Curriculum Vitae

Jonathan C. Lewis

BACKGROUND

Education

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

2009-present	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	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)
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)
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; lab Fall 2010, 2011, 2012)
GEOS 202 – Quantitative Methods in the Geosciences (lecture/lab, Fall 2009, 2011)
GEOS 302 – Structural Geology (lecture and lab; Spring 2010, 2012)
GEOS 303 – Field Geology (lecture and lab; Fall 2009, 2011)

GEOS 310 – Environmental Geology (lecture and lab, Spring 2005, 2007, 2009, 2011)
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; Spring 2006, 2008; Fall 2010)
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, 3 weeks)

Mentoring

Joy Kiefer (Cook Honors College Student, Senior Research, 2011-present)
Thomas Paronish (Senior Research, 2011-present)
Daniel O'Hara (McNair Scholar & Senior Research, 2009-present, see *Funding and Honors*)
Paul Good (Senior Research, 2010-present)
Mark Smith (Senior Research, 2010-11)
Ellen Lamont (Senior Research, 2009-12)
Anthony LeDonne (McNair Scholar & Senior Research, 2010-11)
Surinder Tara (Senior Research, 2009-10)
Matthew Harding (Senior Research, 2008-12)
Aaron Bowser (Senior Research, 2008-09)
Michael Jarvis (Senior Research, 2007-08)
Kalin McDannell (McNair Scholar & Senior Research, 2007-08, see *Funding and Honors*)
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 21st Century*, Summer 2004, Smith College, Northampton, MA.

SCHOLARLY ACTIVITY

Funding and Honors

2001	IUP USRC Small Grants Program ($1,500): "Modeling Incipient Arc-Continent Collision Offshore SE Taiwan" (role: PI, 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 Jeff 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: PI; collaborators Jean Crespi and Tim Byrne, University of Connecticut)
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 Beverly A. 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, 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, 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 Michael A. Poage)
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 (student authors underlined)

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

2007

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

Abstracts and Invited Presentations (student authors underlined)

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 (student authors underlined)

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 Eustacy 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

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 Research Community

member of the U.S. Science Advisory Committee (USAC) for the Integrated Ocean Drilling Program, IODP (Fall 2009 – present; 3-year term)

IUP committee work

Sigma Xi, IUP Chapter Secretary & Treasurer (2006-2007), Vice President (2007-08), President (2008-09 & 2011-12)

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

Geoscience Department *Sedimentary Geology* faculty search committee co-chair (2006)

Geoscience Department outside speaker coordinator (2004-present)

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 (2004-present)

manuscript review

2011-present

Geochemistry, Geophysics, Geosystems

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

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)

National Science Foundation, Tectonics Program mail reviewer (2005-present)
Israeli Science Foundation, mail reviewer (2008)