

CV

**Jonathan C. Lewis**

**BACKGROUND**

**Education**

1999-2001 postdoc, Geology, University of California, Davis  
1998 Ph.D., Geology, University of Connecticut, Storrs  
1988 M.S., Geology, University of Tennessee, Knoxville  
1983 B.S., Geology, University of Vermont, Burlington

**Experience**

2016-pres. Professor, Department of Geoscience, Indiana University of Pennsylvania Geoscience, Indiana, Pennsylvania  
2009-2016 Associate Professor, Department of Geoscience, Indiana University of Pennsylvania Geoscience, Indiana, Pennsylvania  
2004-2009 Assistant Professor, Department of Geoscience, Indiana University of Pennsylvania Geoscience, Indiana, Pennsylvania  
2001-2004 Adjunct Assistant Professor and Senior Postdoctoral Researcher, Department of Geosciences, University of Massachusetts, Amherst  
1999-2001 National Science Foundation Postdoctoral Fellow and Lecturer, Department of Geology, University of California, Davis  
taught: *Earth Dynamics: Convergent and Collisional Processes*, Winter 2001  
1993-1998 Research Assistant and Teaching Assistant, Department of Geology and Geophysics, University of Connecticut  
taught: *Introductory and Structural Geology* Laboratories, 1994  
1992-1993 Environmental Consultant, Hewlett-Packard Company, Loveland, Colorado  
1990-1992 Project Geologist, Harding Lawson Associates, Denver, Colorado  
1987-1990 Hydrogeologist, NUS Corporation, Oak Ridge, Tennessee  
1985-1986 Teaching Assistant, Department of Geological Sciences, University of Tennessee  
taught: *Introductory Geology and Sedimentology* Laboratories

**TEACHING**

**Classes**

GEOS 101 – Dynamic Earth (two sections of 75 students, Spring 2005; two sections of 200 students, Spring 2006, 07; two sections of 130 students, Spring 2008, 09; one section of 150 students Fall 2011, one

- section of 170 students Fall 2012, one section of 185 students Fall 2013)
- GEOS 102 – Dynamic Earth Lab (24 students per section: 3 in Fall 2004; 2 in Fall 2006; 1 in Spring 2007, 2 in Fall 2007, 2 in Fall 2008, 2 in Fall 2009, 1 in Fall 2011, 2 in Spring 2018)
- GEOS 121 – Physical Geology (one section; Fall 2005)
- GEOS 122 – Physical Geology Laboratory (two sections, Fall 2005)
- GEOS 201 – Foundations of Geology (lecture and lab; Spring 2010, 2011, 2012, 2013, 2014, 2017, 2018, 2019, Fall 2013, 2014, 2015, 2017, 2018, 2019; lab Fall 2010, 2011, 2012, Spring 2015)
- GEOS 202 – Quantitative Methods in the Geosciences (lecture/lab, Fall 2009, 2011)
- GEOS 281 – Understanding Earth through Ocean Cores (Summer 2014 co-taught with S. Hovan)
- GEOS 302 – Structural Geology (lecture and lab; Spring 2010, 2012, 2014, 2017, 2019, Fall 2015)
- GEOS 303 – Field Geology (lecture and lab; Fall 2007, 2009, 2011; Summer 2013)
- GEOS 310 – Environmental Geology (lecture and lab, Spring 2005, 2007, 2009, 2011, 2013, 2015, Fall 2017, 2019)
- GEOS 325 – Structural Geology (lecture and lab; Fall 2004, 2006, 2008)
- GEOS 326 – Field Geology (lecture and lab; Fall 2005, Fall 2007)
- GEOS 338 – Geology of the American Southwest (Summer field class; 2005)
- GEOS 362 – Plate Tectonics (lecture and lab; Fall 2010, 2012, 2016, 2018; Spring 2006, 2008)
- GEOS 380 – Research Methods (one section; Fall 2006, 2007, 2008)
- GEOS 405 – Geology of the American Southwest Seminar (Spring 2011)
- GEOS 406 – Geology of the American Southwest Field Workshop (Summer 2011; Summer 2015, co-taught with S. Hovan; 3 weeks; Summer 2018, co-taught with S. Hovan and N. Deardorff)

### **Undergraduate Research Mentoring**

- Lindsey Aman (Senior Research, 2017-present)
- Lauren Donati (Senior Research, 2017-present)
- Caleb McCombie (Senior Research, 2016-18)
- Amy Clegg (Senior Research, 2016-18)
- Cate Bressers (Senior Research, 2015-17, now M.S. student at Penn State)
- Shane Simcoviak (Senior Research, 2014-15)
- Katie Snyder (Senior Research, 2014-15)
- Eric Peroli (Senior Research, 2014-15)
- Allison Berry (Senior Research, 2013-17, now geologist at Environ. Products and Services of Vermont in Syracuse, NY)
- Matthew Magill (Senior Research, 2013-15, now geologist at Amec Foster Wheeler)
- Charles Cavallotti (Senior Research, 2013-present)

Thomas Paronish (Senior Research, 2011-14, M.S. WVU)  
 Daniel O'Hara (Goldwater Scholar 2013-14; McNair Scholar & Senior Research, 2009-2013, see *Funding and Honors*, now Ph.D. candidate at U. of Oregon)  
 Paul Good (Senior Research, 2010-11)  
 Mark Smith (Senior Research, 2010-11, M.S. from UConn, founder and president of Macroscopic Solutions, LLC)  
 Ellen Lamont (Senior Research, 2009-12, M.S. from UConn, now Ph.D. student and 2018 Fulbright Fellow at Oregon State U.)  
 Anthony LeDonne (McNair Scholar & Senior Research, 2010-11)  
 Surinder Tara (Senior Research, 2009-10)  
 Matthew Harding (Senior Research, 2008-12, M.S. from Kent State)  
 Aaron Bowser (Senior Research, 2008-09)  
 Michael Jarvis (Senior Research, 2007-08; geologist at Range Resources and regional energy sector leader)  
 Kalin McDannell (McNair Scholar & Senior Research, 2007-08, see *Funding and Honors*; M.S. from WVU, Ph.D. from Lehigh, now postdoc at the Geological Survey of Canada)  
 Jeremy McCombie (Senior Research, 2007)  
 Adam Boozer (see *Funding and Honors*)  
 Garrett Schmidt (Senior Research, 2005)

### **Professional Development**

National Science Foundation Building Strong Geoscience Departments Workshop: *Strengthening Your Geoscience Program: A Practical Workshop with Ideas and Examples*, Summer 2009, College of William and Mary, Williamsburg, VA.  
 National Science Foundation Cutting Edge Workshop: *Early Career Geoscience Faculty Workshop*, Summer 2005, College of William and Mary, Williamsburg, VA.  
 National Science Foundation Cutting Edge Workshop: *Teaching Structural Geology in the 21<sup>st</sup> Century*, Summer 2004, Smith College, Northampton, MA.

### **SCHOLARLY ACTIVITY**

#### **Funding and Honors**

2019 (in review)	National Science Foundation MRI (\$235,586): “Collaborative Research: Stress Transfer Across the Subduction Environment: driving permanent strain and hazards inland of the megathrust” (role: one of PIs, lead PI: A. Newman, Georgia Tech; other PIs: T. Dixon, Univ. So. FL; P. LaFemina, PSU; S. Schwartz, UC Santa Cruz; J. Marshall, Cal Poly Pomona; A. Booth, Portland State Univ.)
2018	National Science Foundation MRI (\$558,131): “MRI: Acquisition of a Scanning Electron Microscope with EDS and EBSD Capabilities to Enhance Teaching and Research at Indiana University of Pennsylvania” (role: one of 5 co-PIs, lead PI N. Deardorff, IUP)

- 2018 *Honorable Mention* for the 2018 *Carnegie Science Awards in the Post-Secondary Educator* category, publically announced 13 March 2018, Pittsburgh, PA
- 2017 National Science Foundation Tectonics Program (\$162,400): Collaborative Research: RUI: Reconstructing the Plastic-to-Brittle Exhumation History of the Taiwan Metamorphic Core” (role: PI; co-PI T. Byrne, U. of Connecticut)
- 2017 National Science Foundation Improving Undergraduate STEM Education: Pathways into Geoscience Program (\$45,500): Workshop award for “Diversifying the Next Generation Geoscience Mentor Community Through Training Aboard the *JOIDES/Resolution*” (role: PI with co-PI S. Hovan, IUP)
- 2017 National Science Foundation Improving Undergraduate STEM Education: Pathways into Geoscience Program (\$92,000): 3-year continuation of collaborative project “STEM Student Experiences Aboard Ships (STEMSEAS) Project” (role: PI with PI S. Cooper at Columbia U.)
- 2017 (not funded) National Science Foundation MRI (\$491,702): “Acquisition of a Scanning Electron Microscope with EDS and EBSD Capabilities to Enhance Teaching and Research at Indiana University of Pennsylvania (role: one of 5 co-PIs, lead PI N. Deardorff, IUP)
- 2015 National Science Foundation Improving Undergraduate STEM Education: Pathways into Geoscience Program (\$182,000): “STEM Student Experiences Aboard Ships (STEMSEAS) Project” (role: PI with co-PI S. Cooper at Columbia U.; 1-year proof-of-concept award, plus \$36,400 supplement)
- 2015 Faculty Professional Development Council Annual Grant (\$10,000): “LiDAR-Guided Earthquake Modeling and Fieldwork in Taiwan During Spring 2016 Sabbatical Research (role: PI)
- 2014 Consortium for Ocean Leadership (\$10,000): “NSF Ocean Leadership School of Rock Scholarships” (role: co-PI with S. Hovan, IUP)
- 2013 IUP USRC Small Grants Program (\$2,000): “Student-Faculty Field Work in Support of Non-Equilibrium Topography and Crustal-Scale Imbrication in an Arc-Continent Collision, Taiwan” (role: PI, undergraduate student assistant Allison Berry)
- 2013 National Science Foundation Tectonics Program (\$5,853): REU Supplement to "Collaborative Research: Non-equilibrium Topography and Crustal-scale Imbrication in an Arc- continent Collision, Taiwan." (role: PI)
- 2013 IUP College of Natural Sciences and Mathematics Outstanding Researcher presented by the IUP Research Institute, April 1, 2013
- 2013 IUP College of Natural Sciences and Mathematics Outstanding

- Achievement Awards for Service, May 15, 2013
- 2012 National Science Foundation Tectonics Program (\$17,182):  
"Collaborative Research: Non-equilibrium Topography and  
Crustal-scale Imbrication in an Arc-continent Collision,  
Taiwan," (role: co-PI; co-PIs T. Byrne and W. Ouimet, U. of  
Connecticut)
- 2011 IUP USRC Small Grants Program (\$1,994): "Modeling  
Incipient Arc-Continent Collision Offshore SE Taiwan"  
(role: PI, undergraduate student collaborator Daniel O'Hara)
- 2009 (not funded) National Science Foundation Tectonics Program (\$190,319):  
"Collaborative Research: RUI: What Drives Forearc Sliver  
Motion?: Insights from Three Competing Models in Costa Rica"  
(role: PI; collaborator J. Marshall, Cal Poly Pomona)
- 2009 National Science Foundation Tectonics Program (\$4,632): "REU:  
Collaborative Research: Reactivation of Continental Margin  
Fracture Zones: Insights From Seismicity, Strain Patterns, and  
Numerical Modeling of Modern and Ancient Orogens" (role: PI)
- 2008 (not funded) Petroleum Research Fund of the American Chemical Society B- Type  
Grant Proposal (\$65,000): "Quaternary Pull-Apart Basin Formation  
In A Humid Tropical Climate: Constraints From An Intra-Arc  
Depocenter, Central Costa Rica" (role: co-PI with K. Farnsworth,  
IUP)
- 2008 IUP Research Institute New Investigator Award, April 16, 2008
- 2008 National Science Foundation Tectonics Program (\$31,987):  
"Collaborative Research: Reactivation of continental margin  
fracture zones: Insights from seismicity, strain patterns and  
numerical modeling of modern and ancient orogens" (role: co-PI;  
co-PIs J. Crespi and T. Byrne, University of Connecticut)
- 2008 U.S. Science Support Program for IODP Post-Expedition Award  
(\$11,500): "Geometry, kinematics and relative ages of core-scale  
faults at Sites C0001 of IODP Expedition 315: core, thin-section  
and CT-scan constraints" (+ supplemental \$3,300 for travel to  
Kochi, Japan) (role: PI)
- 2007 IUP USRC Small Grants Program (\$1,500): "Mapping and dating  
stream terraces in the Pejibaye pull-apart basin: Costa Rica" (role:  
PI, student collaborator Kalin McDannell)
- 2007 (not funded) Petroleum Research Fund of the American Chemical Society B-Type  
Grant Proposal (\$65,000): "Quaternary Pull-Apart Basin Formation  
In A Humid Tropical Climate: Constraints From An Intra-Arc  
Depocenter, Central Costa Rica" (role: PI)
- 2007 National Science Foundation MRI (\$297,684): "Acquisition of Mobile  
Spatial Data Acquisition and Processing Technologies (MSDAPT)  
to Support Cross-Disciplinary Research and Undergraduate and  
Graduate Research Training (role: one of 5 co-PIs, lead PI B.

- Chiarulli, IUP)
- 2006 IUP USRC Small Grants Program (\$1,500): “Reconnaissance field study of the Tucurrique-Atirro and Kabebeta fault zones, Costa Rica” (role: PI, undergraduate student collaborator Kalin McDannell)
- 2006 IUP USRC Small Grants Program (\$1,347): “Modeling seismogenic strain at the Costa Rica convergent plate boundary II” (role: PI, undergraduate student collaborator Adam Boozer)
- 2006 IUP Academic Computing Policy Advisory Committee Technological Exploration and Innovation Fund award (\$1,200): “Acquisition and testing of an Xplore Technologies iX104C2 AllVue Geopad” (role: PI)
- 2005 (not funded) National Science Foundation MRI (\$232,000): “Acquisition of stable isotope analytical equipment at Indiana University of Pennsylvania” (role: one of 3 co-PIs, lead PI M. Poage, IUP)
- 2005 IUP USRC Small Grants Program (\$900): “Modeling seismogenic strain at the Costa Rica convergent plate boundary” (role: PI, student collaborator Adam Boozer)
- 2004 (not funded) U. S. Naval Air Warfare Center, Department of Defense (\$144,500): “Kinematic and Dynamic Studies of the Coso Geothermal and Surrounding Areas - II” (role: PI)
- 2003 (not funded) National Science Foundation Tectonics Program (\$182,000): “The Relation Between Active Non-recoverable Strain and Topographic Relief on the Brittle-viscous Transition: Coso Range, California” (role: PI)
- 2001-2002 U. S. Naval Air Warfare Center, Department of Defense (N68936-01-C-0094, \$116,000): “Kinematic and Dynamic Studies of the Coso Geothermal and Surrounding Areas” (role: PI)
- 1999-2001 National Science Foundation Earth Sciences Postdoctoral Fellowship (#9901491, \$72,000): “Kinematic Inversion of Focal Mechanism Solutions at Active Subduction Zones” (role: PI)
- 1998 Best Student Paper, Tectonophysics Section of the American Geophysical Union, 1998 Western Pacific Geophysics Meeting
- 1993-1995, 1997 Predoctoral Fellowship, University of Connecticut
- 1994 Research Grant, Geological Society of America, Structure and Tectonics Division
- 1994 Grant-in-Aid of Research, Sigma Xi
- 1984 Research Grant, Carlos C. Campbell Memorial Research Fund, Great Smoky Mountains Conservation Association

**Publications** (recently graduated undergraduate authors underlined)

## 2019

Hashimoto, Y., Stipp, M., **Lewis, J. C.**, and Wuttke, F., Paleo-stress orientations and magnitudes from triaxial testing and stress inversion analysis in Nankai accretionary prism sediments: *Progress in Earth and Planetary Science*, v. 6, no. 1, p. 3.

## 2018

Kodama, K., T. Byrne, **J. C. Lewis**, J. P. Hibbard, M. Sato, and T. Koyano, Emplacement of a layered mafic intrusion in the Shimanto accretionary complex of southwest Japan: Evidence from paleomagnetic and magnetic fabric analysis in *Geology and Tectonics of Subduction Zones: A Tribute to Gaku Kimura*, eds. T. Byrne, M. B. Underwood III, D. Fisher, L. McNeill, D. Saffer, K. Ujiie, and A. Yamaguchi, Volume 534, Geological Society of America

## 2017

Cooper, S. K., and **J. C. Lewis**, STEMSEAS: A Vehicle for the US Academic Fleet to Serve Undergraduates from Diverse Backgrounds: *Oceanography*, v. 30, no. 4.

Montero, W., **J. C. Lewis**, and M. C. Araya, The Guanacaste Volcanic Arc Sliver of Northwestern Costa Rica: *Scientific Reports*, v. 7, no. 1, p. 1797

## 2016

Lin, W., T. B. Byrne, M. Kinoshita, L. C. McNeill, C. Chang, **J. C. Lewis**, Y. Yamamoto, D. M. Saffer, J. C. Moore, H.-Y. Wu, T. Tsuji, Y. Yamada, M. Conin, S. Saito, T. Ito, H. J. Tobin, G. Kimura, K. Kanagawa, J. Ashi, M. B. Underwood, and T. Kanamatsu, Distribution of stress state in the Nankai subduction zone, southwest Japan and a comparison with Japan Trench: *Tectonophysics*, v. 692, Part B, p. 120-130.

## 2015

**Lewis, J. C.**, D. J. O'Hara, and R.-J. Rau, Seismogenic strain across the transition from fore-arc slivering to collision in southern Taiwan, *Journal of Geophysical Research: Solid Earth*, 120(6), 2015JB011906, doi:10.1002/2015JB011906.

## 2013

**Lewis, J. C.**, T. B. Byrne, and K. Kanagawa (2013), Evidence for mechanical decoupling of the upper plate at the Nankai subduction zone: Constraints from core-scale faults at NantroSEIZE Sites C0001 and C0002, *Geochemistry, Geophysics, Geosystems*, 14(3), 620-633, doi:10.1029/2012GC004406.

Lewis, J. C., and Cooper, S. K., 2018, Expanding the Geo/Ocean Science Pipeline Through Innovative At-Sea Experiences, presented at ASLO 2018 Summer Meeting: Victoria, BC, Association for the Sciences of Limnology and Oceanography.

Montero, Walter P., **J. C. Lewis**, J. S. Marshall, S. Kruse and P. Wetmore, Neotectonic faulting and forearc sliver motion along the Atirro-Rio Sucio fault system, Costa Rica, Central America, *Geological Society of America Bulletin*, doi:10.1133-/B30471.1

Mirakian, D. C., J. M. Crespi, T. B. Byrne, C. Huang, W. B. Ouimet and **J. C. Lewis**, Tectonic implications of nonparallel topographic and structural curvature in the higher elevations of an active collision zone, Taiwan, *Lithosphere* v. 5, no. 1, p. 49-66.

## 2009

Byrne, T. B., W. Lin, A. Tsutsumi, Y. Yamamoto, **J. C. Lewis**, K. Kanagawa, Y. Kitamura, A. Yamaguchi and G. Kimura, Anelastic strain recovery reveals extension across SW Japan subduction zone, *Geophysical Research Letters* v. 36, L23310, doi:10.1029/2009GL040749.

#### 2008

**Lewis, J. C.**, A. C. Boozer, A. Lopez and W. Montero, Collision versus sliver motion at the Middle America subduction zone: constraints from background seismicity in central Costa Rica, *Geochemistry Geophysics Geosystems*, v. 9 (7), Q07S06, doi:10.1029/2007GC001711.

#### 2007

**Lewis, J. C.**, Fine-scale partitioning of contemporary strain in the southern Walker Lane: Implications for accommodating divergent strike-slip motion, *Journal of Structural Geology*, v. 29, p. 1201-1215, doi:10.1016/j.jsg.2007.02.015.

**Lewis, J. C.**, R. J. Twiss, C. J. Pluhar and F. C. Monastero, Multiple constraints on divergent strike-slip deformation along the eastern margin of the Sierran microplate, SE California, in: *Exhumation Associated with Continental Strike-Slip Systems*, eds: Till, A. B., S. M. Roeske, J. C. Sample, and D. A. Foster, *Geological Society of America Special Paper 434*.

#### 2006

Pluhar, C. J., R. S. Coe, **J. C. Lewis**, F. C. Monastero and J. M. G. Glen, Fault block kinematics at a releasing stepover of the Eastern California shear zone: Partitioning of rotation style in and around the Coso geothermal area and nascent metamorphic core complex, *Earth and Planetary Science Letters*, v. 250, p. 134-163, doi:10.1016/j.epsl.2006.07.034.

#### 2003

**Lewis, J. C.** and T. B. Byrne, History of metamorphic fluids along outcrop-scale faults in a Paleogene accretionary prism, SW Japan: Implications for prism-scale hydrology, *Geochemistry Geophysics Geosystems*, v. 4 (9), 9007, doi:10.1029/2002GC000359.

**Lewis, J. C.**, J. R. Unruh and R. J. Twiss, Seismogenic strain and motion of the Oregon coast block, *Geology*, v. 31, p. 183-186.

#### 2002

**Lewis, J. C.**, T. B. Byrne and X. M. Tang, A geologic test of the Kula-Pacific ridge-capture mechanism for the formation of the West Philippine basin, *Geological Society of America Bulletin*, v. 114, p. 656-664.

Unruh, J. R., E. Hauksson, F. C. Monastero, R. J. Twiss and **J. C. Lewis**, Seismotectonics of the Coso Range-Indian Wells Valley region, California: Transtensional deformation along the southeastern margin of the Sierra Nevada microplate, in: *Geologic Evolution of the central Mojave Desert and southern Basin and Range*, eds: Glazner, A. F., J. D. Walker and J. M. Bartley, *GSA Memoir 195*, p. 277-294.

#### 2001

**Lewis, J. C.** and T. B. Byrne, Fault kinematics and past plate motions at a convergent plate boundary: Tertiary Shimanto belt, southwest Japan, *Tectonics*, v. 20, p. 548- 565.



2000

**Lewis, J. C.**, T. B. Byrne, J. D. Pasteris, D. London and G. B. Morgan, VI, Early Tertiary fluid flow and pressure-temperature conditions of the Shimanto accretionary complex of southwest Japan: Constraints from fluid inclusions, *Journal of Metamorphic Geology*, v. 18, p. 319-333.

1997

**Lewis, J. C.**, T. Byrne and D. J. Prior, Small faults and kink bands in the Nankai accretionary complex: Textural observations from Site 808 of ODP Leg 131, *The Island Arc*, v. 6, p. 183-196.

1996

**Lewis, J. C.** and T. Byrne, Deformation and diagenesis in an ancient mud diapir, southwest Japan, *Geology*, v. 24, p. 303-306.

1991

Woodward, N. B., J. B. Connelly, R. R. Walters and **J. C. Lewis**, Tectonic evolution of the Great Smoky Mountains, in S. A. Kisch (ed.), *Studies of Precambrian and Paleozoic Stratigraphy in the Western Blue Ridge: Carolina Geological Society Field Trip Guidebook*, p. 57-68.

### **Funded Research Expeditions & Sabbaticals**

2016

Spring 2016 Sabbatical focusing on Earthquake Modeling and Fieldwork in Taiwan

2007

Nankai Trough Seismogenic Zone Experiment (NanTroSEIZE) Expedition 315; vessel, *D/V Chikyu*; Chief Scientists, Juichiro Ashi and Siegfried Lallemand; Duration, 16 November – 13 December, 2007; Sites, C0001 and C0002; Role, Structural Geologist.

### **Abstracts and Invited Presentations (graduate students, IUP undergraduate students)**

2018

**Lewis, J.** and S. Cooper, Expanding the Geo/Ocean Science Pipeline Through Innovative At-Sea Experiences, Abstract 10760, presented at the Association for the Sciences of Limnology and Oceanography Meeting, Victoria, BC, 10-15 June (oral presentation)

**Lewis, J.** and M. Chojnacki, Documenting the Plastic-To-Brittle Exhumation History of the Metamorphic Core of Taiwan, Abstract SE16-A005, presented at the Asia Oceania Geosciences Society Meeting, Honolulu, HI, 3-8 June (oral presentation)

Hashimoto, Yoshitaka, M. Stipp, **J. Lewis** and F. Wuttke, Paleo-Stress Orientations and Magnitudes from Triaxial Testing and Stress Inversion Analysis in Nankai Accretionary Prism Sediments, Abstract SE11-13-A008, presented at the Asia Oceania Geosciences Society Meeting, Honolulu, HI, 3-8 June (oral presentation)

Cooper, S. K. and **J. C. Lewis**, Expanding the Geoscience Pipeline Through Innovative At-Sea Experiences, Abstract ED44B-2473, presented at 2018 Ocean Sciences Meeting, Portland, OR, 11-16 Feb. (poster presentation)

White, L. D., S. K. Cooper, and **J. C. Lewis**, A-STEP to Understanding Science: IODP School of Rock and Ambassadors for STEM Education to Enhance Participation, American Geophysical Union Fall Meeting, Abstract ED12A-12: Washington, DC, American Geophysical Union, Dec. 10-14 (oral presentation)

Aman, L., L. Donati, R. T. Bolesta, **J. C. Lewis**, M. J. Chojnacki, T. B. Byrne, J.-C. Lee, E.-C. Yeh, G.-R. Ho, and S. C. Chao, Rapid Exhumation of the Eastern Central Range of Taiwan: Constraints from Brittle Deformation Patterns, American Geophysical Union Fall Meeting, Abstract T31A-06: Washington, DC, American Geophysical Union, Dec. 10-14 (oral presentation)

Chojnacki, M. J., L. Aman, L. Donati, R. T. Bolesta, **J. C. Lewis**, J.-C. Lee, E.-C. Yeh, and G.-R. Ho, Geometry and kinematics of last-stage structures in the exhumation of young blueschists in the Taiwan arc-continent collision, American Geophysical Union Fall Meeting, Abstract T31A-05: Washington, DC, American Geophysical Union, Dec. 1-14 (oral presentation)

Yeh, E.-C., Y.-K. Lin, Y.-H. Chen, P.-C. Chen, Z.-W. Wu, T.-R. Guo, J.-C. Lee, T. B. Byrne, **J. C. Lewis**, and C.-H. Tsai, Structural Analysis of Bending Fold and Sub-Horizontal Foliation in the Eastern Central Range of Taiwan and Its Tectonic Implications, American Geophysical Union Fall Meeting, Abstract T23A-0337: Washington, DC, American Geophysical Union, Dec. 10-14 (poster presentation)

## 2017

**Lewis, J. C.**, S. K. Cooper, S. A. Hovan, R. M. Leckie, L. D. White, Workshop initial report: Expanding the geoscience pipeline by connecting educators with early career IODP scientists, Abstract ED21C-01, presented at 2017 Fall Meeting, AGU, New Orleans, LA, 11-15 Dec. (oral presentation)

Hashimoto, Y., M. Stipp, **J. C. Lewis**, and F. Wuttke, Constraints on Paleo-Stress Magnitude from Triaxial Test Results and Stress Inversion Analysis of Nankai Accretionary Prism Sediments, Abstract T11B-0461, presented at 2017 American Geophysical Union Fall Meeting, New Orleans, LA, 11-15 Dec. (poster presentation)

**Lewis J. C.**, and Y.-C. Chan, Fieldwork Remains Indispensable To Geological Studies While Offering Opportunities For Synergy With Analytical Methods: Examples From Costa Rica And Taiwan, Joint 52nd Northeastern Annual Section / 51st North-Central Annual Meeting of the Geological Society of America, Abstracts with Programs. Vol. 49, No. 2 Pittsburgh, PA, 18-21 Mar. (poster presentation)

## 2016

Berry, A., and **J. Lewis**, The Longitudinal and Vertical Distribution of Brittle Deformation in the Southern Central Range Taiwan: Constraints from Earthquakes and Mesoscale Faults, Annual Meeting of the Geological Society of America, Volume Abstracts with Programs, Vol. 48, No. 7: Denver, Colorado.

Berry, A. R., and **J. C. Lewis**, The Longitudinal and Vertical Distribution of Brittle Deformation in the Southern Central Range Taiwan: Constraints From Earthquakes and Mesoscale Faults, American Geophysical Union Fall Meeting, Abstract T14A-06: San Francisco, CA, American Geophysical Union. (oral presentation)

Cooper, S., **J. Lewis**, J., K. B. Thomson, M. Leckie, K. St. John, S. F. Pekar, and K. J. Van Der Hoeven Kraft, Initial Results from the STEM Student Experiences Aboard Ships

(STEMSEAS) Program, Annual Meeting of the Geological Society of America, Volume Abstracts with Programs, Vol. 48, No. 7: Denver, Colorado.

**Lewis, J.**, S. Cooper, J. Alberts and K. Thomson, *invited talk*, Overarching Vision and Structure of the STEM Student Experiences Aboard Ships (STEMSEAS) Program, Annual Meeting of the Geological Society of America Volume Abstracts with Programs, Vol. 48, No. 7: Denver, Colorado.

**Lewis, J.**, W. Montero and M. C. Araya, A Fault System Defines the Northeastern Margin of the Costa Rica Arc Sliver, Annual Meeting of the Geological Society of America, Volume Abstracts with Programs, Vol. 48, No. 7: Denver, Colorado.

#### 2015

Berry, A., and **J. Lewis**, High Uplift Rates Coincident With Normal Faulting, Southern Central Range, Taiwan, Geological Society of America Annual Meeting, Volume Abstracts with Programs. Vol. 47, No. 7, p. 148: Baltimore, MD., 1-4 Nov.

Bressers, C., and **J. Lewis**, Analog Modeling The Subduction of the Chinese Continental Margin Fracture Zone Promontory in Western Taiwan, Geological Society of America Annual Meeting, Volume Abstracts with Programs. Vol. 47, No. 7, p. 148: Baltimore, MD., 1-4 Nov.

**Lewis, J.**, C. Cavallotti and R.-J. Rau, A role for pre-collision processes in the origin of the aseismic zone of the southern Taiwan Central Range, Abstract T43A-2968 presented at 2015 Fall Meeting, AGU, San Francisco, Calif., 14-18 Dec.

**Lewis, J.**, *invited talk*, *The Role of the Upper- and Lower-Plate Architecture in the Taiwan Arc-Continent Collision*, Edinboro University of Pennsylvania, October 18

#### 2014

**Lewis, J.**, Berry, A. R., Cavallotti, C. J., O'Hara, D. and Rau, R., Active Subhorizontal NE-SW Stretching Across the Eastern Margin of the Southern Central Range of Taiwan at ~23.1 N, Abstract T23D-08 presented at 2014 Fall Meeting, AGU, San Francisco, Calif., 15-19 Dec. (oral presentation)

#### 2013

**Lewis, J. C.**, *invited talk*, *The Role of Upper- and Lower-Plate Architecture in the Taiwan Arc-Continent Collision*, University of Pittsburgh, March 28.

**Lewis, J.**, O'Hara, D. and Rau, R., The Role of Upper Plate Silvering in Burial of the Luzon Forearc in Taiwan, Abstract T13C-2538 presented at the 2013 Fall Meeting, AGU, San Francisco, Calif.

Lamont, Ellen, R.-J. Rau, T. B. Byrne, **J. C. Lewis**, J.-C. Lee, An Evaluation of Previously Recognized Transfer Fault Zones in Taiwan's Western Foothills Based on Earthquake Distributions and Focal Mechanisms, Abstract T13C-2545 presented at the 2013 Fall Meeting, AGU, San Francisco, Calif.

O'Hara, D., J.-C. Lee and J. Lewis, Accommodation by Varying Strain Regimes along the Northern Luzon Arc (Coastal Range, Taiwan)—Insights from Focal Mechanism, Abstract T13C-25389 presented at the 2013 Fall Meeting, AGU, San Francisco, Calif.

#### 2012

**Lewis, J. C.**, *invited talk*, *Active Deformation in the Taiwan Arc-Continent Collision: The Role of Upper- and Lower-Plate Architecture*, University of Akron, October 18.

2011

**Lewis J. C., D. O'Hara**, R-J Rau, T. Byrne, Upper Plate Control of Crustal Architecture in Southeast Taiwan: Evidence from Strain Inversions of Earthquake Focal Mechanisms, Abstract T52C-04 presented at 2011 Fall Meeting, AGU, San Francisco, Calif., 5-9 Dec.

**O'Hara, Daniel, J.C. Lewis**, R-J Rau, Slip partitioning offshore southeast Taiwan and southward propagation of the Longitudinal Valley Fault: Evidence from seismotectonic inversions, Abstract T52C-05 presented at 2011 Fall Meeting, AGU, San Francisco, Calif., 5-9 Dec. (oral presentation)

**Lamont, E. A., J. C. Lewis**, T. Byrne, J. Crespi, R-J. Rau, Transient Upper Crustal Kinematic Compatibility Structure Illuminated By The Chi Chi Earthquake: Results From Strain Inversions In The Luliao Region, Taiwan, Geological Society of America *Abstracts with Programs*, Vol. 43, No. 1, p. 83., Paper 14-11, Pittsburgh, PA. (oral presentation)

**Smith, M., J. C. Lewis**, T. Byrne, D. Mirakian, C. Huang, E. A. Lamont, Petrographic Characterization Of Deformation Mechanisms And Kinematics In Post-Cleavage Faults Accommodating Differential Uplift Of The Hsuehshan Range, Taiwan, Geological Society of America *Abstracts with Programs*, Vol. 43, No. 1, p. 83., Paper 66-2, Pittsburgh, PA.

**Ledonne, A. J.** Fracture Orientations And Gamma Counts In Devonian Marcellus Shale Outcrops In The Valley And Ridge Province Adjacent To The Allegheny Front, Geological Society of America *Abstracts with Programs*, Vol. 43, No. 1, p. 83., Paper 61-12, Pittsburgh, PA.

**Harding, M. R., J. C. Lewis**, Vein Structures And Faults In Core Samples From Nantroseize Expedition 315, Sites C0001 and C0002, Geological Society of America *Abstracts with Programs*, Vol. 43, No. 1, p. 83., Paper 38-27, Pittsburgh, PA.

**O'Hara, Daniel J., J. C. Lewis**, R-J. Rau, Strain Partitioning Offshore Southeast Taiwan: Evidence From Focal Mechanism Strain Inversions Near The Huatung Ridge, Geological Society of America *Abstracts with Programs*, Vol. 43, No. 1, p. 83., Paper 22-2, Pittsburgh, PA.

Mirakian, D., T. Byrne, J. Crespi, C. Huang, **J. C. Lewis**, Paleostress Analysis And Active Uplift Patterns Across An Arcuate Mountain Front, Hsuehshan Range, Taiwan, Geological Society of America *Abstracts with Programs*, Vol. 43, No. 1, p. 83., Paper 61-8, Pittsburgh, PA.

2010

**Lamont, E. A., J. Lewis**, T. B. Byrne, J. M. Crespi, R. Rau, Transient Upper Crustal Tear Illuminated by the Chi Chi Earthquake: Results from Strain Inversions in the Luliao Region, Taiwan, Abstract T11B-2074 presented at 2010 Fall Meeting, AGU, San Francisco, Calif., 13-17 Dec.

**Lewis, J. C., D. O'Hara**, R. Rau D., T. B. Byrne, Strain Partitioning at the Huatung Ridge, Offshore Southeast Taiwan: Evidence from Seismotectonics, Abstract T51A-2000 presented at 2010 Fall Meeting, AGU, San Francisco, Calif., 13-17 Dec.

**Lewis, J. C., E. Lamont**, T. B. Byrne, J. Crespi, R. Rau, Block Rotations In The Luliao Region of Taiwan: Evidence From Post Chi Chi, Upper Crustal Earthquakes, *Eos Trans.*

*AGU*, 91(26), West. Pac. Geophys. Meet. Suppl., Abstract T21B-03.

Byrne, T. B., W. Lin, A. Tsutsumi, Y. Yamamoto, **J. Lewis**, K. Kanagawa, Y. Kitamura, A. Yamaguchi, G. Kimura, Anelastic strain recovery in ocean floor sediments reveals extension across SW Japan subduction zone, *Eos Trans. AGU*, 91(26), West. Pac. Geophys. Meet. Suppl., Abstract T34A-04

*Mirakian, D.*, T. Byrne, C. Huang, **J. Lewis**, E. Lamont, J. Crespi, New Evidence for Transform Fault Reactivation in Active and Ancient Orogenic Belts: Central Taiwan and the Taconic Allochthon, *Eos Trans. AGU*, 91(26), West. Pac. Geophys. Meet. Suppl., Abstract T54A-02.

Lamont, E. A., **J. C. Lewis**, T. Byrne, J. M. Crespi, Ruey-Juin Rau, Spatial And Temporal Analysis Of Non-Recoverable Strain Geometry As Documented By The Inversion Of Earthquake Focal Mechanisms In West-Central Taiwan, Geological Society of America *Abstracts with Programs*, Vol. 42, No. 1, p. 87., Paper 22-26, Baltimore, MD.

#### 2009

**Lewis, J. C.**, Crustal extrusion of the hangingwall at the southwestern termination of the Taiwan orogen: Constraints from seismogenic strain inversions, *Eos, Transactions, AGU*, v. 89, no. 53, T53F-01

**Lewis, J. C.**, *invited talk*, Initial Glimpses into the Seismogenic Zone: Nankai Trough Japan, Department of Geology, Dickinson College.

#### 2008

**Lewis, J. C.**, K. Kanagawa, T. Byrne, V. Famin, J. Behrmann, T. Kanamatsu, J. Pares and the Expedition 314/315/316 Scientists, Subhorizontal Extension of the Upper Plate at NantroSEIZE Sites C0001 and C0002, *Eos, Transactions, AGU*, v. 90, no. 53, T31B-2005.

Famin, V., T. Byrne, **J. C. Lewis**, K. Kanagawa, J. Behrmann, Expedition 314/315/316 Scientists, Deformation-induced dehydration structures in the Nankai accretionary prism, *Eos Transactions. AGU*, v. 89, no. 53, T31B-2010.

McDannel, K. T., **J. C. Lewis** (speaker), and W. Montero, Contemporary shearing on the Tucurrique fault: Evidence for an active pull-apart basin at Pejibaye, Costa Rica, IX Central American Geological Congress, San Jose, Costa Rica, June 2 – 4.

**Lewis, J. C.**, *invited talk*, Earthquakes 101: Active and ancient subduction in the circum-Pacific, Department of Geography and Regional Planning, Indiana University of Pennsylvania.

#### 2006

**Lewis, J. C.**, *invited talk*, Where Plates Converge: Subduction and Collision in the Circum-Pacific, Department of Geology and Geography, University of West Virginia.

#### 2005

**Lewis, J. C.**, *invited talk*, Convergent plate boundaries: Natural laboratories for understanding great earthquakes, Sigma Xi Fall Semester Distinguished Lecture, Indiana University of Pennsylvania.

Kodama, K., T. Koyano, T. Byrne, **J. C. Lewis**, and J. Hibbard, Emplacement of a Layered Mafic Intrusion in the Shimanto Accretionary Complex of Southwest Japan: Evidence From Paleomagnetic and Magnetic Fabric Analysis, *Eos, Transactions,*

*AGU*, v. 86, no. 52, T11B-0374.

2004

- Lewis, J. C.** and V. S. Cronin, The case for teaching earthquake focal mechanism solutions in structural geology, Geological Society of America *Abstracts with Programs*, v. 36, no. 5, p. 348.
- Lewis, J. C.**, *invited talk*, The big picture as seen in small strains at the boundaries of small plates, Department of Geology and Planetary Science, University of Pittsburgh.
- Lewis, J. C.**, *invited talk*, Tectonic bulldozing, past and present: Deformation at two plate boundaries, Geoscience Department, Indiana University of Pennsylvania.

2003

- Lewis, J. C.** and C. Pluhar, *invited talk*, What can we Learn From Small Non-Recoverable Strains at Plate Boundaries?, *Eos, Transactions, AGU*, v. 84, no. 46, p. F-1433.
- Lewis, J. C.**, Using seismicity to constrain the geometry of exhumation in a young strike-slip fault zone: Indian Wells Valley to the Coso Range, California, *GSA Abstracts with Programs*, v. 35, no. 6.
- Lewis, J. C.**, C. Pluhar and R. J. Twiss, *invited talk*, Neotectonics and active tectonics of Sierran-North American transtension at Wild Horse Mesa, Geothermal Program Office Technical Meeting, Davis, California.

Pluhar, C. J., R. S. Coe, S. Nomade, J. M. G. Glen and **J. C. Lewis**, Kinematics of the Coso Range Block Rotation from Paleomagnetism, XRF Geochemistry and Ar/Ar Geochronology of Pliocene Lavas Geothermal Program Office Technical Meeting, Davis, California.

2002

- Lewis, J. C.**, Partitioning of seismogenic strain in the offshore Costa Rica forearc, *Eos, Transactions, AGU*, v. 83, no. 47, p. F-1289.
- Lewis, J. C.**, Neotectonics and active tectonics of Sierran-North America transtension, Coso Range, California, *GSA Abstracts with Programs*, v. 34, no 6, p. 488.
- Lewis, J. C.**, *invited talk*, Instantaneous vs. geologic records of deformation: opportunities for discovery at the Cascadia and SW Japan plate boundaries, Department of Geological Sciences, Michigan State University, East Lansing.

**Lewis, J. C.**, R. J. Twiss and J. R. Unruh, Partitioning of seismogenic strain over varying spatial scales at the Sierran-North America plate boundary, *GSA Abstracts with Programs*, v. 34, no. 1, p. A-74.

2001

- Lewis, J. C.** and T. B. Byrne, Snapshots from a Tertiary subduction factory: metamorphic fluids from fault zones of the low-grade Shimanto accretionary prism of southwest Japan, *Eos, Transactions, AGU*, v. 82, no. 47, p. F-1274.
- Lewis, J. C.**, J. R. Unruh and R. J. Twiss, *invited talk*, Partitioning of seismogenic strain along the Sierran-North America boundary in the vicinity of the Coso Range, California, Geothermal Program Office Technical Meeting, Lawrence, Kansas.

2000

**Lewis, J. C.**, J. R. Unruh and R. J. Twiss, Seismogenic strain at the Cascadia convergent margin, Washington and Oregon, *Eos, Transactions, AGU*, v. 81, no. 48, p. F-877.

**Lewis, J. C.**, R. J. Twiss and J. R. Unruh, Fine-scale partitioning of microseismogenic strain along the southeastern margin of the Sierran microplate, Indian Wells Valley, California, *GSA Abstracts with Programs*, v. 32, no. 7, p. A- 166.

1999

**Lewis, J. C.**, T. Byrne and X. M. Tang, Eocene plate kinematics and geometries in the western Pacific basin: Constraints from the SW Japan Margin, *GSA Abstracts with Programs*, v. 31, no. 6, p. A-74.

1998

**Lewis, J. C.** and T. Byrne, Tertiary plate configuration and kinematics in the west central Pacific basin: Constraints from the rock record, *Eos, Transactions, AGU*, v. 79, no. 24, p. W-110.

1994

**Lewis, J. C.** and T. Byrne, Sandstone block dilation during emplacement of a mud-matrix diapir in an accretionary prism, SW Japan, *EOS*, v. 75, no. 44, p. 587.

**Focused Meetings and Workshops (IUP undergraduate students)**

International Ocean Discovery Program *JOIDES/Resolution* Assessment Workshop, September 26-27, 2017, Denver, Colorado.

International Ocean Discovery Program Building U.S. Strategies for 2013-2023 Scientific Ocean Drilling, April 30 – May 2, 2012, Denver, Colorado.

Integrated Ocean Drilling Program New Ventures in Exploring Scientific Targets (INVEST) Workshop, September 23-25, 2009, Bremen, Germany.

NantroSEIZE Stage 1 Post IODP Expedition 314/315/316 Meeting, April 15-18, 2009, Kyoto, Japan.

NSF-MARGINS Workshop *The Next Decade of the Seismogenic Zone Experiment*, September 22-26, 2008, Timberline Lodge, Mt. Hood, Oregon

MARGINS *Workshop to Integrate Subduction Factory and Seismogenic Zone Studies in Central America*, poster presentation with IUP undergraduate student coauthor A. C. Boozer, and A. Lopez and W. Montero: Footwall-hangingwall plate interaction constrained by background seismicity: central Costa Rica, June 2007, Heredia, Costa Rica

Geological Society of America Penrose Conference, *Lessons in Tectonics, Climate and Eustasy from the Stratigraphic Record in Arc Collision Zones*, poster presentation with IUP undergraduate student coauthor A. C. Boozer: Strain Above Subducting Topography: What Do Earthquakes In Costa Rica Tell Us?, October 2005, Price, Utah.

MARGINS Theoretical and Experimental Institute, *The Seismogenic Zone Revisited*, March 2003, Snowbird, Utah.

JOI/USSSP-sponsored Workshop, *An Investigation of the Middle America Convergent Margin Seismogenic Zone*, November 2002, Menlo Park, California. NSF Workshop, *Setting Priorities in Solid Earth Sciences*, October 2002, Denver, Colorado.

NanTroSEIZE Workshop, *Sampling and Instrumenting the Nankai Trough Seismogenic Zone*, July 2002, Boulder, Colorado.

MARGINS Education and Planning Workshop, *Rupturing of the Continental Lithosphere in the Gulf of California/Salton Trough*, October 2000, Puerto Vallarta, Jalisco, Mexico.

MARGINS Theoretical and Experimental Institute, *Rheology and Deformation of the Lithosphere at Continental Margins*, January 2000, Snowbird, Utah.

American Geophysical Union Chapman Conference, *The History and Dynamics of Global Plate Motions*, poster presentation: The relation between plate motions and the rock record: The view from a subduction complex accreted at a coupled plate boundary, June 1997, Marshall, California.

### **Professional Society Membership**

American Geophysical Union

Geological Society of America

Sigma Xi

Phi Kappa Phi

### **ACADEMIC SERVICE**

#### Geoscience Community Development

National Science Foundation Cutting Edge Workshop: “Early Career Geoscience Workshop,” June 12-16, 2011, College of William and Mary, Williamsburg, VA (role: co-leader)

National Science Foundation Cutting Edge Workshop: “Preparing for an Academic Career in the Geosciences: Workshop for Graduate Students and Post-Doctoral Fellows,” March 13, 2010, in conjunction with NE/SE Section GSA Meeting, Baltimore, MD (role: co-leader)

National Science Foundation Cutting Edge Workshop: “Preparing for an Academic Career in the Geosciences: Workshop for Graduate Students and Post-Doctoral Fellows,” July 16-19, 2009, Las Vegas, NV (role: facilitator)

#### Geoscience Community Synergy

Primary session convener, “Preparing for 21st Challenges in Aquatic Sciences” at the June 2018 meeting of the Association for the Sciences of Limnology and Oceanography, Victoria, BC, 11-15 Dec. (co-conveners, S. Cooper, Lamont-Doherty Earth Observatory at Columbia U., B. Jones, NSF, L. Rom, NSF)

Primary session convener, “Diversity in the Geoscience Community: Expansion is Necessary” at the 2017 Fall meeting of the American Geophysical Union, New Orleans, LA, 11-15 Dec. (co-conveners, S. Cooper, Lamont-Doherty Earth Observatory at Columbia U., B. Jones, NSF)

#### International Ocean Discovery Program (formerly Integrated Ocean Drilling Program)

member of the Science Evaluation Panel (SEP) for the International Ocean Discovery Program (Fall 2017 – present)

instructor for the Summer 2017 IODP Subic Bay-Townsville transit School of



Rock – Expanding The Geoscience Pipeline By Connecting Educators With Early Career IODP Scientists” on the drilling vessel *JOIDES/Resolution* (see Funding and Honors for additional details)

member of external advisory board for the NSF (Lewis and Cooper, 2018) funded “Ocean Sciences for Rural Communities via Informal Science Education” project, award #DRL1515856 from the Advancing Informal STEM Learning Program; project includes Pop-Up events with a 40’ inflatable *JOIDES/Resolution* (Fall 2015 – present)

co-organizer and instructor of the Summer 2017 IODP School of Rock on the drilling vessel *JOIDES/Resolution*, supported by the U.S. Science Support Program (at Columbia U.) and workshop funds from the NSF (see Funding and Honors)

instructor for the Summer 2014 IODP School of Rock on the IUP campus (co-instructor S. Hovan, IUP)

instructor for the Summer 2013 IODP Expedition 341S School of Rock on the drilling vessel *JOIDES/Resolution*, invited by the Deep Earth Academy operated by Ocean Leadership (Washington, DC)

instructor for the Summer 2012 IODP Curacao-Bermuda transit School of Rock on the drilling vessel *JOIDES/Resolution*, invited by the Deep Earth Academy operated by Ocean Leadership (Washington, DC)

member of the U.S. Science Advisory Committee (USAC) for the Integrated Ocean Drilling Program, IODP (Fall 2009 – Fall 2012)

#### IUP committee work

member of the University-Wide Promotion Committee (AY 2012-15; 3-year term) Sigma Xi, IUP Chapter Secretary & Treasurer (2006-2007), Vice President (2007-08), President (2008-09 & 2011-12)

chair of the IUP College of Natural Sciences and Mathematics Technology Committee (AY 2007-14, member 2005-present)

member of the IUP College of Natural Sciences and Mathematics Medical/Veterinary School Reference Letter Writing Committee (AY2009-10 – present)

member of the IUP Academic Computing Policy Advisory Committee (2005-2007)

member of the IUP Judicial Review Board (2004-present)

member of IUP Safe Zone (2004-present)

member of exploratory committee examining the viability of a Computation Curriculum in the College of Natural Sciences and Mathematics (2004)

substitute member of the College of Natural Science and Mathematics Student Recruitment Committee (2004-present)

Faculty Advisor, IUP Cycling Club (Fall 2011-present)

Faculty Advisor, IUP Rock Climbing Club (Fall 2015-present)

chair of Geoscience Department *Sedimentary Geology* faculty search committee (AY 2014-15)

chair of Geoscience Department *Energy Geology* faculty search committee (AY 2010-11))

co-chair of Geoscience Department *Sedimentary Geology* faculty search committee (AY 2005-06)

member of the Department Student Outcomes Assessment (2012-Spring 2016)

Geoscience Department outside speaker co-coordinator (2004-Spring 2014)

Geoscience Department Sigma Gamma Epsilon liaison (2005-present)

Geoscience Department Experiential Education coordinator (2004-2008)

Geoscience Department faculty co-advisor for the student Geoscience Club (AY 2004-14)

manuscript review

2017-present (# of manuscripts)

PLOS One (1)

Science Advances (1)

Geology (2)

Geochemistry, Geophysics,  
Geosystems (1)

Tectonophysics (1)

Island Arc (1)

2012-2016 (# of manuscripts)

Geology (3)

Geochemistry, Geophysics,  
Geosystems (3)

Tectonics (2)

Geophysical Research Letters (4)

Geosphere (1)

Earth, Planets, Space (2)

Marine Geophysical Research (1)

Island Arc (1)

2007-2011

Journal of Geophysical Research

Journal of Structural Geology

Bulletin of the Seismological Society of America

Integrated Ocean Drilling Program

Geological Society of America Books

The Island Arc

2004-2007

Nature

Geological Society of America Bulletin

Journal of Metamorphic Geology

Tectonophysics

Gondwana Research

1998-2003

Journal of Geophysical Research  
Geology  
Geological Society of America Bulletin  
Tectonics  
Journal of Structural Geology  
American Geophysical Union, Monograph  
Journal of Metamorphic Geology  
Geological Society of America, Special Paper  
Journal of the Geological Society (London)  
Tectonophysics  
Ocean Drilling Program  
The Island Arc

proposal review

Schmidt Ocean Institute (2014, 2015, 2016)  
National Science Foundation, Integrated Earth Systems panel member (2018)  
National Science Foundation, Tectonics Program mail reviewer (2005-present) (5  
since 2011)  
National Science Foundation, Postdoctoral Fellowship Program (2012)  
Israeli Science Foundation, mail reviewer (2008)  
National Science Foundation, Course, Curriculum, and Laboratory  
Improvement (CCLI) Program Phase I Panel (July 2006)  
Petroleum Research Fund of the American Chemical Society reviewer (2006)