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APPOINTMENTS

2020-present	Director, Institute for Geophysics, UT Austin
2020-present	Professor, Dept. Earth & Planetary Sciences, UT Austin
2020-2021	Adjunct Research Professor, Geosciences, Penn State University
2018-2019	Department Head, Geosciences, Penn. State University
2016-2018	Associate Dept. Head for Graduate Programs & Research, Department of Geosciences
2015-2016	Visiting Senior Research Fellow, University of Texas Institute for Geophysics
2012-2019	Professor, Department of Geosciences, Penn. State University
2007-2012	Associate Professor, Department of Geosciences, Penn. State University
2005-2007	Assistant Professor, Department of Geosciences, Penn. State University
2001-2004	Assistant Professor, Department of Geology & Geophysics, University of Wyoming
1999-2001	NRC Research Associate, USGS, Menlo Park, California
1999-2001	Research Fellow, IGPP, University of California Santa Cruz

EDUCATION

1999	PhD, Earth Sciences	University of California, Santa Cruz
1995	B.A., Geology, *summa cum laude*	Williams College

SIGNIFICANT LEADERSHIP ACTIVITIES

2022-present	SZ4D Steering Committee
2022-present	SZ4D Bylaws Committee (2022-2023); Seafloor Cables Committee (Chair, 2022-2023)
2020-present	SZ4D Initiative Working Group; Faulting & Earthquake Cycles (Co-chair, 2022-present)
2016-2020	NSF GeoPRISMS Office and Steering Committee Chair
2018-2019	Co-chief scientist, IODP Expedition 358: Deep Riser Plate Boundary, Nankai Trough
2018	Co-chief scientist, IODP Expedition 375: Hikurangi Subduction Margin
2016	Co-chief scientist, IODP Expedition 365: Nankai Trough Observatories
2013	Co-chief scientist, IODP Expedition 348: NanTroSEIZE Deep Riser Drilling
2012-2014	Water Science Task Force (EMS rep. on 5-member University-wide committee)
2011-2012	Project Management Team: *Japan Trench Fast Earthquake Drilling Project (J-FAST*): rapid response drilling after March 2011 Tohoku Earthquake.
2010-2011	Integrated Ocean Drilling Program renewal: Science plan writing committee (*one of 14 invited authors to represent international community of >600*)
2010	Writing committee, MARGINS Successor Program Science Plan
2009	Co-chief scientist, IODP Expedition #319 (*first riser drilling in IODP*)
2006-present	Specialty Coordinator, Rock Physical Properties, NanTroSEIZE drilling project

HONORS AND AWARDS

2024	UCSC Dept. of Earth & Planetary Sciences "Hall of Fame"
2023	AGU Fellow
2022	Birch Lecture, AGU
2019-present	Scott Petty, Jr. Endowed Chair, Univ. Texas, Austin
2014	Paul F. Robertson Award, Penn State EMS Breakthrough of the Year
2011	The Island Arc Award (best paper award, Wiley Blackwell)
2011	Research Accomplishment Award, Penn State Energy Institute
2010-2011	Consortium for Ocean Leadership Distinguished Lecturer
2009	Friedrich Wilhelm Bessel Research Award, Alexander von Humboldt Foundation

2006	Kavli Fellow; invited participant in 12th annual National Academy of Sciences – Alexander von Humboldt Foundation "Frontiers of Science" symposium.
2006	Senior Fellow, Geological Society of America
2005	Donath Medalist (Geological Society of America's young scientist award)
2004	Invited, Joint DFG-NSF Conference for outstanding young researchers, Wash. DC
1999-2001	National Research Council Postdoctoral Associateship
1998-1999	Teaching Assistant of the Year, Campus-wide award, U.C. Santa Cruz
1998-1999	Teaching Assistant of the Year, Earth Sciences Board, U.C. Santa Cruz
1995	National Science Foundation Graduate Fellowship
1995	David N. Major Prize in Geology, Williams College
1995	Geological Society of America, Outstanding Student Presentation

RESEARCH INTERESTS

Subseafloor instrumentation
Role of fluids in fault and earthquake mechanics
Geomechanics; coupled deformation and fluid flow
Regional scale fluid, solute, and heat transport

COURSES TAUGHT

The University of Texas:

GEO191:	Geomechanics (co-taught)
GEO291:	Subduction Geomechanics (graduate seminar; co-taught)

The Pennsylvania State University:

GEOSC 440:	Marine Geology (upper level Undergraduate course)
GEOSC 452:	Hydrogeology (upper level Undergraduate course)
GEOSC 542:	Groundwater Modeling (Graduate lecture course)
GEOSC 597:	Techniques in Experimental Rock Mechanics (Graduate course; co-taught)
GEOSC 597/598:	Various Geomechanics/Subduction Zones Seminars (Graduate seminars)
EARTH 111/111-U:	Water: Science and Society (General education; co-taught)

University of Wyoming:

GEOL 5200:	Crustal Geomechanics: Faults, Fracture, and Fluids (Graduate course)
GEOL 4200:	Fluids in Geologic Processes (Graduate course)
GEOL 4444/5444:	Geohydrology (Undergraduate course)
GEOL 1070:	The Earth: Its Physical Environment (Gen-ed course for education students)

PUBLICATIONS AND PAPERS IN PRESS (PEER-REVIEWED)

§ *Primary advisor for student or post-doctoral first author*
‡ *Co-advisor for student or post-doctoral first author*
# *Advisor/Co-advisor for student or post-doctoral first author's work specific to the publication*
* *Student or postdoctoral lead author*

172) §Schaible, K.E., **Saffer, D.M.**, and Finnegan, N.J. (2025), Rheological controls on creeping landslides within the Franciscan mélange: Insights from laboratory experiments, *Geophys. Res. Lett.*, 52, e2025GL118770, doi.org:10.1029/2025GL118770

171) §Edgington, J.E., **Saffer, D.M.**, and Williams, C. (2025), Migrating shallow slow slip on the Nankai Trough megathrust, captured by borehole observatories, *Science,* 368, 1396-1400, doi:10.1126/science.ads9715 (***corresponding author***).

170) §Schaible, K. E., **Saffer, D. M.** (2025), State of stress across major faults in the Nankai subduction zone estimated from wellbore breakouts, *J. Geophys. Res.*, 130, e2024JB030242, https://doi.org/10.1029/2024JB030242 (***JGR editor's highlight***).

169) ‡Bolton, D. C., Shreedharan, S., **Saffer, D.**, & Trugman, D. T. (2025), The roles of shear displacement and normal stress on earthquake nucleation in meter-scale laboratory faults, *J. Geophys. Res.*, 130, e2025JB031696, doi.org/10.1029/2025JB031696.

168) Wang, M., Barnes, P., **Saffer, D.**, Moore. G.F., Ma, H., Wang, M., and Su, J. (2025), Effects of incoming polygonal fault systems on subduction zone and slow slip behavior, *Science Advances,* 11, eadu4227, doi:10.1126/sciadv.adu4227

167) Skarbek, R.M**., Saffer, D.M.**, and Savage, H.M. (2025), Not all heterogeneity is equal: Length scale of frictional property variation as a control on subduction megathrust sliding behavior, *Geophys. Res. Lett.*, 52, e2025GL115738, doi: 10.1029/2025GL115738.

166) Pecher, I.A., Cook, A.E., Solomon, E.A., Wang, X., Han, S., Paganoni, M., Luo, M. Heeschen, K.U., McNamara, D.D., Nole, M., LeVay, L., Petronotis, K., Barnes, P., Wallace, L.M., and **Saffer, D.M.** (2025), Dissociating gas hydrate beneath the hydrate stability zone, *Geophys. Res. Lett.*, 52, e2024GL112200, https://doi.org/10.1029/2024GL112200.

165) Henrys, S., Bassett, D., Ellis, S., Wallace, L., Barnes, P.M., Eberhart-Phillips, D., **Saffer, D.M.**, & Boulton, C. (2025), How subduction margin processes and properties influence the Hikurangi Subduction Zone, *Annual Rev. Earth Planet. Sci.*, 53, doi: 10.1146/annurev-earth-040523-115520.

164) Finnegan, N.J. and **D.M. Saffer** (2024), Seasonal slow slip in landslides as a window into the frictional rheology of creeping shear zones, *Science Advances,* 10, eadq9399, doi:10.1126/sciadv.adq9399.

163) *Lopez-Campos, G., Nikolinakou, M.A., Flemings, P.B., and **D.M. Saffer** (2024), Stress Distribution in Accreting Sediments: A Geomechanical Study of Upper-Plate Faults, 58th U.S. Rock Mechanics/Geomechanics Symposium, doi: https://doi.org/10.56952/ARMA-2024-0708.

162) Ariyoshi, K., Nagano, A., Hasegawa, T., Iinuma, T., Nakano, M., **Saffer, D.M.**, Matsumoto, H., Yada, S., Araki, E., Takahashi, N., Hori, T., & Kodaira, S. (2024), A physical explanation for an unusually long-duration slow slip event in the Nankai Trough, *Tectonophysics*, 887, https://doi.org/10.1016/j.tecto.2024.230439.

161) §Shreedharan, S., **Saffer, D.M.**, Wallace, L.M., & Williams, C. (2023), Ultralow frictional healing explains recurring slow slip events, *Science*, 379, doi:10.1126/science.adf4930 **(*corresponding author*)**.

160) §Jahn, K.L., **Saffer, D.M.**, Freeman, K.H., & Lincoln, S.A. (2023), Storage, transport, and fate of perfluoroalkyl acids (PFAAs) in a wastewater reuse and groundwater recharge system, *Water Resources Research* 59, e2022WR034321, https://doi.org/10.1029/2022WR034321.

159) §Seyler, C.E., Shreedharan, S., **Saffer, D.M.**, & Marone, C. (2023), The role of clay in limiting frictional healing in fault gouges, *Geophysical Research Letters*, 50, e2023GL104984, https://doi.org/10.1029/2023GL104984.

158) ‡Bolton, C., Marone, C., **Saffer, D.M.**, & Trugman, D. (2023), Foreshock properties illuminate nucleation processes of slow and fast laboratory earthquakes, *Nature Communications* 14, 3859, https://doi.org/10.1038/s41467-023-39399-0.

157) *Gase, A., Bangs, N.L., **Saffer, D.M.**, Han, S., Miller, P.K., Bell, R.E., Arai, R., Henrys, S.A., Kodaira, S., Davy, R., Frahm, L., Barker, D.H.N. (2023), Subducting volcaniclastic-rich upper crust supplies fluids for shallow megathrust and slow slip, *Science Advances* 9, eadh0150(2023), doi:10.1126/sciadv.adh0150.

156) §den Hartog, S.A.M., Marone, C., & **Saffer, D.M.** (2023), Frictional behavior downdip along the subduction megathrust: Insights from laboratory experiments on exhumed samples at in situ conditions, *J. Geophys. Res.*, 128, e2022JB024435, https://doi.org/10.1029/2022JB024435.

155) §Jahn, K.L., Lincoln, S.A., Freeman, K.H. and **Saffer, D.M.** (2023), Preferential Retention and Transport of Perfluorooctanesulfonic Acid in a Dolomite Aquifer, *Groundwater*, https://doi.org/10.1111/gwat .13255.

154) Cheng, Y., Lockner, D., Duda, M., Morrow, C., **Saffer, D.**, Song, I., & Renner, J. (2023), Interlaboratory comparison of testing hydraulic, elastic, and failure properties in compression: lessons learned, *Environ Earth Sci,* 82, 509, https://doi.org/10.1007/s12665-023-11173-x.

153) Nikolinakou, M.A., Flemings, P.B., Gao, B., & **Saffer, D.M.** (2023), The evolution of pore pressure, stress, and physical properties during sediment accretion at subduction zones, *J. Geophys. Res.* 128, e2022JB025504, https://doi.org/10.1029/2022JB025504.

152) Wang, M., Barnes, P.M., Morgan, J.K., Bell, R.E., Moore, G.F., Wang, M., Fagereng, A., Savage, H., Gamboa, D., Harris, R.N., Henrys, S., Mountjoy, J., Tréhu, A.M., **Saffer, D.M.**, Wallace, L.M., Petronotis, K. (2023), Compactive deformation of incoming calcareous pelagic sediments, northern Hikurangi subduction margin, New Zealand: Implications for subduction processes, *Earth Planet. Sci.* Lett., 605, https://doi.org/10.1016/j.epsl.2023.118022.

151) Tobin, H.J., **Saffer, D.M.**, Castillo, D., Hirose, T. (2022), Direct constraints on in situ stress state from deep drilling into the Nankai subduction zone, *Geology*, 50, https://doi.org/10.1130/G49639.1.

150) [#]Shreedharan, S., Ikari, M., Wood, C., **Saffer, D.**, Wallace, L., & Marone, C. (2022), Frictional and lithological controls on shallow slow slip at the northern Hikurangi margin, *Geochemistry, Geophysics, Geosystems*, 23, e2021GC010107. https://doi. org/10.1029/2021GC010107.

149) Woodhouse, A., Barnes, P.M., Shorrock, A., Strachan, L.J., Crundwell, M., Bostock, H.C., Hopkins, J., Kutterolf, S., Pank, K., Behrens, E., Greve, A., Bell, R., Cook, A., Petronotis, K., LeVay, L, Jamieson, R.A., Aze, T., Wallace, L., **Saffer, D.M.**, & Pecher, I. (2022), Trench floor depositional response to glacio-eustatic changes over the last 45 ka, northern Hikurangi subduction margin, New Zealand, *New Zealand Journal of Geology and Geophysics*, doi:10.1080/00288306.2022.2099432.

148) Kimura, G., Hamada, Y., Yabe, S., Yamaguchi, A., Fukuchi, R., Kido, Y., Maeda, L., Toczko, S., Okuda, H., Ogawa, N., Morioka, H., Ujiie, K., **Saffer, D.M.** (2022), Deformation process and mechanism of the frontal megathrust at the Nankai subduction zone, *Geochem., Geophys., Geosyst.*, 23, e2021GC009855. https://doi.org/10.1029/2021GC009855.

147) [*]Woods, K., Webb, S.C., Wallace, L.M., Ito, Y., Collins, C., Palmer, N., Hino, R., Savage, M.K., **Saffer, D.M.**, Davis, E.E., Barker, D.H.N. (2022), Using seafloor geodesy to detect vertical deformation at the Hikurangi subduction zone: Insights from self-calibrating pressure sensors and ocean general circulation models, *J. Geophys. Res.*, 127, e2022JB023989, https://doi.org/10.1029/2022JB023989.

146) Morgan, J.K., Solomon, E.A., Fagereng, A., Savage, H.M., Wang, M., Meneghini, F., Barnes, P.M., Bell, R.E., French, M.E., Bangs, N.L., Kitajima, H., **Saffer, D.M.**, Wallace, L.M. (2022), Seafloor overthrusting causes ductile fault deformation and fault sealing along the Northern Hikurangi Margin, *Earth Planet. Sci. Lett.*, 593, https://doi.org/10.1016/j.epsl.2022.117651.

145) [*]Behboudi, E., McNamara, D.D., Lokmer, I., Wallace, L.M., & **Saffer, D.M.** (2022). Spatial variation of shallow stress orientation along the Hikurangi Subduction Margin: Insights from in-situ borehole image logging, *Journal of Geophysical Research: Solid Earth*, 127, e2021JB023641, https://doi.org/10.1029/2021JB023641.

144) [§]Miller, P.K., **Saffer, D.M.**, Abers, G.A., Shillington, D. J., Bécel, A., Li, J., & Bate, C. (2021). P- and S-wave velocities of exhumed metasediments from the Alaskan subduction zone: Implications for the *in situ* conditions along the megathrust, *Geophysical Research Letters*, *48*, e2021GL094511, https://doi. org/10.1029/2021GL094511. [*Editor's Research Spotlight in EOS*]

143) Savage, H. M., Shreedharan, S., Fagereng, Å., Morgan, J. K., Meneghini, F., Wang, M., McNamara, D., Wallace, L.M., **Saffer, D.M.**, Barnes, P.M., Petronotis, K.E., LeVay, L.J., (2021), Asymmetric brittle deformation at the Pāpaku fault, Hikurangi subduction margin, NZ, IODP Expedition 375, *Geochem., Geophys., Geosyst.*, *22*, e2021GC009662, https://doi. org/10.1029/2021GC009662.

142) McNamara, D. D., Behboudi, E. , Wallace, L. , **Saffer, D.** , Cook, A. E. , Fagereng, A. , Paganoni, M. , Hung-Yu, W. , Kim, G. , Lee, H. , Savage, H. M. , Barnes, P. , Pecher, I. , LeVay, L. J. , Petronotis,

K. E. (2021), Variable in-situ stress orientations across the northern Hikurangi Subduction Margin, *Geophys. Res. Lett*., *48*, e2020GL091707, https://doi. org/10.1029/2020GL091707.

141) §Miller, P.K., Marone, C., **Saffer, D.M.** (2020). The role of deformation bands in dictating poromechanical properties of unconsolidated sand and sandstone. *Geochem., Geophys., Geosyst.*, 21, e2020GC009143, https://doi.org/10.1029/2020GC009143.

140) ‡Im, K., **Saffer, D.M.**, Marone, C., Avouac, J-P. (2020), Slip-rate-dependent friction as a universal mechanism for slow slip events, *Nature Geoscience*, doi: 10.1038/s41561-020-0627-9

139) §Sun, T., **Saffer, D.M.**, Ellis, S. (2020), Mechanical and hydrological effects of seamount subduction on megathrust stress and slip, *Nature Geoscience, 13***,** 249–255, doi: 10.1038/s41561-020-0542-0.

138) Barnes, P.M., Wallace, L.M., **Saffer, D.M.**, et al. (2020), Slow slip source characterized by lithological and geometric heterogeneity, *Sci. Adv.,* 6, 10.1126/sciadv.aay3314.

137) §Kenigsberg, A.R., J. Rivière, C. Marone, **D.M. Saffer** (2020), A method for determining absolute ultrasonic velocities and elastic properties of experimental shear zones, *Int. Jour. Rock Mech. Mining Sci.*, 130, doi: 10.1016/j.ijrmms.2020.104306.

136) §Sun, T., Ellis, S., **Saffer, D.M.** (2020), Coupled Evolution of Deformation, Pore Fluid Pressure, and Fluid Flow in Subduction Forearcs, *J. Geophys. Res*., *125*, e2019JB019101, doi: 10.1029/2019JB019101.

135) Cook, A. E., Paganoni, M., Clennell, M. B., McNamara, D. D., Nole, M., Wang, X., Han, S., Bell, R.E., Solomon, E.A., **Saffer, D.M.**, et al. (2020), Physical properties and gas hydrate at a near-seafloor thrust fault, Hikurangi Margin, New Zealand, *Geophys. Res. Lett., 47*, e2020GL088474, doi: 10.1029/2020GL088474

134) §Kenigsberg, A.R., Rivière, J., Marone, C., **Saffer, D.M.**, (2020) Evolution of Elastic and Mechanical Properties during Fault Shear: The Roles of Clay Content, Fabric Development, and Porosity, *J. Geophys. Res.*, *125*, e2019JB018612, doi: 10.1029/2019JB018612.

133) #Rösner, A. Ikari, M.J., **Saffer, D.M.**, Stanislowski, K, Eijsink, A.M., Kopf, A.J. (2020), Friction experiments under in-situ stress reveals unexpected velocity-weakening in Nankai accretionary prism samples, *Earth Planet. Sci. Lett., 538,* 116180, doi: 10.1016/j.epsl.2020.116180.

132) Ikari, M., Wilckens, F.K., **Saffer, D.M.** (2020), Implications of Basement Rock Alteration in the Nankai Trough, Japan for Subduction Megathrust Slip Behavior, *Tectonophys.,* 774, doi: 10.1016/j.tecto.2019.228275.

131) §Kenigsberg, A.R., Riviére, J., Marone, C., **Saffer, D.M.** (2019)**,** The Effects of Shear Strain, Fabric, and Porosity Evolution on Elastic and Mechanical Properties of Clay-Rich Fault Gouge, *J. Geophys. Res.*, doi:10.1029/2019JB017944

130) §Valdez, R.D., Kitajima, H., **Saffer, D.** (2019), Effects of temperature on the frictional behavior of material from the Alpine Fault Zone, New Zealand, *Tectonophys.*, 762, 17-27, doi: 10.1016/j.tecto.2019.04.022.

129) Fagereng, A., Savage, H.M., Morgan, J.K., Wang, M., Meneghini, F., Barnes, P.M., Bell, R., Kitajima, H., McNamara, D.D., **Saffer, D.M.**, Wallace, L.M., Petronotis, K., LeVay, L., and the IODP Expedition 372/375 Scientists (2019), Mixed deformation styles observed on a shallow subduction thrust, Hikurangi margin, New Zealand, *Geology*, doi.:10.1130/G46367.1

128) Brodsky, E.E., James J Mori, Louise Anderson, Frederick M Chester, Marianne Conin, Eric M Dunham, Nobu Eguchi, Patrick M Fulton, Ryota Hino, Takehiro Hirose, Matt J Ikari, Tsuyoshi Ishikawa, Tamara Jeppson, Yasuyuki Kano, James Kirkpatrick, Shuichi Kodaira, Weiren Lin, Yasuyuki Nakamura, Hannah S Rabinowitz, Christine Regalla, Francesca Remitti, Christie Rowe, **Demian M Saffer**, Saneatsu Saito, James Sample, Yoshinori Sanada, Heather M Savage, Tianhaozhe Sun, Sean Toczko, Kohtaro Ujiie, Monica Wolfson-Schwehr, Tao Yang (2019), The state of stress on the fault before, during, and after a major earthquake, *Annual Review of Earth & Planetary Sciences, 48*, doi: 10.1146/annurev-earth-053018-060507.

127) §Kinoshita, C., **Saffer, D.** (2018), In situ permeability and scale dependence of an active accretionary prism determined from cross-borehole experiments, *Geophys. Res. Lett.*, 45, doi:10.1029/ 2018GL078304.

126) ‡Leeman, J.R., Marone, C., **Saffer, D.M.** (2018), Frictional mechanics of slow earthquakes, *J. Geophys. Res.*, 123, doi:10.1029/2018JB015768.

125) #Gao, B., Flemings, P.B., Nikolinakou, M.A., **Saffer, D.M.**, Heidari, M. (2018), Mechanics of fold-and-thrust**s** belts based on geomechanical modeling. *J. Geophys. Res*, *123*. doi:10.1029/ 2018JB015434.

124) Machida, Y., Araki, E., Kimura, T., **Saffer, D.M.**, Saruhashi, T., Yokoyama, T., & Sakurai, N. (2018). Installation of a high sensitivity ocean borehole strainmeter in the Nankai trough under severe sea current conditions, *Marine Technology Society Journal*, *52*, 128-137. doi:10.4031/MTSJ.52.3.2.

123) *Li, J., Shillington, D.J., **Saffer, D.M.**, Bécel, A., Nedimović, M., Kuehn, H., Webb, S., Keranen, K., G. Abers (2018), Connections between subducted sediment, pore-fluid pressure, and earthquake behavior along the Alaska megathrust, *Geology*, 46, p. 299-302, doi:10.1130/G39557.1

122) §Kinoshita, C., **Saffer, D.M.,** Kopf, A. Rösner, L. M. Wallace, E. Araki, T. Kimura, Y. Machida, R. Kobayashi, E. Davis, S. Toczko, S. Carr (2018), Changes in physical properties of the Nankai Trough megasplay fault induced by earthquakes, detected by continuous pressure monitoring, *J. Geophys. Res.*, 123. doi:10.1002/ 2017JB014924

121) Flemings, P.B., **Saffer, D.M.** (2018), Pressure and Stress Prediction in the Nankai Accretionary Prism: A Critical State Soil Mechanics and Porosity-based approach, *J. Geophys. Res.,* 23. doi:10.1002/2017JB015025

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118) #Han, S., Nathan Bangs, S. Carbotte, **D.M. Saffer**, and J. Gibson (2017), Links Between Sediment Consolidation and Cascadia Megathrust Slip Behavior, *Nature Geoscience,* 10, 954–959, doi:10.1038/s41561-017-0007-2.

117) §Kitajima , H., **D.M. Saffer**, H. Sone, H. Tobin, T. Hirose (2017), In-situ stress and pore pressure in the deep interior of the Nankai accretionary prism, IODP Site C0002, *Geophys. Res. Lett*., 44, doi:10.1002/2017GL075127.

116) §Lauer R.M., **D.M. Saffer**, and R.N. Harris (2017), Links between clay transformation and earthquakes along the Costa Rican subduction margin, *Geophys. Res. Lett.*, 44, 7725–7732, doi:10.1002/2017GL073744.

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112) Bécel, A., Shillington, D. J., Delescluse, M., Nedimović, M.R., Abers, G.A., **Saffer, D.M.**, Kuehn, H. (2017), Tsunamigenic structures in a creeping section of the Alaska subduction zone, *Nature Geoscience*, 10, 609-613, doi:10.1038/ngeo2990.

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BOOKS, EDITED VOLUMES, AND OTHER PUBLICATIONS & REPORTS

29) GeoPRISMS: 10 Years – The People, The Science (2021), *GeoPRISMS Newsletter, 43, Final Issue*, **Saffer, D.M.**, Ferot, A. (Eds.), 154 pp., Penn State Univ.

28) Tobin, H., Hirose, T., Ikari, M., Kanagawa, K., Kimura, G., Kinoshita, M., Kitajima, H., **Saffer, D.**, Yamaguchi, A. Eguchi, N., Maeda, L., Toczko, S., and the Expedition 358 Scientists, 2020. *NanTroSEIZE Plate Boundary Deep Riser 4: Nankai Seismogenic/Slow Slip Megathrust.* Proceedings of the International Ocean Discovery Program, 358: College Station, TX (International Ocean Discovery Program). https://doi.org/10.14379/iodp.proc.358.2020

27) Wallace, L.M., **Saffer, D.M.**, Barnes, P.M., Pecher, I.A., Petronotis, K.E., LeVay, L.J., and the Expedition 372/375 Scientists (2019). *Hikurangi Subduction Margin Coring, Logging, and Observatories*. Proceedings of the International Ocean Discovery Program, 372B/375: College Station, TX (International Ocean Discovery Program), doi:10.14379/iodp.proc.372B375.2019

26) Wallace, L.M., Ikari, M.J., **Saffer, D.M.**, Kitajima, H., Slow Motion Earthquakes, *Oceanography*, 32, 106-118.

25) **Saffer, D.M.**, Wallace, L.M., Petronotis, K., and the Expedition 375 Scientists (2018), *Expedition 375 Preliminary Report: Hikurangi Subduction Margin Coring and Observatories*, International Ocean Discovery Program, https://doi.org/10.14379/iodp.pr.375.2018, 38 pp.

24) **Saffer, D**., Kopf, A., Toczko, S., and the Expedition 365 Scientists (2017), *NanTroSEIZE Stage 3: Shallow Megasplay Long-Term Borehole Monitoring System*. Proceedings of the International Ocean Discovery Program, 365: College Station, TX (International Ocean Discovery Program). https://doi.org/ 10.14379/ iodp.proc.365.2017, 99 pp.

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21) Harris, R., Wallace, L., Webb, S., Ito, Y., Mochizuki, K., Ichihara, H., Henrys, S., Tréhu, A., Schwartz, S., Sheehan, A., **Saffer, D**., and Lauer, R. (2016), Recent Offshore Investigations Study Shallow Slow Slip at the Hikurangi Margin, New Zealand, *Eos,* 97, doi:10.1029/2016EO048945.

20) X. Li, Z. Feng, G. Han, D. Elsworth, C. Marone, **D. Saffer** (2015), Hydraulic Fracturing in Shale with H_2O, CO_2 and N_2, 49th US Rock Mechanics/Geomechanics Symposium, San Francisco, CA, ARMA-2015-786.

19) Kopf, A., **Saffer, D**., and Toczko, S. (2015), *Expedition 365 Scientific Prospectus: NanTroSEIZE Stage 3: shallow megasplay long-term borehole monitoring system (LTBMS)*. International Ocean Discovery Program. http://dx.doi.org/ 10.14379/ iodp.sp.365.2015.

18) Tobin, H., Hirose, T., **Saffer, D**., Toczko, S., Maeda, L., Kubo, Y., and the Expedition 348 Scientists (2015), *Proc. IODP,* 348: College Station, TX (Integrated Ocean Drilling Program), doi:10.2204/ iodp.proc.348.2015

17) §Song, I., **Saffer, D.M.**, and Flemings, P.B. (2013), Stress state in slope sediments above a major splay fault in the Nankai accretionary complex, SW Honshu, 6th International Symposium on In Situ Rock Stress, Sendai, Japan, 8 pp.

16) §Olcott, K.A., and **Saffer D.M.** (2013), Laboratory measurements of rock strength: Implications for estimating in situ stress from wellbore failures in shallow marine mudstones, 6th International Symposium on In Situ Rock Stress, Sendai, Japan, 15 pp.

15) Hirose, T., **Saffer, D.M.**, Tobin, H.J., et al. (2013), Integrated Ocean Drilling Program Expedition 348 Prospectus: NanTroSEIZE Stage 3: Plate Boundary Deep Riser 3, IODP Sci. Prosp., 348. doi:10.2204/iodp.sp.348.2013

14) **Saffer, D.**, McNeill, L., Byrne, T., Araki, E., Toczko, S., Eguchi, N., Takahashi, K., and the Expedition 319 Scientists (2010), *Proc. IODP, 319*: Tokyo (Integrated Ocean Drilling Program Management International, Inc.). doi:10.2204/iodp.proc.319.2010, 388 pp.

13) **Saffer, D.M.**, McNiell, L., Araki, E., Byrne, T., Eguchi, N., Toczko, S., Takahashi, K., and the Expedition 319 Scientists (2009), NanTroSEIZE Stage 2: NanTroSEIZE riser/riserless observatory. *IODP Prel. Rept.*, 319, doi:10.2204/iodp.pr.319.2009, 82 pp.

12) E.E. Brodsky, Kuo-Fong Ma, Jim Mori, **D.M. Saffer**, and the participants of the ICDP/SCEC International Workshop (2009), Rapid Response Drilling: Past, Present, and Future, *Scientific Drilling*, doi:10.2204/iodp.sd.8.11.2009

11) ‡Carpenter, B.M., Marone, C., and **Saffer, D.M.** (2009), *Featured Science*: Insights into frictional behavior of materials in and near SAFOD, *Earthscope OnSite Newsletter*.

10) Brodsky, E.E., Ma, K-F., Mori, J., and **Saffer, D.M**. (2009), Rapid Response Fault Drilling: Past, Present, and Future, *ICDP workshop report*, 30 pp.

9) Araki, E., Byrne, T., McNeill, L., **Saffer, D**., Eguchi, N., Takahashi, K., and Toczko, S. (2009), NanTroSEIZE Stage 2: NanTroSEIZE riser/riserless observatory, *IODP Sci. Prosp.,* 319. doi:10.2204/iodp.sp.319.2009.

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7) Morgan, J., Screaton, E.J., with advice from N. Bangs, **D. Saffer**, and S. Bilek (2008), The SEIZE Initiative: Status and Future Directions, MARGINS Newsletter #20.

6) Tobin, H., Kinoshita, M., Underwood, M., Kimura, G., **Saffer, D.**, Screaton, E., and Moore, G. (2006), NanTroSEIZE: IODP's First Complex Drilling Project, *JOI Newsletter*.

5) **Saffer, D.M**. (2004), Surface water hydrology and shallow groundwater effects of coalbed methane development, upper Beaver drainage, Powder River Basin, WY, report to Western Resources Project Foundation, 40 pp.

4) Harris, R.N., D.S. Chapman, K.P. Furlong, **D.M. Saffer** (2004), Thermal processes in the context of EarthScope, *EOS, 85*, 292.

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FUNDING HISTORY

2025-2026: US Science Support Program: Mechanical Strength of the Frontal Thrust and Input Sediments at the Japan Trench, $20,000.

2024-2025: US Science Support Program: In situ stress at subduction zones from borehole breakouts: The role of sediment rheology (PhD student Kaitlin Schaible, Schlanger Fellowship), $30,000.

2024-2025: US Science Support Program: Participation of Kaitlin Schaible on IODP Expedition 405, $27,411.

2023-2026: National Science Foundation, EAR-Geophysics: Collaborative Research**:** Subduction Megathrust Rheology: The Combined Roles of On- and Off-Fault Processes in Controlling Fault Slip Behavior**,** $272,664, *Lead PI at UT*.

2022-2025: National Science Foundation, OCE-MG&G: Collaborative Research: Unraveling the habitat and dynamics of slow slip events through integrated borehole observations in the northern Hikurangi subduction margin, $467,000, *Co-I with L. Wallace, UT as lead institution*.

2021-2025: National Science Foundation, EAR-Geophysics: Collaborative Research: The role of subducting seamounts in fault stability and slip behavior throughout the seismic cycle, $167,000, *Lead PI at UT*.

2021-2025: National Science Foundation, EAR-Petrology & Geochemistry: Collaborative Research: Behavior of Boron During Prograde Diagenesis and Metamorphism of Pelagic Sediments from the Nankai Trough, $192,000, *Lead PI at UT*.

2021-2025: National Science Foundation, EAR-Geophysics: Impact of upper-plate splay faults on accreting-sediment stress state and on megathrust strength and fluid budgets, $292,000, *Co-I with M. Nikolinakou & P. Flemings*.

2019-2023: US Science Support Program: Mechanical strength of sediments from the frontal thrust region of the Nankai Trough: Toward estimating in situ stress magnitude, $18,000, *Sole PI*.

2019-2021: Wastewater Management Council, PSU: Fate and Transport of Poly- and Perfluoroalkyl substances (PFAS) in the Living Filter vadose zone, $47,833, *Lead PI.*

2018-2023: US Science Support Program: Expedition 358 Chief Scientist Support, $119,600, *Sole PI.*

2018-2023: US Science Support Program: Expedition 375 Chief Scientist Support, $162,990, *Sole PI.*

2018-2020: US Science Support Program: Laboratory measurement of elastic wavespeeds and permeability of fault rocks and subduction inputs: Hikurangi Subduction Margin, $17,998, *Sole PI.*

2018-2019: US Science Support Program: Studying the locking and shallow slow slip of the Nankai subduction fault by jointly investigating borehole fluid pressure and seafloor GPS observations, $17,986, *Sole PI* (***proposal written by T. Sun, advised by Saffer).***

2017-2020: Penn State OPP/Environmental Health & Safety: Controls on the Transport, Storage, and Fate of PFOA and PFOS at the Penn State Fire Training Site, $110,000, *Lead PI, with K. Freeman, T. Russo, L. Kump.*

2017-2018: National Science Foundation, SBIR: SBIR Phase I: Development and testing of a dry fracture technique to reduce water use and increase life cycle yield in oil and gas extraction, $300,000 ($75,000 Penn State Budget), *co-I with C. Marone, D. Elsworth*.

2016-2022: National Science Foundation, Integrated Earth Systems: Collaborative Research: Controls on along-strike variations in locked and creeping megathrust behavior at the Hikurangi convergent margin, $369,723, *Sole PI at Penn State.*

2016-2020: National Science Foundation, GeoPRISMS: GeoPRISMS Office Support, $1,446,000 ($1,280,000 primary; $166,000 supplement), *Sole PI*.

2016-2017: US Science Support Program: Analysis of formation pressure data to investigate slow slip events in the Nankai Trough, $15,000, *Sole PI*.

2016-2021: US Science Support Program: Expedition 365 Chief Scientist Support, $145,495, *Sole PI.*

2015-2022: National Science Foundation, OCE-MGG: Collaborative Research: Unlocking the secrets of slow slip by drilling at the northern Hikurangi subduction margin, New Zealand: CORK observatory development and installation, PSU budget $72,168, *Sole PI at Penn State.*

2014-2018: National Science Foundation, GeoPRISMS: Collaborative Research: The Aleutian megathrust from trench to base of the seismogenic zone; integration and synthesis of laboratory, geophysical and geological data, PSU budget $193,388, *Lead PI.*

2014-2015: National Science Foundation, GeoPRISMS: GeoPRISMS Post-Doctoral Fellowship Research: Runaway slip: understanding nucleation of subduction megathrust earthquakes and slow slip precursors, $110,000 *(proposal written by S. den Hartog, advised by Saffer & Marone)*.

2014-2015: Saudi Aramco, Aramco Services Company: Permeability evolution of fluid driven and propped fractures in shale, $94,684, *Co-I with D. Elsworth and C. Marone.*

2014-2015: Consortium for Ocean Leadership: New insights into the mechanical and hydraulic properties of the deep interior of the Nankai accretionary prism, $15,000, *Sole PI.*

2014-2015: Consortium for Ocean Leadership, Triaxial Strength and Deformation Experiments on Core samples from the Inner Wedge, Expedition #348, $15,000, *Sole PI.*

2013-2015: National Science Foundation, International Programs: US-Italy Collaboration: Determination of Boron Isotope Ratios in Subducted Sediments, $30,538, *Co-I with M. Feineman.*

2013-2014: National Science Foundation, OCE-Ocean Drilling: Subseafloor Observatory Science in the Nankai Trough: Analysis of Earthquakes and Hydraulic Transients, and Installation of a Community Borehole Facility, $83,368, *Sole PI*.

2013-2014: Consortium for Ocean Leadership: Expedition 348 Chief Scientist Support, $108,508, *Sole PI.*

2013-2015: Consortium for Ocean Leadership: High stress consolidation, ultrasonic, and permeability measurements: Constraints on physical properties and in situ stress along the Costa Rica Plate Interface, Expedition 344 post-cruise research, $14,500, *Sole PI.*

2013-2015: Consortium for Ocean Leadership: Laboratory measurements of rock mechanical properties on core from Sites C0002 and C0022, Expedition 338 post-cruise research, $15,000, *Sole PI.*

2013-2015: Consortium for Ocean Leadership: Expedition 338 support for Katelyn Olcott, $6,417, *Sole PI.*

2012-2015: National Science Foundation, EAR-Geophysics: Collaborative Research: Physical properties of the Alpine Fault, New Zealand: Mechanical and hydrological processes in the brittle fault core and surrounding damage zone, PSU budget $316,000, *Lead PI at Penn State.*

2011-2012: National Science Foundation, MARGINS: MARGINS Post-Doctoral Fellowship Research: Evolution of Sediment Physical Properties in the Nankai Subduction Zone and Implications for the Updip Limit of Seismogenesis, PSU budget $165,864, *Lead PI (proposal written by H. Kitajima, advised by Saffer & Marone)*.

2011-2014: Consortium for Ocean Leadership: Pore pressure analysis to estimate hydraulic parameters and evaluate the role of aseismic pressure transients in the seismic cycle: IODP Expedition 332, $14,650, *Sole PI*

2011-2014: Consortium for Ocean Leadership: Analysis of Observatory Data from IODP Sites C0010 and C0002: IODP Expedition 332, $15,000, *Sole PI.*

2011-2012: National Science Foundation, Integrated Ocean Drilling Program: Collaborative Research: Development of a long-term hydrologic observatory above the seismogenic zone offshore the Kii peninsula, $47,322 (supplement to existing award), *Lead PI*.

2011-2012: ExxonMobil Upstream Research Company: Controls on Shale Ductility: Application to Tight Gas Shale Development, $54,000 (supplement to existing award), *Lead PI.*

2010-2011: Consortium for Ocean Leadership: Expedition 332 support for Rachel Lauer, $6,834, *Sole PI.*

2010-2011: Consortium for Ocean Leadership: Expedition 332 salary support, $17,994, *Sole PI.*

2010-2012: National Science Foundation, EarthScope: Laboratory Study Of Phase III SAFOD Core: Physical Properties And Mechanical Behavior Of The Active San Andreas Fault Zone, $275,535, *Co-PI with C. Marone.*

2010-2013: ExxonMobil Upstream Research Company: Controls on Shale Ductility: Application to Tight Gas Shale Development, $106,795, *Lead PI.*

2010-2011: Woods Hole Oceanographic Institution (subcontract): Ocean Drilling Renewal Leadership Team, $84,858, *Sole PI.*

2010-2012: GDL Foundation: Effects of Stress States and Cementation on physical properties of mudstones in the Nankai subduction zone: Fellowship support for Hiroko Kitajima, $9000, *Sole PI.*

2009-2012: Consortium for Ocean Leadership: Frictional and permeability measurements on core samples of subduction input material: IODP Expedition 322, $15,000, *Sole PI.*

2009-2012: Consortium for Ocean Leadership: Experimental measurements of permeability and Vp & Vs in Core Samples: IODP Expedition 319, $15,000, *Sole PI.*

2009-2012: Consortium for Ocean Leadership: Expedition 319 Chief Scientist Support, $88,134, *Sole PI.*

2009-2010: Consortium for Ocean Leadership: Expedition 322 support for Matt Ikari, $5,608, *Sole PI.*

2009-2010: National Science Foundation, EAR-IF: Acquisition of a High-Pressure High-Temperature Load and Flow-Through System for Research and Teaching, $207,226, *Co-PI with D. Elsworth (EME Department)*.

2009-2010: National Science Foundation, Tectonics: Mechanics and Seismogenic Potential of Low Angle Normal Faults: A Field and Laboratory Investigation, $186,048, *Lead PI*.

2008-2009: National Science Foundation, EarthScope: Collaborative Research: Laboratory Study of the Mechanics and Physical Properties of the active San Andreas Fault zone from Phase III SAFOD cores, $29,087 (supplement to existing award), *Lead PI*.

2008-2009: National Science Foundation, Integrated Ocean Drilling Program (IODP): Collaborative Research: Laboratory Investigations of Fault-Zone Mechanical Behavior and Fluid Overpressure (EOR for IODP NanTroSEIZE Expeditions 314, 315, and 316), $99,080 Penn State Budget, *Lead PI*.

2008-2009: Integrated Ocean Drilling Program Management International (IODP-MI): Specialty Coordinator for IODP NanTroSEIZE Complex Drilling Project, $47,605, *Sole PI.*

2008-2010: National Science Foundation, EarthScope: Collaborative Research: Laboratory Study of the Mechanics and Physical Properties of the active San Andreas Fault zone from Phase III SAFOD cores, $255,183 Penn State Budget, *Lead PI*.

2007-2008: Integrated Ocean Drilling Program, Management International (IODP-MI): Specialty Coordinator for IODP NanTroSEIZE Complex Drilling Project, $35,995, *Sole PI.*

2007-2010: National Science Foundation, Marine Geology & Geophysics (MGG): The Upper Transition From Seismic to Aseismic Faulting on Subduction Megathrusts, $390,000, *Co-PI with C. Marone*.

2007-2009: American Chemical Society (Petroleum Research Fund): Fault zones in mudstone as petroleum seals and fluid conduits: A laboratory study, $90,000, *Lead PI*.

2006-2009: National Science Foundation, Integrated Ocean Drilling Program (IODP): Collaborative Research: Development of a long-term hydrologic observatory above the seismogenic zone offshore the Kii peninsula, $465,136 Penn State Budget, *Lead PI*.

2006-2008: Shell International Exploration and Production Inc.: Prediction of Pressure and Stress in Thrust Belts, $170,000 ($85,000 in year one with $85,000 year two renewal option), *Co-lead PI with Flemings*.

2006-2007: JOI/USSAC: Salary support for participation in Chikyu Shakedown Cruise, $11,895, *Sole PI*.

2006-2007: National Science Foundation, EarthScope: Collaborative Research: Laboratory Study of the Mechanics and Physical Properties of the San Andreas Fault and 3D SAFOD Volume, $219,327, *Co-PI with C. Marone.*

2005-2010: National Science Foundation, IODP: Collaborative Research: A 3-D seismic investigation of the Nankai Trough Plate Boundary System in the Kumano Basin, PSU budget $156,572, *Co-PI; Sole PI at Penn State*.

2005-2007: U.S. Department of Energy: 2004, Produced water and beneficial use in the Powder River Basin,WY, $120,974, *subcontract through Colorado School of Mines, Sole PI.*

2003-2006: National Science Foundation, MARGINS: Collaborative Research: Seismic Velocity, Compaction, and Pore Pressure in Underthrust Sediments, Nankai Subduction Zone, $391,060 ($124,833 to PSU), *Lead PI.*

2003-2004: JOI/USSAC Post Cruise Research Grant: Saffer, D.M., Fluid production from underthrust sediments, Costa Rica, ODP Leg 205: $22,475, *Sole PI.*

2002-2006: National Science Foundation, Tectonics Division: A critical evaluation of hypotheses for fluid overpressure along the San Andreas Fault, California: Implications for the "Stress-heat flow paradox, $109,846, *Lead PI.*

2002-2005: National Science Foundation, Geophysics Division: Frictional constitutive behavior of natural fault gouge materials: Effects of composition, $83,435, *Lead PI.*

2002-2003: USSSP Ocean Drilling Program: Leg 205 Shipboard Scientist Support, $26,563, *Sole PI.*

2002-2004: Western Resources Project: Hydrologic effects of coal-bed methane development on shallow and deep aquifer systems in the Powder River Basin, $68,906, *Sole PI.*

2001-2003: Petroleum Research Fund, Type G grant: In situ pore pressure and consolidation: A critical evaluation of field and laboratory approaches, $25,000, *Sole PI.*

2000-2002: JOI/USSAC Post Cruise Research Grant: Hydrologic and mechanical laboratory tests of samples from the Nankai Trough, ODP Leg 190, $20,998, *Sole PI.*

STUDENTS, POST-DOCTORAL SCHOLARS, & RESEARCH ASSOCIATES SUPERVISED

Current advisees:

Kaitlin Schaible	PhD student, anticipated 2026
Nicole Ferrie	PhD student, anticipated 2027 (co-advised with D. Breecker)
McKenzie Carlson	PhD student, anticipated 2028 (co-advised with L. Wallace)
Sapani Regmi	PhD student, anticipated 2030
Lucero Cruz	Undergraduate Research Assistant, 2024-present

Previous students (14 PhD; 11 MS; 15 Undergraduate) and post-doctoral scholars (9)
(listed in reverse chronological order by end date):

Peter Miller	PhD conferred, 2025
Samantha Burton	Undergraduate Summer REU Research Assistant, 2024
Joshua Edgington	PhD student, 2019-2024
Dr. Caroline Seyler	Postdoctoral scholar, 2020-2022
Dr. Srisharan Shreedharan	Postdoctoral scholar, 2020-2022 (co-advised with L. Lavier)
Dr. David (Chas) Bolton	Postdoctoral scholar, 2020-2022 (secondary advisor with D. Trugman)
Brianna Fernandez	Undergraduate Summer RTX Program Research Assistant
Dr. Anais Ferot	Research Associate (*GeoPRISMS Science Coordinator*), 2016-2020
Kalle Jahn	PhD conferred, 2021
Dorivaldo (Alex) Santos	MS conferred, 2020
Dr. Kyungjae Im	Postdoctoral Scholar, 2019
Dr. Tian Sun	Postdoctoral Scholar, 2017- 2019
Abby Kenigsberg	PhD conferred, 2019
Robert Valdez	PhD conferred, 2018
John Leeman	PhD conferred, 2017 (co-advised with C. Marone)

Yang Xu	MS conferred, 2017 (co-advised with E. Hajek)
Chihiro Kinoshita	Visiting doctoral advisee, Univ. Kyoto, 2016-17
Jacob Hagedorn	MS conferred, 2016 (co-advised with M. Arthur)
Dr. Sabine den Hartog	Postdoctoral scholar, 2013-2015 (co-advised with C. Marone)
Peter Miller	MS conferred, 2015
Katelyn Huffman	PhD conferred, 2015
Amelia Winner	Undergraduate Researcher, 2014-2015
Mat Schon	BS senior thesis student, 2013-2014
Brandi Niles	BS senior thesis student, 2013 (co-advised with M. Arthur)
Yipeng Zhang	PhD student, 2012-2014
Rachel Lauer	PhD conferred, 2013
Dr. Hiroko Kitajima	Post-doctoral scholar, 2010-2012
Hannah Bovenizer	Undergraduate Researcher, 2012 (co-advised with M. Feineman)
Brett Carpenter	PhD conferred, 2012 (co-advised with C. Marone)
Matthew Fry	PhD student, 2011-2012 (co-advised with C. Marone)
Alison Sacks	MS conferred, 2011 (co-advised with D. Fisher)
Dr. Samuel Haines	Post-doctoral scholar, 2008-2010 (co-advised with C. Marone)
Dr. Insun Song	Research Associate / Postdoctoral Scholar, 2006-2010
Dustin Lipik	BS Senior Thesis student, 2011
John Coleman	Undergraduate independent study, 2011 (co-advised with M. Arthur)
Khairul Amri Bukhari	BS Senior Thesis student, 2011-2012
Matthew Ikari	PhD conferred, 2010 (co-advised with C. Marone)
Andrew Rathbun	PhD conferred, 2010 (co-advised with C. Marone)
Enrique Perez	MS conferred, 2010
Teo Korkmaz	Undergraduate research, 2009-2010
Marie Gildow	BS Honors Thesis student, 2009-2010
Margaret Popek	MS conferred, 2009
Nick Adamson	BS Thesis student, 2008-2009
Patrick Fulton	PhD conferred, 2008
Robert Skarbek	MS conferred, 2008
Alexander McKiernan	MS conferred, 2005
Shaun Sagan	BA Independent Study, 2005
Aaron Payne	MS conferred, 2004
Dr. Glenn Spinelli	Post-doctoral scholar, 2003-2004 (co-advised with M. Underwood)
Melanie Williams	BS Independent Study, Univ. of Wyoming, 2003
Joyce Harris	BS Independent Study, Univ. of Wyoming, 2003
Brenda Rencher-Casey	MS candidate at Univ. of Wyoming
Karl G. Taboga	PhD candidate at Univ. of Wyoming

Graduate Thesis committees:

2019- (while at UT Austin; At UT Unless Otherwise Noted)

Ema Parker, PhD in progress; Rosalie Verwijs (MIT), PhD in progress; Isabelle Lambert, PhD in progress; Toluope Agbaje, PhD in progress; Cameron DeFabry, PhD in progress; Huiwen Sun, PhD in progress; Graciela Lopez-Campos, PhD in progress; Landon Lockhart, PhD conferred 2024; Thomas Battenhouse (Penn State), PhD in progress; Joshua Pwavodi (Univ. Grenoble), PhD conferred 2023; Christine Chesley (Columbia Univ./LDEO), PhD conferred 2021; James Beimiller, PhD conferred 2021; Srisharan Shreedharan (Penn State), PhD conferred 2021; Chas Bolton (Penn State), PhD conferred 2021

2005-2019 (while at Penn State; At Penn State Unless Otherwise Noted)

Kerry Ryan, PhD conferred 2019; Rui Zhang (EME dept.), PhD conferred 2019; Josh Woda, MS conferred 2019; Kelvin Nder Abaa (EME dept.), PhD conferred 2018; Beth Hoagland, PhD conferred 2018; Baiyuan Gao (Univ. TX), PhD conferred 2018; Hannah Rabinowitz (Lamont-Doherty Earth Observatory), PhD conferred 2018; Seyi Ajayi, MS conferred 2016; Tramond Baisden, MS conferred 2015; Tom Johnston, MS

conferred 2015; Marco Scuderi, PhD conferred 2014; Bryan Kaproth, PhD conferred 2013; Dennis Arun Alexis, PhD conferred 2013 (EME); Sabine den Hartog, PhD conferred 2013 (Univ. Utrecht); Christopher Landry, PhD conferred 2013 (EME); Marianne Conin (CNRS, France), PhD conferred, 2011, Brian LeVay, PhD conferred, 2010; Jon Samuelson, PhD conferred, 2009; Igor Faoro (EME Dept.), PhD conferred, 2009; Joshua Taron (EME Dept.), PhD conferred, 2009; Sultan Al Enezi (EME Dept.), PhD conferred, 2009; Denis Pone (EME), PhD conferred, 2009; Daniel Wheaton, MS conferred, 2009; Basar Busbug (EME Dept.), PhD conferred, 2008; Matthew Reilly, MS conferred, 2008; Tapan Kumar Biswas (EME Dept.), MS conferred, 2008; Geoffrey Moret, PhD conferred, 2007; Hui Long, PhD conferred, 2007; Sean Culkin, MS conferred, 2007; Audrey Hucks, MS conferred, 2007; Julia Schneider, MS conferred, 2007; Garth Llewelyn, MS conferred, 2005; Jon Samuelson, MS conferred, 2005.

2001-2004 (while at Univ. WY; At Univ. WY Unless Otherwise Noted)

Jeremy Shaha, MS conferred, 2004; Matthew Hornbach, PhD conferred 2004; Paula Cutillo (UC Boulder), PhD conferred, 2003; Brian Zurek, MS conferred, 2003; Benjamin Pearson, MS conferred, 2002; Michael Marshall, MS conferred, 2002.

MAJOR WORKSHOPS AND MEETINGS CONVENED

2023	Co-convener, IODP NantroSEIZE Synthesis Workshop – Expeditions 338, 348, 358, 365, and 380, Yokohama, Japan.
2020	Co-convener, IODP Expedition 375 post-expedition meeting, Napier, NZ, ~70 attendees (*rescheduled as virtual meeting with ~100 attendees in mid-2020*).
2019	Co-convener, IODP Expedition 365/380 post-expedition meeting, Seattle, WA, ~25 attendees.
2019	Co-convener and coordinator (*ex officio* – as GeoPRISMS Office Chair), GeoPRISMS Synthesis and Integration Theoretical & Experimental Institute, San Antonio TX, Feb. 26-Mar. 1 2019, ~180 attendees.
2017	Co-convener and coordinator (*ex officio* – as GeoPRISMS Office Chair), GeoPRISMS Rifting Initiation and Evolution Theoretical & Experimental Institute, Albuquerque NM, Feb. 7-10 2017, ~130 attendees.
2015	Co-convener, IODP Expedition 348 post-expedition meeting, Friday Harbor, WA.
2012-2013	Co-convener, NSF GeoPRISMS implementation workshop, New Zealand focus site, ~150 attendees.
2011	Co-convener, NSF GeoPRISMS Subduction Cycles and Dynamics implementation workshop, Austin TX, ~140 attendees.
2011	Co-convener, Consortium for Ocean Leadership workshop "Engaging Early Career Scientists in Future Scientific Ocean Drilling", College Station TX, ~35 attendees.
2010	Co-convener, NSF MARGINS Successor Program planning workshop, San Antonio TX, >200 attendees.
2008	Co-convener, MARGINS Seismogenic Zone Workshop, Portland OR, Sept. 22-26, ~100 participants.
2008	Co-convener (with E. Brodsky, J. Mori, and K-F. Ma), Rapid Response Drilling: Past, Present and Future, Intercontinental Drilling Program/SCEC workshop, Tokyo, Japan, ~75 participants.
2004	Co-Convener (with 4 others), Earthscope workshop on thermal processes.

ADDITIONAL RESEARCH ACTIVITIES & FIELD WORK

Field Work, Research/Drilling Cruises, and Work Experience (Selected):

2023	Data Recovery Cruise, Hikurangi Margin (R/V Thomas Thompson; ROV Jason)
2018	IODP Expedition 375: Drilling to unlock the secrets of Slow Slip offshore NZ (Co-chief scientist)
2016	IODP Expedition 365: NanTroSEIZE Observatories (Co-chief scientist)
2013	IODP Expedition 348: NanTroSEIZE Plate Boundary Stage 3: Deep Riser (Co-chief scientist)

2013 Co-Proponent: IODP proposal, *Tracking Tsunamigenic Slips Across and Along the Japan Trench (JTRACK): Investigating a new paradigm in tsunamigenic megathrust slip with very deep-water drilling using the D/V Chikyu*.

2011 Lead Proponent: IODP proposal, *Riserless Drilling to unlock the secrets of slow slip;* drilling at the N. Hikurangi subduction margin.

2010 IODP Expedition 332: NanTroSEIZE Stage 2 Riserless Observatory (Shipboard Scientist; Observatory specialist)

2009 IODP Expedition 319: NanTroSEIZE Stage 2: Riser/Riserless Observatory (Co-chief scientist)

2008-2011 Co-coordinator, inter-lab calibration of rock mechanics and friction studies for the San Andreas Fault Drilling (SAFOD) project (with C. Marone and D. Lockner).

2007 Participant, IODP Expeditions 314-315, Oct-Nov, 2007

2006 Participant, D/V Chikyu Shimokita Shakedown Drilling Expedition, Oct. 2006

2003 CORK subseafloor observatory data acquisition and servicing cruise, ODP Sites 1253/1255, offshore Costa Rica

2003 Lead U.S. proponent, IODP proposal 603-B (NanTroSEIZE Phase 2 Drilling: Mega-Splay Faults).

2003 Proponent, IODP NanTroSEIZE proposals 603-CDP (NanTroSEIZE umbrella proposal), 603-A (subduction inputs), 603-C (riser drilling), and 603-D (reference sites monitoring).

2002 ODP Leg 205 (Shipboard Scientist; Hydrogeology Specialist)

2000-2001 Independent Contractor, AOA Geophysics, Inc., Marine Division

2000 ODP Leg 190 (Shipboard Scientist; Physical Properties Specialist)

1999-2000 Staff Geologist (engineering geology), Rogers Johnson & Associates

1997 Heat flow survey and ROV seafloor mapping, Mariana Forearc

1996 ODP Leg 170 (Shore-based Scientist)

1996 R/V Sonne Research Cruise: Bathymetry and ROV seafloor mapping, Aleutian Trench

1998 Summer Intern, EXXON Exploration Company

Meeting Sessions Convened & Workshop Participation (Selected):

2020 Co-convener, "GeoPRISMS-a Decadal Framework to Support Strong Interdisciplinary Science and a Vibrant Diverse Community", AGU Fall Meeting.

2018 Co-convener, "Subduction Zone Processes at the Hikurangi Margin, New Zealand", AGU Fall Meeting.

2017 Co-convener, "Subduction zone dynamics from regular earthquakes through slow earthquakes to creep", Special Session, JPGU Annual Meeting, Chiba, Japan.

2016 Co-convener, "Frontier studies on subduction zone megathrust earthquakes and tsunamis", Special Session, Joint AGU/JPGU Meeting, Chiba, Japan.

2016 Co-convener, "Models and Experiments that Couple Flow and Deformation in the Shallow Crust", AGU Fall Meeting.

2015 Co-convener, "Frontier studies on subduction zone megathrust earthquakes and tsunamis", Special Session, JPGU Annual Meeting, Chiba, Japan.

2013 Co-convener, "Slip to the Trench in Megathrust Earthquakes", Special Session, JPGU Annual Meeting, Chiba, Japan.

2011 Invited Speaker, Workshop on slow slip, Hikurangi subduction zone, August, 2011, Gisborne NZ

2010 Co-convener, "From subduction inputs to seismogenesis", Special Session, AGU Fall Meeting.

2010 Convener, "New frontiers and discoveries from scientific ocean drilling", Union Session, AGU Fall meeting.

2009 INVEST IODP Planning Workshop & Meeting, Bremen Germany.

2008 Co-convener, "Fluids at Convergent Margins: Synthesis of Observations, Experiments and Models", Union Session, AGU Fall meeting.

2007 Shell Belaire Technology Center Workshop on Soil Mechanics, Houston, TX.

2006 Convener, "Fluids at plate boundaries: Agents of mechanical and chemical processes", Topical Session, Geological Society of America fall meeting.

2005 Chapman conference: Radiated Energy and the Physics of Earthquake Faulting.

2005 Convener, "Hubbert and Rubey in the 21st Century", Special Session, AGU Fall meeting.

2004 Nankai IODP cork workshop, JAMSTEC, Yukuska, Japan.
2003 Co-convener, “At the Seismogenic Front: Dynamic Processes at Convergent Margins”, Special Session, AGU Fall meeting.
2003 Earthscope Complimentary Geophysics Workshop, Denver, CO.
2003 Workshop on linkages between the Ocean Observatory Initiative and the IODP.
2002 NanTroSEIZE proposal planning workshop, Boulder, Colorado.
2000 Convener, "*Basin-Scale Hydrodynamic Systems: Stress State, Pore Pressure, Fluid Flow, and Deformation*", AGU Fall meeting.

INVITED PRESENTATIONS (SELECTED)

Dec 5, 2025 University of Texas, Dallas, Dept. of Geosciences Seminar
July 9, 2025 Lithosphere Dynamics Seminar, GFZ, Potsdam, Germany
April 23, 2025 Fluids in Cascadia Workshop, Portland, OR (*Keynote*)
Jan. 15, 2025 SZNet Ocean Floor Observational Technology Workshop (*Keynote*)
Nov. 14, 2024 University of Washington, Dept. of Earth & Space Science Colloquium
May 20, 2024 SZ4D Virtual Workshop on Rheology & Stress (*Keynote*)
April 4, 2024 Integrating Ocean Drilling and NASA Science: A Workshop to Explore Missions to Planet Earth, Washington, DC.
March 26, 2024 Future of US Marine Seafloor & Subseafloor Sampling Workshop, WHOI
March 1, 2024 Texas A&M University, Dept. of Geology & Geophysics Seminar
Feb. 27, 2024 Massachusetts Institute of Technology, Dept. of Earth and Planetary Sciences Lecture
Oct. 19, 2023 Northern Arizona Univ., School of Earth & Sustainability Seminar
Oct. 2, 2023 NanTroSEIZE Synthesis Workshop, JAMSTEC, Yokohama Japan
May 30, 2023 JAMSTEC, Marine Geodynamics Seminar
May 26, 2023 Workshop on new perspectives on subducting seamounts, ERI, Tokyo (*Keynote*)
Feb. 9, 2023 Univ. Texas Dept. of Geological Sciences, DeFord Lecture
Jan. 19-20, 2023 Univ. Grenoble, ISTerre (2 seminars)
Aug. 7-11, 2022 Gordon Conference on Rock Deformation
April 8, 2022 SMU Dept. of Earth Sciences
Mar. 17, 2022 Structure and Deformation and Plate Boundaries Workshop, Univ. Hawaii (*Keynote*)
Mar. 5, 2021 DGG/SEG Scientific Drilling Workshop
Sept. 11, 2020 USF College of Marine Science Colloquium
Sept. 8, 2020 Hyuga-Nada Drilling Workshop, Univ. Tokyo, Japan.
Jan. 21, 2020 Univ. CA Santa Cruz, Earth & Planetary Sciences Dept. Colloquium
Jan. 16, 2020 Stanford Univ., Geophysics Dept. Colloquium
Dec. 14, 2019 AGU Fall Meeting, San Francisco, CA
Sept. 21, 2019 International Joint Workshop on Slow Earthquakes (*Keynote*)
March 28, 2019 Univ. Texas, Dept. of Geological Sciences
Oct. 14, 2018 Univ. Texas, Austin, Petroleum Engineering Dept. Colloquium
Sept. 2018 UK IODP 50th Anniversary Symposium, London (*Keynote*)
Oct. 2017 Victoria Univ. Wellington, Earth Sciences Seminar
May 2017 Joint AGU/Japan Geoscience Union Meeting, Chiba, Japan
April 2017 Seismological Society of America Annual Meeting, Denver, CO
Dec. 2016 AGU Fall Meeting, San Francisco, CA
Sept. 26, 2016 Subduction Zone Observatories Workshop, Boise, ID (*Keynote*)
Aug. 2016 GNS New Zealand Colloquium
May 2016 Joint AGU/Japan Geoscience Union Meeting, Chiba, Japan
March 2, 2016 Hess Pore Pressure & Fracture Gradient Group, Houston, TX
March 2, 2016 Hess Structure & Tectonics Group, Houston, TX
Feb. 23, 2016 Chapman Conference on Slow Earthquakes, Ixtapa, Mexico
Feb. 19, 2016 Univ. Texas Institute for Geophysics Seminar
Feb. 10, 2016 Earth and Atmospheric Sciences Seminar, Cornell University
Oct. 13, 2015 GeoPRISMS Subduction Cycles and Deformation Theoretical & Experimental Institute
April 9, 2015 Woods Hole Oceanographic Institution

March 31, 2015	University of Texas, Dept. of Geological Sciences
March 30, 2015	University of Texas, Institute for Geophysics
Aug. 2, 2014	KANAME meeting on Great Subduction Zone Earthquakes, Sapporo Japan
July. 31, 2014	AOGS annual meeting, Sapporo Japan
Nov. 9, 2012	Weeks Lecture, Univ. Wisconsin Madison
Oct. 12, 2012	AIST, Tsukuba, Japan
Aug. 17, 2012	AOGS annual meeting, Singapore
May 26, 2012	German Research Center SFB574 on Subduction processes, Kiel, Germany
May 18, 2012	Princeton University
April 27, 2012	Lamont-Doherty Earth Observatory
March 30, 2012	Penrose conference: Fluid Flow, Material Transfer and Deformation in the Forearcs of Convergent Margins (*Keynote*).
Feb. 27, 2012	Conference on Great Earthquakes in Subduction Zones, Kochi Japan (*Keynote*)
July 31, 2011	Public Lecture on Subduction Earthquakes, Gisborne, NZ
June 4, 2011	Southwest Oregon Community College, Geology Lecture Series
May 16, 2011	SAFOD Workshop, Earthscope National Meeting, Austin TX
May 2, 2011	University of Marseille, Marseille France
April 28, 2011	New Mexico Inst. of Mining & Technology, Dept. Earth & Environmental Sciences
April 27, 2011	Univ. of Colorado, Boulder, Dept. of Geological Sciences
April 25, 2011	Indiana Univ. Purdue Univ. Indianapolis, Dept. of Earth Science
April 20, 2011	University of Minnesota, Dept. of Geology & Geophysics
Feb. 3, 2011	Iowa State University, Dept. of Geological Sciences
Nov. 4, 2010	German Research Center SFB574 on Subduction processes, Pucon Chile (*Keynote*)
Oct. 14, 2010	European Science Foundtion Workshop on Borehole Monitoring
Mar. 24, 2009	DrillNZ, ICDP Alpine Fault Drilling Workshop, Franz Josef Glacier, NZ
Sept. 23, 2008	NSF-MARGINS Seismogenic Zone Initiative workshop
April, 2008	European Geophysical Union 2008 Meeting, Vienna, Austria
Apr. 8, 2008	Williams College, Geology Dept. Colloquium Series
Feb. 8, 2008	University of Michigan, Smith Lecture Series
Jul. 18, 2007	Shell Bellaire Technology Center, Houston, TX
Jun. 18, 2007	Workshop to Integrate Subduction Factory and Seismogenic Zone Studies in Central America, Heredia, Costa Rica (*Keynote*)
Mar. 30, 2007	University of Rochester, Dept. Earth & Environmental Sciences
May, 2006	ICDP/IODP Fault Zone Drilling Workshop, Miyazaki, Japan
Sept., 2005	Rice University, Dept. of Earth Science
Mar., 2005	EarthScope National Meeting, Albuquerque, NM
May, 2004	Workshop on Downhole Tools in the IODP, Washington, DC
Apr, 2004	Joint DFG-NSF Conference for outstanding young researchers, Washington, DC
Mar., 2004	The Pennsylvania State University, Dept. of Geosciences
Oct., 2003	University of Missouri, Columbia, Dept. of Geological Sciences
Apr., 2003	The Pennsylvania State University, Dept. of Geosciences
Mar., 2003	NSF-MARGINS Theoretical - Experimental Institute, Snowbird, UT
Mar., 2003	University of Minnesota, Dept. of Geology & Geophysics
Apr., 2002	Woods Hole Oceanographic Institution, Geophysics Seminar Series
Oct., 2001	University of Colorado, Boulder, Dept. of Geological Sciences
Apr., 2001	University of Utah, Dept. Geology & Geophysics
Mar., 2001	New Mexico Inst. of Mining & Technology, Dept. Earth & Environmental Sciences
Dec., 2001	Hubbert Quorum, U.S. Geological Survey, Menlo Park, CA
Nov., 2000	Earthquake Megaproject Group, USGS, Menlo Park, CA
Mar., 2000	Joint ODP-Industry Workshop on overpressure in the Gulf of Mexico, Houston, TX
Nov., 1999	The Pennsylvania State University, Dept. of Geosciences
Dec., 1998	Cascades Volcano Observatory Vancouver, WA

SERVICE

University & Department Committees

2025	UT Tenure and Promotion Case, Discussion & Presentation Lead (T. Goudge)
2024-2025	UT Jackson School Dean Search Committee
2023-2024	UT Faculty Comprehensive Periodic Review (*ad hoc*, committee member)
2022-2023	UT Faculty Comprehensive Periodic Review (*ad hoc*, committee member)
2018-2020	Penn State Water Council (*elected, 3 year term*)
2018-2019	Undergraduate Advisor, Dept, of Geosciences, Penn State Univ. (~8 advisees)
2016-2018	Associate Dept. Head for Graduate Programs & Research, Geosciences, Penn State Univ.
2016-2018	Executive Committee, Geosciences. Penn State Univ.
2016-2018	Graduate Admissions Committee, Penn State Univ. (*ex officio*)
2016-2017	Member, Faculty Search Committee (Eco-hydrology position)
2014-2015	Chair, Faculty Search Committee (Solid Earth Geosciences Position)
2014-2015	Associate Head for Graduate Programs & Research, Geosciences (*Interim*)
2014-2015	Executive Committee, Geosciences
2014-	Pulse of the Earth facility Steering Committee
2012-2014	Water Science Task Force (University-wide ad-hoc committee)
2012-2014	Chair, Faculty Search Committee (Hydrogeology position)
2012-2014	Dept. of Geosciences Tenure and Promotion Committee
2011-2015	Graduate program committee, Dept. of Geosciences
2010-2015	Steering committee, Marcellus Shale Center
2009-2010	Rover, Candidacy Exams, Dept. of Geosciences
2009-2010	Member, *ad hoc* committee to assess research infrastructure, College of EMS
2009	Member, *ad-hoc* planning committee for Tri-bio building, College of EMS
2008-2009	Chair, Graduate Admissions Committee
2008-2009	Executive Committee, Dept. of Geosciences
2008-2009	Member, Faculty Search Committee (CO_2 sequestration and Sedimentary Geology positions)
2007-2010	Faculty co-advisor, Geosciences Departmental Colloquium Series
2007-2008	Dept. of Geosciences Tenure and Promotion Committee
2007-2008	Graduate Admissions committee
2007-2008	Faculty Search Committee, EME Dept.
2007-2008	Faculty Search Committee, Dept. of Geosciences
2005-2009	Graduate Program Committee, Dept. of Geosciences
2002-2003	Graduate Admissions Committee (Geology & Geophysics, Univ. of Wyoming)
2002	Earth systems science center committee (Univ. of Wyoming)
2001-2003	Chair, web-site committee (Geology & Geophysics, Univ. of Wyoming)
2001-2002	Computer committee (Geology & Geophysics, Univ. of Wyoming)
2002	Coordinator for student volunteers: AAPG Rocky Mountain Section Meeting
2001-2002	Faculty Advisor, Geology Club (Geology & Geophysics, Univ. of Wyoming)

Professional Service and Outreach (Selected)

2024-present	AGU Tectonophysics Section Fellows Committee
2024-present	Guest AE, Special Collection on Slow to Fast Earthquakes, *Geochem., Geophys.*, *Geosyst.*
2022-present	SZ4D Steering Committee
2020-present	SZ4D Initiative Working Group, Faulting & Earthquake Cycles (Co-chair, 2022-present)
2023	Reviewer, National Academies Report on the Future of Ocean Drilling
2023-2024	Japan Trench Drilling Observatory Task Force (advisory to IODP operator)
2022-2023	SZ4D *ad hoc* seafloor cables committee (chair)
2022-2023	SZ4D *ad hoc* bylaws committee
2021-2023	U.S. Scientific Ocean Drilling Alliance (Institutional Voices for Ocean Drilling)
2020-2023	*CIDER* Program Committee; 2022 Session
2020	Panelist, *Geophysicists of the Future – An Academic Perspective*, SEG Annual Meeting

2016-2020 *GeoPRISMS* Office and Steering Committee Chair
2018 Site Visit Panel, NSF GEO-OCE
2017-2018 Co-Editor, *Oceanography, Special Issue*: "Scientific Ocean Drilling: Looking to the Future"
2016-2017 Associate Editor, *GSA Special Publication* "Geology and Tectonics of Subduction Zones: A Tribute to Dr. Gaku Kimura"
2016 Multiple Interviews for *Smithsonian Magazine* about Slow Earthquakes
2013-2016 Panel Member, NSF GEO-EAR
2014 Interview for *Discover Magazine* Story on slow earthquakes
2014 Interview for *Seattle Times* story series on subduction earthquakes and monitoring systems
2014 Feature profile in *Chikyu Hakken*, JAMSTEC outreach magazine
2013 NSF Panel Member, OCE-OD
2011-2018 San Andreas Fault Observatory at Depth (*SAFOD*) Core and Sample Committee (CoSWoG)
2011-2013 Project Management Team, *Japan Trench Fast Earthquake Drilling Project (J-FAST*): IODP proposal for rapid response drilling of March 2011 Tohoku Mw 9 Earthquake.
2011 NSF public relations/news article and video for "*Science Nation"*: http://www.nsf.gov/news/special_reports/science_nation/earthquakes.jsp
2011 Member, detailed planning group (DPG), rapid response drilling for Tohoku Japan Earthquake
2010-2012 U.S. IODP renewal leadership team (*invited*; one of 4 team members)
2010-2011 Writing committee, Integrated Ocean Drilling Program New Science Plan (*invited;* one of 14 members of international team representing ocean drilling community).
2010-2011 Consortium for Ocean Leadership, Distinguished Lecturer
2010-2011 NSF-MARGINS successor program (GeoPRISMS) Steering Committee
2010 NSF-MARGINS successor science plan writing (MSPW) Committee
2009-2012 Guest editor, Theme issue of *Geochemistry, Geophysics, Geosystems*: Mechanics, Deformation, and Hydrologic Processes at Subduction Complexes
2009 Interview for Integrated Ocean Drilling Program (IODP) "INVEST" outreach video: http://www.youtube.com/watch?v=P8tH0-q-MT0
2009 Speaker, Press conference on IODP Expedition 319, Tokyo, Japan, Sept. 3
2009 Interviewed for Australian Broadcasting Company production of science program "*Catalyst".*
2009 NSF Panel Member, OCE-MGG
2008-2009 Steering Committee, Charting the Future Course of Scientific Ocean Drilling Workshop
2008-2009 Selection Panel: Marine Geosciences Leadership Symposium, Consortium for Ocean Leadership
2008 U.S. Geological Survey External Grants Program, NEHRP Panel member
2007-2010 NSF-MARGINS Steering Committee
2007-2008 Geological Society of America, ad-hoc committee on Innovative Science
2007-2008 Interviewed for article on subseafloor observatories for *Civil Engineering* magazine.
2007 Panel member, AGU Press conference on NanTroSEIZE drilling program, Dec. 12.
2006 Interviewed for *Discovery Science New*s article (by L. O'Hanlon).
2006 U.S. Geological Survey External Grants Program, NEHRP Panel member
2003-2006 IODP Science Steering and Evaluation Panel (SSEPs) member
2003-2004 Contributor, NSF MARGINS SEIZE science plan
2003 Physical properties editor, Post-Cruise Editorial Meeting, ODP Leg 205 Initial Reports.
2000 Physical properties editor, Post-Cruise Editorial Meeting, ODP Leg 190 Initial Reports.

PROFESSIONAL AND INDUSTRIAL ASSOCIATIONS

American Geophysical Union (AGU), Geological Society of America (GSA), American Academy for the Advancement of Science (AAAS), Japan Geoscience Union (JPGU), Asia Oceania Geosciences Society (AOGS), Seismological Society of America (SSA)