin (Masters in progress); Douglas Sagel (Masters in progress); Iliya Smithka (Masters 2015)

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

Corine Davids (Ph.D. 1999, Australian National University) *A Thermochronological Study of Southern Fiordland, New Zealand*

Mativz Lorenkac (Ph.D. 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 (Ph.D. 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*

### **PUBLICATIONS**

#### **Thesis and Dissertation (unpublished)**

Foster, D.A., 1986, Synplutonic dikes of the Idaho batholith, Idaho and western Montana, Masters Thesis, University of Montana, Missoula.

Foster, D.A., 1989, Mesozoic and Cenozoic thermal history of the eastern Mojave Desert, California and western Arizona, Ph.D. Dissertation, State University of New York at Albany, Albany.

#### **Journal Articles/Chapters in Books/Books**

Foster, D.A., 1986, Heat introduced into a batholith environment due to the emplacement of mafic dikes: *North West Geology*, v. 15, p. 19-23.

Hyndman, D.W., and D.A. Foster, 1988, The role of tonalites and mafic dikes in the generation of the Idaho batholith: *Journal of Geology*, v. 96, p. 31-46.

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.

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.

Foster, D.A., T.M. Harrison, and C.F. Miller, 1989, Age, inheritance, and uplift history of the Old Woman-Piute batholith, California and implications for K-feldspar age spectra: *Journal of Geology*, v. 97, p. 232-243.

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.

Hyndman, D.W., D.A. Foster, C. Rutland, H.W. Smedes, R.I. Tilling, W.R. Greenwood, and R.F. Hardyman, 1989, Cordilleran volcanism, plutonism, and magma generation at various crustal levels; Montana and Idaho: *New Mexico Bureau of Mines and Mineral Resources, Memoir 47*, p. 255-264.

Foster, D.A., and D.W. Hyndman, 1990, Magma mixing and mingling between synplutonic mafic dikes and granite in the Idaho-Bitterroot batholith: *Geological Society of America Memoir 174*, p. 347-358.



- Foster, D.A., and D.W. Hyndman, 1990, Large-scale anatexis: The importance of subcrustal magma intrusion: *Eos, Transaction American Geophysical Union*, v. 71, p. 299-300.
- Foster, D.A., T.M. Harrison, P. Copeland, and M.T. Heizler, 1990, Effects of excess argon on K-feldspar age spectra in the presence of large diffusion domains and plagioclase inclusions: *Geochimica et Cosmochimica Acta*, v. 54, p. 1699-1708.
- Foster, D.A., T.M. Harrison, C.F. Miller, and K.A. Howard, 1990, The  $^{40}\text{Ar}/^{39}\text{Ar}$  thermochronology of the eastern Mojave Desert, California and adjacent western Arizona with implications for the evolution of metamorphic core complexes: *Journal of Geophysical Research*, v. 95, p. 20,005-20,024.
- Carl, B.S., C.F. Miller, and D.A. Foster, 1991, Western Old Woman Mountains shear zone: Evidence for late ductile extension in the Cordilleran orogenic belt: *Geology*, v. 19, p. 893-896.
- Dumitru, T.A., P.B. Gans, D.A. Foster, and E.L. Miller, 1991, Refrigeration of the western Cordilleran lithosphere during Laramide shallow-angle subduction: *Geology*, v. 19, p. 1145-1148.
- Dumitru, T.A., K.C. Hill, D.A. Coyle, I.R. Duddy, D.A. Foster, A.J.W. Gleadow, P.F. Green, G.M. Laslett, B.P. Kohn, and A.B. O'Sullivan, 1991, Fission track thermochronology: Application to continental rifting of southeastern Australia: *Australian Petroleum Exploration Association Journal*, v. 31, p. 131-142.
- Foster, D.A., D.S. Miller, and C.F. Miller, 1991, Tertiary extension in the Old Woman Mountains area, California: evidence from apatite fission track analysis: *Tectonics*, v. 10, p. 875-886.
- Foster, D.A., and A.J.W. Gleadow, 1992, The morphotectonic evolution of rift-margin mountains in central Kenya: constraints from apatite fission track analyses: *Earth and Planetary Science Letters*, v. 113, p. 157-171.
- Foster, D.A., C.F. Miller, T.M. Harrison, and T.D. Hoisch, 1992, The  $^{40}\text{Ar}/^{39}\text{Ar}$  thermochronology and thermobarometry of metamorphism, plutonism, and tectonic denudation in the Old Woman Mountains area, California: *Geological Society of America Bulletin*, v. 104, p. 176-191.
- Foster, D.A., and A.J.W. Gleadow, 1992, Reactivated tectonic boundaries and implications for the reconstruction of southeastern Australia and northern Victoria Land, Antarctica: *Geology*, v. 20, p. 267-270.
- Foster, D.A., and J.E. Spencer, 1992, Apatite and zircon fission-track dates from the Northern Plomosa Mountains, western Arizona: Open-File Report, Arizona Geological Survey, 92-9, 11 p.
- Miller, C.F., J.M. Hanchar, J.L. Wooden, V.C. Bennett, T.M. Harrison, D.A. Wark, and D.A. Foster, 1992, Source region of a granitoid batholith: evidence from lower crustal xenoliths and inherited accessory minerals: *Transactions of the Royal Society of Edinburgh: Earth Sciences*, v. 83, p. 49-62.
- Miller, C.F., J.M. Hanchar, J.L. Wooden, V.C. Bennett, T.M. Harrison, D.A. Wark, and D.A. Foster, 1992, Source region of a granitoid batholith: evidence from lower crustal xenoliths and inherited accessory minerals: in P.E. Brown and B.W. Chappell, eds., The second Hutton symposium on the origin of granites and related rocks: *Geological Society of America Special Paper 272*, p. 49-62.

- Baldwin, S.L., G.S. Lister, E.J. Hill, D.A. Foster, and I. McDougall, 1993, Thermochronologic constraints on the tectonic evolution of an active metamorphic core complex, D'Entrecasteaux Islands, Papua New Guinea: *Tectonics*, v. 12, p. 611-628.
- Fitzgerald, P.G., S.J. Reynolds, E. Stump, D.A. Foster, and A.J.W. Gleadow, 1993, Thermochronologic evidence for timing of denudation and rate of crustal extension of the South Mountain metamorphic core complex and Sierra Estrella, Arizona: *Nuclear Tracks*, v. 21, p. 555-563.
- Foster, D.A., and A.J.W. Gleadow, 1993, Episodic denudation in East Africa - a legacy of intracontinental tectonism: *Geophysical Research Letters*, v. 20, p. 2395-2398.
- Foster, D.A., A.J.W. Gleadow, S.J. Reynolds, and P.G. Fitzgerald, 1993, The 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*, v. 98, p. 2167-2185.
- Foster, D.A., and A.J.W. Gleadow, 1993, The architecture of Gondwana rifting in southeastern Australia: evidence from apatite fission track thermochronology, in Findley, R.H., H.R. Banks, J.J. Veevers, and R. Unrug, eds., *Gondwana 8 Assembly, Evolution and Dispersal*: A.A. Balkema, Rotterdam, p. 597-603.
- Hill, K.C., A. Grey, D.A. Foster, and R. Barrett, 1993, An alternative model for the Oligo-Miocene evolution of northern PNG and the Sepik-Ramu Basins, in G.J. Carmen and Z. Carmen, eds., *Petroleum Exploration and Development in Papua New Guinea*: PNG Chamber of Mines and Petroleum, Port Moresby, p. 241-258.
- John, B.E., and D.A. Foster, 1993, Structural and thermal constraints on the initiation angle of detachment faulting in the southern Basin and Range: The Chemehuevi Mountains case study: *Geological Society of America Bulletin*, v. 105, p. 1091-1108.
- Foster, D.A., J.M. Murphy, and A.J.W. Gleadow, 1994, Middle Tertiary hydrothermal activity and uplift of the northern Flinders Ranges, South Australia: insights from apatite fission-track analysis: *Australian Journal of Earth Sciences*, v. 41, p. 11-17.
- Foster, D.A., A.J.W. Gleadow, and G. Mortimer, 1994, Rapid Pliocene exhumation in the Karakoram, revealed by fission-track thermochronology of the K2 gneiss: *Geology*, v. 22, p. 19-22.
- Allen, C.M., J.L. Wooden, K.A. Howard, D.A. Foster, and R.M. Tosdal, 1995, Sources of the Early Cretaceous plutons in the Turtle and West Riverside Mountains, California: Anomalous Cordillerian interior plutons: *Journal of Petrology*, v. 36, p. 1675-1700.
- Foster, D.A., 1995, Limits on the tectonic significance of rapid cooling events in extensional settings: Insights from the Bitterroot metamorphic core complex, Idaho-Montana: Comment: *Geology*, v. 23, p. 1051-1052.
- Howard, K.A., K.J.W. McCaffrey, J.L. Wooden, D.A. Foster, and S.E. Shaw, 1995, Jurassic thrusting of Precambrian basement over Paleozoic cover in the Clipper Mountains, southeastern California, in D.M. Miller and C. Busby, eds., *Jurassic Magmatism and Tectonics of the North American Cordillera*: *Geological Society of America Special Paper* 299, p. 375-392.
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