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ACADEMIC APPOINTMENTS

May 2025	Professor, The Ohio State University, School of Earth Sciences
2020-2025	Associate Professor, The Ohio State University, School of Earth Sciences
2014-2020	Assistant Professor, The Ohio State University, School of Earth Sciences
2013-2014	Assistant Professor, University of Kentucky, Dep. of Earth & Env. Sciences

ADDITIONAL PROFESSIONAL EXPERIENCE

2024-2025	Associate Director of Administration, School of Earth Sciences, The Ohio State University
2023	Project Scientist, Gulf of Mexico Deepwater Hydrate Coring Expedition, Walker Ridge 313, Terrebonne Basin, Gulf of Mexico
2021-2022	Visiting Researcher, Laboratory of Seafloor and Subseafloor Geological Processes, Institute of Marine Sciences, Barcelona, Spain
2022	Group Leader and Physical Properties Specialist, International Ocean Discovery Program, Expedition 386, Japan Trench Paleoseismology, Shimizu, Japan
2010-2012	Exploration Geologist, ExxonMobil Exploration Co., Houston, Texas. Operations geology, wellsite pressure surveillance team, Site investigation specialist for deepwater projects in the Gulf of Mexico, Black Sea, and NW Australia
2005	Geoscience Intern, Geohazards Assessment Team, Shell International Exploration and Production, Bellaire, TX. Core-Log-Seismic Integration of Mass Transport Deposits in the Mars-Ursa Basin, Gulf of Mexico
2005	Sedimentologist, Integrated Ocean Drilling Program, Gulf of Mexico Hydrogeology
2004	Geoscience Intern, BP, Shallow Hazards and Site Investigation, Houston, TX. "Integrated Shallow Hazards Assessment, Tubular Bells and Bon Jovi, Gulf of Mexico
2003	Physical Properties Specialist, Ocean Drilling Program Leg 210, offshore Newfoundland
2002-2007	Graduate Research and Teaching Assistant at Penn State and UT Austin

ACADEMIC DEGREES

Ph.D.	2010	Geological Sciences, The University of Texas at Austin, Austin, Texas
M.S.	2006	Geosciences, The Pennsylvania State University, University Park, Pennsylvania
B.S.	2002	Marine Science, Eckerd College, St. Petersburg, Florida

AWARDS AND RECOGNITION

2020-2025	CAREER Award, Ocean Sciences, Marine Geology and Geophysics Program, United States National Science Foundation
2019-2021	Early Career Research Fellow, National Academies of Sciences, Engineering, and Medicine, Gulf Research Program
2021	Distinguished Teaching Award, School of Earth Sciences, The Ohio State University
2018-2019	Faculty Fellow, Ohio State Center for Energy Research, Training, and Innovation (CERTAIN), The Ohio State University
2010	Best Ph.D. Student Technical Session, spring semester (UT Austin Jackson School)
2008+2005	Outstanding Student Paper Award (AGU Fall meeting)

PUBLICATIONS

* graduate student advisee + post-doc advisee ° undergraduate advisee

Peer-Reviewed Journal Articles (35)

- [35] *Higgins, F. **D. E. Sawyer**, and R. Urgeles, 2025, *Megabeds in the Marsili Basin, Tyrrhenian Sea*, Basin Research, 37, no. 6: e70074, <https://doi.org/10.1111/bre.70074>.
- [34] Lawal, M. A., Cook, A. E., and **Sawyer, D. E.**, 2025, *A Submarine Mud Volcano Eruption Triggered a 100 m Thick Mass Flow*, Marine Geology, vol. 491, <https://doi.org/10.1016/j.margeo.2025.107680>.
- [33] Strasser, M., K. Ikehara, C. Pizer, T. Itaki, Y. Satoguchi, A. Kioka, C. McHugh, J-N Proust, **D. E. Sawyer**, IODP Expedition 386 Management Team, and IODP Expedition 386 Science Party, 2024, *Japan Trench Event Stratigraphy: First Results from IODP Giant Piston Coring in a Deep-Sea Trench to Advance Subduction Zone Paleoseismology*, Marine Geology, Vol. 477, <https://doi.org/10.1016/j.margeo.2024.107387>.
- [32]. Gulick, S.P.S., Reece, R.S., **Sawyer, D.E.**, Christeson, G. L. and Horton, B. K., 2024, *Effect of Seismicity and Tectonic-Glacial Interactions on Submarine Megaslides*, Geophysical Research Letters, 51, e2024GL108374. <https://doi.org/10.1029/2024GL108374>.
- [31] **Sawyer, D. E.** R. Urgeles, C. Lo Iacono, 2023, *50,000 years of recurrent volcanoclastic megabed deposition in the Marsili Basin, Tyrrhenian Sea*, GEOLOGY, <https://doi.org/10.1130/G51198.1>.
- [30] Chu, M., Strasser, M., Ikehara, K., Everest, J., Maeda, L., Hochmuth, K., Xu, L., McNichol, A., Bellanova, P., Rasbury, T., Koelling, M., Riedinger, N., Johnson, J., Luo, M., Marz, C., Straub, S., Jitsuno, K., Brunet, M., Cai, Z., Cattaneo, A., Hsiung, K., Ishizawa, T., Itaki, T., Kanamatsu, T., Keep, M., Kioka, A., McHugh, C., Micallef, A., Pandey, D., Proust, J.N., Satoguchi, Y., **Sawyer, D.E.**, Seibert, C., Silver, M., Virtasalo, J., Wang, Y., Wu, T.-W., Zellers, S., and Bao, R., 2023, *Earthquake-enhanced dissolved carbon cycles in ultra-deep ocean sediments*, Nature Communications, 14, 5427, <https://doi.org/10.1038/s41467-023-41116-w>.
- [29] *Lenz, B. L., Griffith, W. A., and **Sawyer, D. E.**, 2023, *Impact-induced seafloor deformation from submarine landslides: Diagnostic of slide velocity?* Geophysical Research Letters, 50, e2023GL104818. <https://doi.org/10.1029/2023GL104818>.
- [28] +Portnov, A., K. You, P. Flemings, A. Cook. M. Heidari, **D. E. Sawyer**, and S. Bunz, 2023, *Dating submarine landslides using the transient response of gas hydrate stability*, GEOLOGY, <https://doi.org/10.1130/G50930.1>.
- [27] *Fillingham, J. N., **Sawyer, D. E.** and Bécel, A., 2022, *Undulating Sediments of the Cape Fear Submarine Landslide system, offshore US Atlantic Margin: Sediment Waves versus Creep Deformation*, Interpretation, Volume 10, Issue 4. <https://doi.org/10.1190/INT-2021-0183.1>
- [26] *Martinez, G. O., **Sawyer, D. E.**, and Portnov, A., 2022, *Seismic Geomorphology of the Chandeleur Submarine Landslide in the Northern Gulf of Mexico*, Geological Society of London, Special Publications, Volume 525, Issue 1. <https://doi.org/10.1144/SP525-2021-12>.
- [25] *Lenz, B. L., and **Sawyer, D. E.**, 2021, *Mass Transport Deposits in Reflection Seismic Data Offshore Oregon, USA*, Basin Research, <https://doi.org/10.1111/bre.12611>.
- [24] *Browning, T. N., and **Sawyer, D.E.**, 2021, *Erosion and Deposition Vulnerability of Small (<5,000 km²) Tropical Islands*, PLoS ONE 16(9): e0253080, <https://doi.org/10.1371/journal.pone.0253080>.
- [23] *Browning, T. N., and **Sawyer, D. E.**, 2021, *Vulnerability to watershed erosion and coastal deposition in the tropics*, Scientific Reports, 11, no. 885, <https://doi.org/10.1038/s41598-020-79402-y>.

- [22] ⁺Portnov, A., Santra, M., Cook, A. E., and **Sawyer, D. E.**, 2020, *The Jackalope gas hydrate system in the northeastern Gulf of Mexico*, Marine and Petroleum Geology, v. 111, p. 261-278. DOI: <https://doi.org/10.1016/j.marpetgeo.2019.08.036>.
- [21] ⁺Portnov, A., A. E. Cook, M. Heidari, **D.E. Sawyer**, M. Santra, and M. Nikolinakou, 2020, *Salt-driven evolution of a gas hydrate reservoir in Green Canyon, Gulf of Mexico*, AAPG Bulletin, 104 (9): 1903–1919, <https://doi.org/10.1306/10151818125>.
- [20] ⁺Portnov, A., Cook, A.E., **Sawyer, D.E.**, *Yang, C., ⁺Hillman, J.I.T., and Waite, W.F., 2019, *Clustered BSRs: Evidence for gas hydrate-bearing turbidite complexes in folded regions, example from the Perdido Fold Belt, northern Gulf of Mexico*, Earth and Planetary Science Letters, v. 528, 115843, DOI: <https://doi.org/10.1016/j.epsl.2019.115843>.
- [19] *Browning, T.N., **Sawyer, D.E.**, Brooks, G.R., Larson, R.A., Ramos-Scharrón, C., and Canals-Silander, M., 2019, *Widespread Deposition in a Coastal Bay Following Three Major 2017 Hurricanes (Irma, Jose, and Maria)*, Scientific Reports, v. 9, no. 1, p. 7101, <https://doi.org/10.1038/s41598-019-43062-4>.
- [18] **Sawyer, D.E.**, ^oMason, R. A., Cook, A. E., and ⁺Portnov, A., 2019, *Submarine Landslides Induce Massive Waves in Subsea Brine Pools*, Scientific Reports, 9:128, DOI:10.1038/s41598-018-36781-7.
- [17] *Lenz, B.L., **Sawyer, D.E.**, Phrampus, B., Davenport, K., and Long, A., 2018, *Seismic Imaging of Seafloor Deformation Induced by Impact from Large Submarine Landslide Blocks, Offshore Oregon*, Geosciences, v. 9, no. 10, doi:10.3390/geosciences9010010.
- [16] Yin, S., Li, J., Ding, W., **Sawyer, D.E.**, Wu, Z., and Tang, Y., 2018, *Sedimentary filling characteristics of the South China Sea oceanic basin, with links to tectonic activity and seafloor spreading*, International Geology Review, DOI: 10.1080/00206814.2018.1522603
- [15] Hill, J. C., Brothers, D. S., Hornbach, M. J., **Sawyer, D. E.**, Shillington, D. J., and Bécél, A., 2018, *Subsurface controls on the development of the Cape Fear Slide Complex, central US Atlantic Margin*, Geological Society, London, Special Publications, v. 477, doi: <https://doi.org/10.1144/SP477.17>.
- [14] **Sawyer D. E.**, R. S. Reece, S. P. S. Gulick, and *B. L. Lenz 2017, *Submarine landslide and tsunami hazards offshore southern Alaska: Seismic strengthening versus rapid sedimentation*, Geophysical Research Letters, 44, doi:10.1002/2017GL074537.
- [13] Wemple, B. C., *Browning, T., Ziegler, A. D., Celi, J., Chun, K. P. (S), Jaramillo, F., Leite, N. K., Ramchunder, S. J., Negishi, J. N., Palomeque, X., and **Sawyer, D.E.**, 2017, *Ecohydrological Disturbances Associated with Roads: Current Knowledge, Research Needs and Management Concerns with Reference to the Tropics*, Ecohydrology, doi: 10.1002/eco.1881.
- [12] ⁺Hillman, J.T., A.E. Cook, **D.E. Sawyer**, H.M. Kucuk, and D.S. Goldberg, 2017, *The Character and Amplitude of 'Discontinuous' Bottom-Simulating Reflections in Marine Seismic Data*, Earth and Planetary Science Letters. 459, 157-169, <http://dx.doi.org/10.1016/j.epsl.2016.10.058>.
- [11] *Moore, Z. T., and **D. E. Sawyer**, (2016), *Assessing post-failure mobility of submarine landslides from seismic geomorphology and physical properties of mass transport deposits: an example from seaward of the Kumano Basin, Nankai Trough, offshore Japan*, Marine Geology, Vol. 374, pp. 73-84, <https://doi.org/10.1016/j.marpetgeo.2016.02.003>.
- [10] *Browning, T.N., **D.E. Sawyer**, G.R. Brooks, R.A. Larson, B. O'Donnell, J. Hadfield (2016), *Linking Land and Sea: Watershed Evaluation and Mineralogical Distribution of Sediments in Eastern St. John, USVI*, Caribbean Journal of Science, Vol. 49, No. 1, p. 38-56.
- [9] **Sawyer, D. E.**, and J. R. DeVore* (2015), *Elevated shear strength of sediments on active margins: Evidence for seismic strengthening*, Geophys. Res. Lett., 42, doi:10.1002/2015GL066603.
- [8] Cook, A.E., and **D.E. Sawyer** (2015), *The mud-sand crossover on marine seismic data*, Geophysics, 80(6), A109-A114, doi:10.1190/geo2015-0291.1.

- [7] Moore, G.F.; Kanagawa, K.; Strasser, M.; Dugan, B., Maeda, L., Toczko, S., and the IODP Expedition 338 Scientific Party, (2014), *IODP Expedition 338: NanTroSEIZE stage 3: NanTroSEIZE plate boundary deep riser 2. Scientific Drilling*, (17), 1-12, doi:10.5194/sd-17-1-2014.
- [6] **Sawyer, D.E.**, P.B. Flemings, and M. Nikolinakou, (2014), *Continuous deep-seated slope failure recycles sediments and limits levee height in submarine channels*, *GEOLOGY*, doi:10.1130/G34870.1
- [5] **Sawyer, D.E.**, P. B. Flemings, D. Mohrig, and J. Buttles, (2012), *Mudflow Transport Behavior and Deposit Morphology: Role of Shear Stress to Yield Strength Ratio in Subaqueous Experiments*, *Marine Geology*, 307-310, pp 28-39, <https://doi.org/10.1016/j.margeo.2012.01.009>
- [4] **Sawyer, D. E.**, P. B. Flemings, B. Dugan, and J. T. Germaine (2009), *Retrogressive failures recorded in mass transport deposits in the Ursa Basin, Northern Gulf of Mexico*, *J. Geophys. Res.*, 114, B10102, doi:10.1029/2008JB006159.
- [3] Flemings, P. B., H. Long, B. Dugan, J. Germaine, C. John, J. H. Behrmann, **D.E. Sawyer**, and IODP Expedition 308 Scientists, (2008), *Pore pressure penetrometers document high overpressure near the seafloor where multiple submarine landslides have occurred on the continental slope, offshore Louisiana, Gulf of Mexico*, *Earth and Planetary Science Letters*, v. 269, p. 309-324, <https://doi.org/10.1016/j.epsl.2007.12.005>.
- [2] **Sawyer, D.E.**, Flemings, P.B., Shipp, R.C., and Winker, C.D., (2007), *Seismic Geomorphology, Lithology, and Evolution of the Late Pleistocene Mars-Ursa Turbidite Region, Mississippi Canyon Area, Northern Gulf of Mexico*, *AAPG Bulletin*, vol. 91, no. 2, p. 215-234, <https://doi.org/10.1306/08290605190>
- [1] Behrmann, J.H.; Flemings, P.B.; John, C.M.; and the IODP Expedition 308 Scientists. (2006). *Rapid Sedimentation, Overpressure, and Focused Fluid Flow, Gulf of Mexico Continental Margin*. *Scientific Drilling*, (3), 12-17. doi:10.2204/iodp.sd.3.03.2006.

Peer-Reviewed Proceedings and Conference Papers (10)

- [10] Portnov, A., Cook, A.E., **Sawyer, D.E.** (2022). *Bottom Simulating Reflections and Seismic Phase Reversals in the Gulf of Mexico*. In: Mienert, J., Berndt, C., Tréhu, A.M., Camerlenghi, A., Liu, CS. (eds) *World Atlas of Submarine Gas Hydrates in Continental Margins*. Springer, Cham. https://doi.org/10.1007/978-3-030-81186-0_26.
- [9] **Sawyer, D.E.**, and *B.N. Hodelka, (2016), *Tiny Fossils, Big Impact: The Role of Foraminifera-Enriched Condensed Section in Arresting the Movement of a Large Retrogressive Submarine Landslide in the Gulf of Mexico*, in: Lamarche G. et al. (eds), *Submarine Mass Movements and their Consequences*, *Advances in Natural and Technological Hazards Research*, vol 41. Springer, Cham. https://doi.org/10.1007/978-3-319-20979-1_48.
- [8] *Akinci, L. and **D.E. Sawyer**, (2016), *Deriving the Rate of Salt Rise at the Cape Fear Slide Using New Seismic Data*, in: Lamarche G. et al. (eds), *Submarine Mass Movements and their Consequences*, *Advances in Natural and Technological Hazards Research*, vol 41. Springer, Cham. https://doi.org/10.1007/978-3-319-20979-1_39.
- [7] *Devore, J. and **D.E. Sawyer**, (2016), *Shear Strength of Siliciclastic Sediments from Passive and Active Margins (0–100 m Below Seafloor): Insights into Seismic Strengthening*, in: Lamarche G. et al. (eds), *Submarine Mass Movements and their Consequences*, *Advances in Natural and Technological Hazards Research*, vol 41. Springer, Cham. https://doi.org/10.1007/978-3-319-20979-1_17.
- [6] Flemings, P.B., Reece, J.S., Ditkof, J., Atkins, C.C., and **Sawyer, D.**, (2015), *Data report: particle size analysis of sediments in the Nankai Trough, IODP Expedition 319 Hole C0009A*. In Saffer, D., McNeill, L., Byrne, T., Araki, E., Toczko, S., Eguchi, N., Takahashi, K., and the Expedition 319 Scientists, *Proc. IODP, 319: Tokyo (Integrated Ocean Drilling Program Management International, Inc.)*, doi:10.2204/iodp.proc.319.203.2015.
- [5] *Moore, Z.T., and **D.E. Sawyer**, (2014), *Data report: particle size analysis of sediments in Nankai Trough, IODP Expedition 338, Site C0021*, In Strasser, M., Dugan, B., Kanagawa, K., Moore,

- G.F., Toczko, S., Maeda, L., and the Expedition 338 Scientists, Proceedings of the Integrated Ocean Drilling Program, Volume 338, doi:10.2204/iodp.proc.338.201.2014.
- [4] Yamamoto, Y., and **Sawyer, D.E.**, (2012), *Systematic Spatial Variations in the Fabric and Physical Properties of Mass-Transport Deposits in the Ursa Region, Northern Gulf of Mexico*, Ch. 58., Y. Yamada et al. (eds.), Submarine Mass Movements and Their Consequences, Advances in Natural and Technological Hazards Research 31, DOI10.1007/978-94-007-2162-3_58, p. 649-658.
- [3] Urgeles, R., Locat, J., **Sawyer, D.E.**, Flemings, P. B., Dugan, B., and Binh, N.T.T., (2010), *History of Pore Pressure Build Up and Slope Instability in Mud-Dominated Sediments of Ursa Basin, Gulf of Mexico Continental Slope*, In: D.C. Mosher et al. (Editors), Submarine Mass Movements and Their Consequences, Advances in Natural and Technological Hazards Research. DOI10.1007/978-90-481-3071-9_15 Springer, Dordrecht, pp. 179-190.
- [2] Moore, J.C., Iturrino, G.J., Flemings, P.B., **Sawyer, D.E.**, (2009), *Data Report: Stress Orientations from Borehole Breakouts, IODP Expedition 308, Ursa Area, Mississippi Fan, Gulf of Mexico*, In Flemings, P.B., John, C. (Eds.), Proc. IODP, 308: College Station, TX (Integrated Ocean Drilling Program Management International, Inc.), doi:10.2204/iodp.proc.308.212.2009.
- [1] **Sawyer, D.E.**, Jacoby, R., Flemings, P., and Germaine, J.T., (2008), *Data report: particle size analysis of sediments in the Ursa Basin, IODP Expedition 308 Sites U1324 and U1322, northern Gulf of Mexico*, In Flemings, P.B., Behrmann, J.H., John, C.M., and the Expedition 308 Scientists, Proc. IODP, 308: College Station, TX (Integrated Ocean Drilling Program Management International, Inc.) doi:10.2204/iodp.proc.308.205.2008.

Non Peer-Reviewed Publications (12)

- [12] Flemings, P.B., C. Thomas, S.C. Phillips, T.S. Collett, A.E. Cook, E. Solomon, F. S. Colwell, J. E. Johnson, D. Awwiller, I. Aylward, A.R. Bhandari, D. Brooks, A. Cardona, M. Casso, R. Coyte, T. Darrah, M. Davis, B. Dugan, D. Duncan, J. T. Germaine, M. Holland, J. Houghton, N. T. Mills, M. Mimitz, D. Minarich, Y. Morono, Z. Murphy, J. O'Connell, E. Petrou, T. Pettigrew, J. W. Pohlman, A. Portnov, M.P. Phillips, T. Redd, **D.E. Sawyer**, P. Schultheiss, K. Shannon, C. Sullivan, C. Small, K. Tozier, Man-Yin Tsang, C. Van Der Maal, W.F. Waite, T. Walton, 2024, *UT-GOM2-2 Preliminary Report Terrebonne Basin Northern Gulf of Mexico*, The University of Texas Institute for Geophysics, <https://doi.org/10.5281/zenodo.13648253>.
- [11] Ikehara, K., Strasser, M., Everest, J., Maeda, L., Hochmuth, K., and the Expedition 386 Scientists, 2023. *Expedition 386 Preliminary Report: Japan Trench Paleoseismology. International Ocean Discovery Program*. <https://doi.org/10.14379/iodp.pr.386.2023>.
- [10] Strasser, M., Ikehara, K., Everest, J., and the Expedition 386 Scientists, 2023. *Japan Trench Paleoseismology*. Proceedings of the International Ocean Discovery Program, 386: College Station, TX (International Ocean Discovery Program). <https://doi.org/10.14379/iodp.proc.386.2023>.
- [9] Heber, R., Cook, A., Sheets, J., and **Sawyer, D.**, 2020. *Data Report: X-Ray Diffraction of Sediments from Green Canyon Block 955, Gulf of Mexico*. In Flemings, P.B., Phillips, S.C., Collett, T., Cook, A., Boswell, R., and the UT-GOM2-1 Expedition Scientists, Proceedings of the UT-GOM2-1 Hydrate Pressure Coring Expedition: Austin, TX (University of Texas Institute for Geophysics, TX). <https://doi.org/10.2172/1648308>, 27 p.
- [8] Heber, R., Cook, A., Sheets, J., **Sawyer, D.**, 2020. *Data Report: High-Resolution Microscopy Images of Sediments from Green Canyon Block 955, Gulf of Mexico*. In Flemings, P.B., Phillips, S.C., Collett, T., Cook, A., Boswell, R., and the UT-GOM2-1 Expedition Scientists, Proceedings of the UT-GOM2-1 Hydrate Pressure Coring Expedition: Austin, TX (University of Texas Institute for Geophysics, TX). <https://doi.org/10.2172/1648312>, 6 p.
- [7] Flemings, P.B., R. Boswell, T. S. Collett, A. E. Cook, D. Divins, M. Frye, G. Guerin, D. S. Goldberg, A. Malinverno, K. Meazell, J. Morrison, T. Pettigrew, S. C. Philips, M. Santra, **D. E. Sawyer**, W. Shedd, C. Thomas, K. You, 2017, *GOM2: Prospecting, Drilling and Sampling Coarse-Grained*

- Hydrate Reservoirs in the Deepwater Gulf of Mexico*, Proceedings of the 9th International Conference on Gas Hydrates, Denver, CO, June 25-30, 2017.
- [6] **Sawyer, D.E.**, Flemings, P.B., Dugan, B., Shipboard Scientific Party, IODP Expedition 308, (2007), *Lateral Variations in Core, Log, and Seismic Attributes of a Mass Transport Complex in the Ursa Region, IODP Expedition 308, Northern Gulf of Mexico*, Proceedings of the Offshore Technology Conference, Houston, Texas, April 30-May 3, 2007, OTC Paper #19098. <https://doi.org/10.4043/19098-MS>.
- [5] Dugan, B., Flemings, P.B., **Sawyer, D.E.**, Iturrino, G.J., Moore, J.C., Schneider, J., (2007), *Physical Properties of Mass Transport Complexes in the Ursa Region, Northern Gulf of Mexico (IODP Expedition 308) Determined from Log, Core, and Seismic Data*, Proceedings of the Offshore Technology Conference, Houston, Texas, April 30-May 3, 2007, OTC Paper #18704. <https://doi.org/10.4043/18704-MS>
- [4] Iturrino, G.J., B. E. Dugan, **D.E. Sawyer**, P.B. Flemings, and J.C. Moore, *Interpretation of Downhole Measurements, Deformation Analyses, and Lithologic Characterization in the Ursa Basin, Gulf of Mexico*, Proceedings of the Offshore Technology Conference, Houston, Texas, April 30-May 03, 2007, OTC Paper # 19097. <https://doi.org/10.4043/19097-MS>.
- [3] Long, H., P.B. Flemings, J. Germaine, B. Dugan, and **D.E. Sawyer**, (2007), *In-Situ Pore Pressure at IODP Site U1324, Ursa Basin, Gulf of Mexico*, Proceedings of the Offshore Technology Conference, Houston, TX, April 30-May 03, 2007, OTC Paper # 18772. <https://doi.org/10.4043/18772-MS>.
- [2] Myers, G., C. Winker, B. Dugan, C. Moore, **D.E. Sawyer**, P. Flemings, G. Iturrino, (2007), *Ursa basin explorers shine new light on shallow water flow*, Offshore Engineer, Sept., 88-93.
- [1] Flemings, P.B., Germaine, J., Long, H., Dugan, B.D., **Sawyer, D.E.**, Behrmann, J., John, C., and the Shipboard Scientific Party, IODP Expedition 308, (2006), *Measuring Temperature and Pressure with the temperature two Pressure (T2P) Probe in the Ursa Basin, Gulf of Mexico: Development of a New Pressure and Temperature Probe for the IODP*, Offshore Technology Conference Paper # 17957. <https://doi.org/10.4043/17957-MS>.

FUNDED GRANTS AND FELLOWSHIPS

Summary of funded grants and fellowships: **\$1.2M** as sole or lead-PI; **\$2.1M** as co-PI; **\$95M** in educational software gift-in-kind value;

19. 7/23-6/28. *Influence of earthquake shaking and intrinsic physical properties on slope stability and paleoseismological studies in subduction zone settings*.
 Submitted to: United States Geological Survey
 Total award: \$500,000 (\$100,000 per year, up to 5 years of funding)
 PI: D. Sawyer, Co-PIs: none
 Explanation of role: I am lead PI. Collaborative with USGS Pacific Coastal and Marine Science Center
18. 3/23-2/24. *Sediment Shear Strength along Strike within Trench Basins: Insights into Earthquake Paleoseismology Proxies and Seismic Strengthening (IODP Expedition 386 Japan Trench Paleoseismology)*.
 Submitted to U.S. Science Support Program, Post-Expedition Activity
 Total award: \$19,404
 PI: D. Sawyer, Co-PIs: none
 Explanation of role: Project support for post-expedition science.
17. 2/22-3/22. *International Ocean Discovery Program Expedition 386, Japan Trench Paleoseismology*
 Science party member and group leader (physical properties) Salary Support.
 Submitted to: United States Science Support Program,
 Total award: \$34,800

PI: D. Sawyer; Co-PIs: none

Explanation of role: Group leader of physical properties and science party member during the Onshore Science Party (Feb-Mar. 2022).

16. 9/21-12/22. *Coastal Geology on Lake Erie (NSF GeoAllies Improving Diversity and Inclusion in Geosciences)*.
Submitted to National Science Foundation GeoAllies Project
Total Award: \$2,000
PI: D. Sawyer
Co-PIs: none
Explanation of role: I will manage the award and lead the field trip as part of my seminar course to be offered within the OSU School of Earth Sciences, fall, 2022.
15. 1/20-1/25. *CAREER: Impacts of Earthquake Shaking on Seafloor Sediment Stability and Landslide Hazards*, National Science Foundation,
Submitted to National Science Foundation, Marine Geology and Geophysics Program
Total Award Requested: \$558,710
PI: D. Sawyer
Co-PIs: None
Explanation of Role: I am the sole awardee on this 5-year grant.
14. 9/1/19-8/31/21. *Early Career Research Fellowship, National Academies of Sciences, Engineering, and Medicine, Gulf Research Program*
Total award: \$75,000
PI: Sawyer, Derek
Co-PI: none
Explanation of Role: I am the sole awardee on this 2-year fellowship.
13. 7/1/18-6/30/20. *Collaborative Research: Constraints on sediment physical properties at the Cape Fear and Currituck landslides from velocity analysis of new, open access seismic reflection data*. National Science Foundation.
Total award: \$446,713 (\$130,498 award to DS)
PI: Sawyer, Derek
Co-PI: none at Ohio State, Collaborative with Lamont Doherty Earth Observatory, Columbia University
Explanation of Role: I am sole PI at Ohio State. I am responsible for pore pressure prediction using inversion results generate by the Columbia team.
12. 10/1/17-9/30/18. *RAPID: Post-Hurricane Irma Erosion and Deposition in Coastal Embayments of Eastern St. John, U.S. Virgin Islands*.
Submitted to: National Science Foundation. \$52,835 total award.
PI: Sawyer, Derek
Role: Principal Investigator
Explanation of Role: I am the sole PI on this award. I conceived of the idea and wrote the proposal.
11. 2018-2021. *Educational Software Gift*, Schlumberger, (\$93M), software, 40 network licenses (PETREL, ECLIPSE, VISAGE, INTERSECT, PETROMOD, TECHLOG)
Co-PIs: D. Sawyer, A. Cook, J. Moortgat
10. 10/14-12/23. *Deepwater methane hydrate characterization and scientific assessment*.
Submitted to: U.S. Department of Energy.

Total Award: \$83.9M Total Award (\$2M USD to Ohio State; (750k to D.Sawyer))

PI: University of Texas at Austin (Flemings, Peter)

Award Co-PI: Cook, Ann, Goldberg, David, Divins, David, Collett Tim.

Ohio State Co-PI: D. Sawyer.

Role: Technical expertise in seismic data analysis, and well site planning, student co-supervision, expedition scientist

9. 10/15/2018 - 10/15/2021 *Educational Software Grant*
IHS software, 40 network licenses (KingdomSuite, AVOPAK, RSA, and LoadPAK)
Software gift-in-kind value: \$2.5M
Co-PI: A. Cook
I co-wrote the application process including with ASC development. I use this software in my 4-credit course Reflection Seismology (EARTHSC 5780).
8. 02/17-5/17. *Western North Atlantic Slope Stability: an IODP Workshop Proposal to Coalesce Three Mini-Proposals into a Full IODP Proposal*. U.S. Advisory Committee for Scientific Ocean Drilling (USAC).
Total award: \$22,762.
PI: Matthew Hornbach, Southern Methodist University
Co-PI: Sawyer, Derek, Hugh Daigle (University of Texas at Austin), and Jenna Hill (US Geological Survey).
7. 2016-2018. *Establishing an Industry Partnership*.
Ohio State Subsurface Energy Research Consortium (SERC).
Total award \$1,937
Co-PIs: Derek Sawyer, Ann Cook.
6. 7/1/2018-7/31/2019. *Enhancing the Educational Mission of SERC: Sedimentology and Stratigraphy of Mixed Carbonate-Siliciclastic Systems through Analysis of the Point Pleasant Formation and the Permian Guadalupe Mountains*
The Ohio State University Subsurface Energy Research Center (SERC) Faculty Fellowship Program
\$18,000 award to DS.
Explanation of role: I am the sole PI on this project. I conceived of the idea and wrote the proposal.
5. 8/1/16-7/30/18. *Seismicity-Enhanced Compaction in Fine-Grained Deepwater Sediments*.
Submitted to: American Chemical Society Petroleum Research Fund New Doctoral Investigator. Total award \$110,000.
PI: Sawyer, Derek
Explanation of Role: I am the sole PI on this project. I conceived of the idea and wrote the proposal.
4. 6/1/17-5/30-19. *Shake the Shoe: Connecting Football and Science with the Best Fans in the Land*.
Submitted to: Battelle Engineering Technology and Human Affairs (BETHA).
\$62,762 total award (all funds under my direction and it is all to purchase equipment, fund student workers, and purchase outreach materials).
PI: Sawyer, Derek
Co-PI: Ann Cook and Wendy Panero (Ohio State); Mike Brudzinski (Miami University)
Explanation of Role: I lead this project and presented the original idea and co-developed the idea with co-PIs.
3. 8/1/14-9/30/15. *Insight into Submarine Landslide Flow Behavior from Particle Size Analysis and 3D Seismic, Site C0021, IODP Expedition 338*.
Submitted to: Integrated Ocean Drilling Program through United States Science Support Program.

Total amount \$15,000

PI: Sawyer, Derek

Explanation of Role: I am the sole PI on this project. I conceived of the idea and wrote the proposal.

2. 2005-2008. *Particle Size Analysis of Sites U1324 and U1322, Ursa Basin, IODP Expedition 308.*

Submitted to: Post-cruise award. Joint Oceanographic Institution.

Total amount \$23,467

PI: Sawyer, Derek

Explanation of Role: I am the sole PI on this project. I conceived of the idea and wrote the proposal.

1. 2003-2004. *Consolidation and effective stress at ODP Leg 210, Site 1277.*

Submitted to: Joint Oceanographic Institution.

Total amount \$21,000

PI: Sawyer, Derek

Explanation of Role: Post-cruise award. I am the sole PI on this project. I conceived of the idea and wrote the proposal.

CONFERENCE AND MEETING ABSTRACTS

(*=graduate student or post-doc of D. Sawyer; **=undergraduate student of D. Sawyer)

- [83] **Niehaus, E., **D.E. Sawyer**, B. Fitzgerald, J. C. Hill, and D. F. Brothers, *Shallow subseafloor static and dynamic slope stability in Southern Cascadia*, American Geophysical Union Fall Meeting, December 18, 2025, New Orleans, Louisiana (poster), T43E-0200.

- [82] **Broome, A., **D. E., Sawyer**, and M. Strasser, *Core-log-seismic Integration of an Exceptionally Large Megabed in the Northern Japan Trench (International Ocean Discovery Program Expedition 386)*, American Geophysical Union Fall Meeting, December 16, 2025, New Orleans, Louisiana (poster), EP23C-1677.

- [81] **Sawyer, D.E.**, and **E. Niehaus, *Variations in Sidewall Steepness of Seafloor Canyons*, INCISE2025 – Submarine Canyon Symposium, Barcelona, Spain, June 16-19, 2025 (oral).

- [80] Portnov, A., and **D. E. Sawyer**, *Salt-driven submarine landslides induce tsunami waves in hypersaline anoxic brine pools*, 1st SaltAges Conference, Krakow, Poland, March 31 – April 03, 2025 (Oral)

- [79] **Sawyer, D.E.**, J. T. Germaine, A. Cardona, A. R. Bhandari, and P.B. Flemings, *Sediment Shear Strength Properties within the Hydrate Stability Zone: Results from the Gulf of Mexico Deepwater Hydrate Coring Expedition, Terrebonne Basin, Gulf of Mexico*, American Geophysical Union, Fall Meeting, December 13, 2024, Washington DC, (poster), OS51E-0737.

- [78] *Higgins, F., **Sawyer, D.E.**, R. Urgeles, *Properties and Origin of Megabeds in the Marsili Basin, Tyrrhenian Sea*, American Geophysical Union, Fall Meeting, December 13, 2024, Washington DC, (poster), NH51G-2478.

- [77] Keep, M., **D. E. Sawyer**, C. Pizer, M. Strasser, K. Ikehara, T. Rasbury, and Y. Nakamura, *Newly identified mud diapirism and surface eruption along the central Japan Trench axis: results from Exp.386.*, American Geophysical Union, Fall Meeting, December 13, 2024, Washington DC, (poster), PP51E-0584.

- [76] *Higgins, F., **Sawyer, D.E.**, R. Urgeles, *Composition of Marsili Basin Megabeds and Modeling Potential Origin from Campanian Ignimbrite Super Eruption*, The Geological Society of America Annual Meeting, September 24, 2024, Anaheim, CA, (poster), 191-2.
- [75] **Sawyer, D.E.**, and M. Strasser, *Sediment Shear Strength Development Within Terminal Basins of the Japan Trench and Lower Slope: Insights into Seismic Strengthening and Earthquake Paleoseismology From R/V Sonne Expedition So251 (Eager-Japan) and IODP Expedition 386*, Seismological Society of America Annual Meeting, Anchorage, Alaska, April 29 – May 03, 2024 (Oral).
- [74] *Fitzgerald B., **D. E. Sawyer**, J. Hill, D. Brothers, and D. Singleton, *Geotechnical Properties of Quaternary Marine Sediments of the Eel River Plateau, Southern Cascadia Margin*, Seismological Society of America Annual Meeting, Anchorage, Alaska, April 29 – May 03, 2024 (Poster).
- [73] *Castillo, M., **D. E. Sawyer**, M. Strasser, and M. Keep, *Beyond the Waves: Integrating Rock Physical Properties for Deeper Seismic Understanding*, Seismological Society of America Annual Meeting, Anchorage, Alaska, April 29 – May 03, 2024 (Oral).
- [72] *Castillo, M., **D. E. Sawyer**, *To the Subsurface and Beyond: Future Coupling of Planetary Geology, Remote Sensing and Scientific Ocean Drilling*, The Integrating Ocean Drilling and NASA Science: A Workshop to Explore Missions to Planet Earth, Washington DC, April 02- 04, 2024 (Poster).
- [71] **Sawyer, D.E.**, M. Strasser, and the IODP Expedition 386 Science Party, *Sediment Shear Strength Development within Terminal Basins of the Japan Trench: Insights into Seismic Strengthening and Earthquake Paleoseismology from R/V Sonne Expedition SO251 (EAGER-JAPAN) and IODP Expedition 386*, American Geophysical Union, Fall Meeting, December 13, 2023, San Francisco, CA (poster).
- [70] *Fitzgerald, B., **Sawyer, D. E.**, Reece, J. S., and Scott, W., *Shear Strength Development During Early Burial on Seismically Active Margins: A Geotechnical Investigation into Seismic Strengthening*, European Geophysical Union, April 2023 (Oral).
- [69] **Sawyer, D. E.**, R. Urgeles, C. Lo Iacono, *50,000 years of recurrent volcanoclastic megabed deposition in the Marsili Basin, Tyrrhenian Sea*, European Geophysical Union, April 2023 (Poster).
- [68] Chu, M., Strasser, M., Ikehara, K., Everest, J., Maeda, L., Hochmuth, K., Xu, L., McNichol, A., Bellanova, P., Rasbury, T., Koelling, M., Riedinger, N., Johnson, J., Luo, M., Marz, C., Straub, S., Jitsuno, K., Brunet, M., Cai, Z., Cattaneo, A., Hsiung, K., Ishizawa, T., Itaki, T., Kanamatsu, T., Keep, M., Kioka, A., McHugh, C., Micallef, A., Pandey, D., Proust, J.N., Satoguchi, Y., **Sawyer, D.E.**, Seibert, C., Silver, M., Virtasalo, J., Wang, Y., Wu, T.-W., Zellers, S., and Bao, R., *Dissolved carbon storage in hadal trench sediments*, Abstract no. 16366, Goldschmidt 2023 Conference, Lyon, France.

- [67] Portnov, A., K. You, P. Flemings, A. Cook, M. Heidari, **D. E. Sawyer**, and S. Bunz, 2023, *Dating submarine landslides using the transient response of gas hydrate stability*, Oral presentation at the 10th International Conference on Gas Hydrates (ICGH10), Singapore 2023.
- [66] *Fitzgerald, B., **Sawyer, D. E.**, Reece, J. S., and Scott, W., *Shear Strength Development During Early Burial on Seismically Active Margins: A Geotechnical Investigation into Seismic Strengthening*, American Geophysical Union Fall Meeting, Chicago, IL, December 2022 (Poster).
- [65] **Sawyer, D. E.**, *Seismic Strengthening: Impacts on Slope Stability and Post-Failure Behavior of Submarine Landslides*, International Conference on Seafloor Landforms, Processes, and Evolution, Malta, July 4-6, 2022, Invited (Oral).
- [64] *Fillingham, J. and **D. E. Sawyer**, *Undulating sediments of the Cape Fear submarine landslide system, offshore U.S. Atlantic margin*, June 2021 (Virtual), 9th International Conference on Submarine Mass Movements and their Consequences, (Poster).
- [63] Obelcz, J., W. Wood, T. Lee, B. Phrampus, **D.E. Sawyer**, *Global Analysis of Predicted Geotechnical Sediment Properties and Observed Continental Margin Landslide Scarring*, June 2021, (Virtual), 9th International Conference on Submarine Mass Movements and their Consequences, (Poster).
- [62] *Fillingham, J. and **D. E. Sawyer**, *Undulating sediments of the Cape Fear submarine landslide system, offshore U.S. Atlantic margin*, Dec. 16, 2020 (Virtual), American Geophysical Union, Fall Meeting abstract EP065-09, (Poster).
- [61] Dugan, B., M. Strasser, and **D. E. Sawyer**, *Submarine Landslide Exploration through Scientific Drilling, Seismic Data, and Numerical Modeling*, Dec. 10, 2020 (Virtual), American Geophysical Union, Fall Meeting abstract OS026-02, (Poster).
- [60] Obelcz, J., W. T. Wood, B. J. Phrampus, **D. E. Sawyer**, and T. R. Lee, *Global analysis of relationship between continental margin submarine landslide scarring and sediment shear strength*, Dec. 09, 2020 (Virtual), American Geophysical Union, Fall Meeting abstract EP021-0003, (Poster).
- [59] *Browning, T.N., and **D. E. Sawyer**, (2019), *Assessing Vulnerability of Tropical Watershed Erosion and Coastal Deposition with a Simple, Open-Source, GIS-Based Method*, Dec. 10, 2019, San Francisco, CA, American Geophysical Union Fall Meeting, abstract EP23E-2244, (Poster).
- [58] *Portnov, A., A. Cook, M. Santra, and **D. E. Sawyer**, (2019), *Geological controls on a new gas hydrate system Jackalope in the northern Gulf of Mexico*, Dec. 12, 2019, San Francisco, CA, American Geophysical Union Fall Meeting, abstract OS41B-1667, (Poster).
- [57] Fortin, W., J.C. Gibson, A. Becel, D. J. Shillington, **D. E. Sawyer**, *J. Fillingham, (2019) *Sediment Physical Properties at Cape Fear and Currituck Landslides: prestack waveform inversion velocity analysis*, Dec. 13, 2019, San Francisco, CA, American Geophysical Union Fall Meeting, (Poster).

- [56] **Sawyer, D. E.**, (2019), *Earthquakes and Submarine Landslides on Continental Margins: Seismic Strengthening Versus Rapid Sedimentation*, seminar presented to Department of Geology, Kent State University, November 01, Kent, Ohio, (Invited, Oral).
- [55] Brown, A, D. Knights, A.H. Sawyer, **D.E. Sawyer**, D.A. Edmonds, R. T. Barnes, (2019) *Characterization of Surficial Sediments from a Modern Delta Wetland*, Fall AAPG Regional Conference, October 15, 2019. Columbus, Ohio, (poster).
- [54] **Sawyer, D.E.**, (2019, April), *Earthquakes and Submarine Landslides on Continental Margins: Seismic Strengthening Versus Rapid sedimentation*, seminar presented to Department of Earth and Atmospheric Sciences, Indiana University, April 08, Bloomington, Indiana (Invited, Oral).
- [53] **Sawyer, D.E.**, (2019, February), *Waves: examples in earthquakes, tsunamis, and underwater landslides*, Presented at Ohio State STEAM Exchange series, Feb. 21, 2019, Columbus, Ohio (Invited, Oral).
- [52] *Browning, T.B. **D. E. Sawyer**, G. B. Brooks, C. Ramos-Scharron, (2019, February), *Widespread Deposition in Coastal St. John, USVI Following Three Major 2017 Hurricane Events (Irma, Jose, and Maria)*, American Society of Limnology and Oceanography, San Juan, Puerto Rico, Feb. 20-25, 2019 (Oral).
- [51] **Sawyer, D.E.**, (2019, February), *Earthquakes and Submarine Landslides on Continental Margins*, Van Tuyl Lecture Series, presented to Department of Geology and Geological Engineering, Colorado School of Mines, February 14, Golden, Colorado (Invited, Oral).
- [50] **Sawyer, D.E.**, (2019, February), *Retrogressive Submarine Landslides*, seminar presented to Department of Geological Sciences, Colorado School of Mines, February 15, Golden, Colorado (Invited, Oral).
- [49] *Portnov, A., A. Cook, U. Majumdar, and **D. E. Sawyer**, (2018, December), *Underexplored gas hydrate reservoirs associated with salt diapirism and turbidite deposition in the Northern Gulf of Mexico*, Dec. 10-14, 2018, Washington DC, American Geophysical Union Fall Meeting, (Poster).
- [48] **Sawyer, D. E.**, *Browning, T.N., Brooks, G.R., Larson, R.A., and Ramos-Scharron, C., (2018, September), *Rapid Response to Document Seafloor Sedimentation After the 2017 Hurricanes (Irma, Jose, Maria) in Coral Bay, St. John, US Virgin Islands*, seminar presented at the University of Southern Mississippi, School of Ocean Science and Technology, September 07, Stennis, Mississippi, (Invited, Oral).
- [47] **Sawyer, D.E.**, (2018, May), *Interplay of Salt Tectonics, Gas Hydrates, and Submarine Landslides in the Hypersaline Orca Basin Brine Pool, Gulf of Mexico, Continental Slope*, May 06 – 12, 2018, Victoria, British Columbia, Canada, (Poster).
- [46] *Lenz, B.L., **D. E. Sawyer**, B. Phrampus, K. Davenport, and A. Long, (2018, May), *Seismic Imaging of Seafloor Deformation Induced by Impact from Large Submarine Landslide Blocks, Offshore Oregon*, May 06 – 12, 2018, Victoria, British Columbia, Canada, (Poster).

- [45] **Sawyer, D.E.**, (2018, March), *Earthquakes and Submarine Landslides on Continental Margins*, seminar presented to Department of Geological Sciences, Ohio University, March 30, Athens, Ohio (Invited, Oral).
- [44] **Sawyer, D.E.**, (2018, February), *Marine Slope Stability Hazards, an Industry Perspective*, Gordon Research Conference on Natural Gas Hydrate Systems, Feb. 25 – Mar. 02, 2018, Galveston, Texas, (Invited, Oral).
- [43] **Sawyer, D.E.**, *R. Alan Mason, A.E. Cook, *A. Portnov, and *J.I.T Hillman, (2017, December), *Hydrate-bearing Submarine Landslides in the Orca Basin, Walker Ridge, Gulf of Mexico Continental Slope*, abstract # OS42A-02, American Geophysical Union Fall Meeting, New Orleans, LA, December 11-15, 2017, (Invited, Oral).
- [42] **Sawyer, D.E.**, R. Reece, S.P.S. Gulick, and *B. Lenz, (2017, December), *Submarine Landslide Hazards Offshore Southern Alaska: Seismic Strengthening Versus Rapid Sedimentation*, abstract # NH53B-0148, American Geophysical Union Fall Meeting, New Orleans, LA, December 11-15, 2017, (Poster).
- [41] *Russell, P., **D. E. Sawyer**, *T. N. Browning, G. Brooks, A. Cook, N. Kinash, (2017, December), *Tsunami Stratigraphy in a Coastal Salt Pond, St. Croix, US Virgin Islands*, abstract # NH23A-0223, American Geophysical Union Fall Meeting, New Orleans, LA, December 11-15, 2017, (Poster).
- [40] *Browning, T.N., **D. E. Sawyer**, and *P. Russell, (2017, December), *Illuminating Sediment Transport Pathways From Source to Sink with Multibeam Bathymetry Data: Coral Bay, St. John USVI*, abstract # EP31C-1886, American Geophysical Union Fall Meeting, New Orleans, LA, December 11-15, 2017, (Poster).
- [39] *Browning, T. N., **D. E. Sawyer**, and *P. Russell, (2017, December), *Coastal Sediment Distribution Patterns Following Category 5 Hurricanes (Irma and Maria): Pre and Post Hurricane High Resolution Multibeam Surveys of Eastern St. John, US Virgin Islands*, abstract # NH23E-2802, American Geophysical Union Fall Meeting, New Orleans, LA, December 11-15, 2017, (Poster).
- [38] Moore, M.T., T. Darrah, A. Cook, **D. E. Sawyer**, S. Phillips, C. Whyte, B. Lary, (2017, December), *The genetic source and timing of hydrocarbon formation in gas hydrate reservoirs in Green Canyon, Block GC955*, abstract # OS44A-03, American Geophysical Union Fall Meeting, New Orleans, LA, December 11-15, 2017, (Oral).
- [37] Heber, R., N. Kinash, A. Cook, **D. E. Sawyer**, J. Sheets, and J. Johnson, (2017, December), *Mineralogy of Gas Hydrate Bearing Sediment in Green Canyon Block 955 Northern Gulf of Mexico*, abstract # OS53B-1206, American Geophysical Union Fall Meeting, New Orleans, LA, December 11-15, 2017, (Poster).
- [36] Kinash, N., A. Cook, **D. E. Sawyer**, and R. Heber, (2017, December), *Recovery and Lithologic Analysis of Sediment from Hole UT-GOM2-1-H002, Green Canyon 955, Northern Gulf of Mexico*, abstract # OS53B-1207, American Geophysical Union Fall Meeting, New Orleans, LA, December 11-15, 2017, (Poster).

- [35] **Sawyer, D.E.**, A.E. Cook, R. Alan Mason, and J.I.T Hillman, (2017), *Hydrate-bearing Submarine Landslides in the Orca Basin, Walker Ridge, Gulf of Mexico Continental Slope*, 9th International Conference on Gas Hydrates, Denver, CO, June 25-29, 2017, (Oral).
- [34] **Sawyer, D.E.**, A. Cook, and R. Mason, (2017), *Submarine Landsliding into the Orca Basin Brine Pool, Walker Ridge, Gulf of Mexico*, American Association of Petroleum Geologists Annual Convention, Houston, TX, April 02-05, 2017, (Poster).
- [33] **Sawyer, D.E.**, and J.R. DeVore*, (2016), *Elevated Shear Strength of Near-Seafloor Sediments on Active Margins: Evidence for Seismic Strengthening*, American Geophysical Union Fall Meeting, San Francisco, CA, abstract #187943, Dec. 12-16, 2016, (Oral).
- [32] **Sawyer, D.E.**, and J.R. DeVore*, (2016), *Evidence for Seismic Strengthening from Undrained Shear Strength Measurements*, Geological Society of America Annual Meeting, Denver, CO, Sep. 25-28, 2016, (Oral).
- [31] **Mason, R.A., and **D. E. Sawyer**, (2016), *Seafloor Brine Lake Impacted by Submarine Landsliding: An Example from the Orca Basin, Walker Ridge, Northern Gulf of Mexico Continental Slope*, Geological Society of America Annual Meeting, Denver, CO, Sep. 28, 2016, (poster).
- [30] **Sawyer, D.E.**, L. Akinci*, M. Nikolinakou, and M. Heidari, (2016), *Hydrates, Salt Diapirism, and Submarine Landsliding at Cape Fear, Offshore, North Carolina, U.S.A.*, Gordon Research Conference, Galveston, TX, Feb. 28 – Mar. 04, (poster).
- [29] *Treiber, K., **D.E. Sawyer**, and A. Cook, (2016), *Geophysical Interpretation of Gas Hydrates in Green Canyon Block 955, Northern Gulf of Mexico, USA*, Gordon Research Conference, Galveston, TX, Feb. 28 – Mar. 04, (poster).
- [28] *Yang, C., A. Cook, and **D.E. Sawyer**, (2016), *Geophysical and Petrophysical Interpretation of the Gas Hydrate Reservoir System at Perdido, North Gulf of Mexico Slope*, Gordon Research Conference, Galveston, TX, Feb. 28 – Mar. 04, (poster).
- [27] Hillman, J.T., A. Cook, and **D. E. Sawyer**, (2016), *Mapping and Characterizing Bottom-Simulating Reflectors in 2D and 3D Seismic Data to Investigate Connections to Lithology and Frequency Dependence*, Gordon Research Conference, Galveston, TX, Feb. 28 – Mar. 04, (poster).
- [26] **Sawyer, D.E.**, L. Akinci, M. Nikolinakou, and M. Heidari, (2015), *Links and Feedbacks between Salt Diapirs, Hydrates, and Submarine Landslides: Example from Cape Fear, offshore North Carolina, U.S.A.*, (Poster), Abstract EP23D-0997, AGU Fall Meeting, San Francisco, CA.
- [25] *Browning, T.N., **D. E. Sawyer**, G.R. Brooks, R. A. Larson, B. O'Donnell, J. Hadfield (2015), *Linking Source and Sink: Watershed Evaluation and Mineralogical Distribution of Sediments in Eastern St. John, USVI*, (poster), abstract # 212-4, Geological Society of America, Baltimore, Maryland, Nov.1-4.
- [24] **Sawyer, D.E.**, and B.N Hodelka, (2015) *Tiny fossils, big impact: the role of foraminifera-enriched condensed section in arresting the movement of a large retrogressive submarine landslide in the Gulf of Mexico*, in proceedings of the 7th International Symposium on Submarine Mass Movements and Their Consequences, Wellington, NZ, (oral).

- [23] *Akinci, L. and **D.E. Sawyer**, (2015), *Salt Diapirism and Slope Failure in the Carolina Trough, Eastern North American Margin*, (oral) in proceedings of the 7th International Symposium on Submarine Mass Movements and Their Consequences, Wellington, NZ, (oral).
- [22] *Devore, J. and **D.E. Sawyer**, (2015), *Shear Strength of Siliciclastic Sediments from Passive and Active Margins (0-100 meters below seafloor): Insights into Seismic Strengthening*, in proceedings of the 7th International Symposium on Submarine Mass Movements and Their Consequences, Wellington, NZ, (oral).
- [21] **Sawyer, D.E.**, (2015), *New Seismic Imaging of the Eastern North Atlantic Margin Offshore North Carolina and Virginia*, Rice University, Industry-Rice Earth Science Symposium, March 11, 2015, (oral).
- [20] **Sawyer, D.E.**, (2015), *The Role of Slope Failures in Geohazards and Continental Margin Morphology*, Coastal Carolina University, Conway, SC, April 02, (oral).
- [19] **Sawyer, D.E.**, (2015), *Dynamics of Retrogressive Submarine Landslides*, Texas A&M University, College Station, TX, April 15, (oral).
- [18] **Sawyer, D.E.**, and Z.T. Moore, (2014), *Assessing the Relative Mobility of Submarine Landslides from Deposit Morphology and Physical Properties: an Example from Nankai Trough, Offshore Japan*, Abstract OS33A-1044, AGU Fall Meeting, San Francisco, CA, Dec. 17, (poster).
- [17] **Hodelka, B.N., and **D. E. Sawyer**, (2014), *Tiny Fossils, Big Impact: Sedimentology of a Foraminifera-Enriched Detachment Horizon of a Large Retrogressive Submarine Landslide in the Gulf of Mexico*, abstract OS33A-1043, AGU Fall Meeting, San Francisco, CA, Dec. 17, (poster).
- [16] **Sawyer, D.E.**, (2014), (Invited), *The Role of Dynamic Sedimentary Systems on Geohazards and Energy Exploration*, The Ohio State University, School of Earth Sciences (oral).
- [15] **Sawyer, D. E.**, and Z.T. Moore, (2013), *Dynamics of Submarine Landslides in an Active Margin from Analysis of Particle Size, Cores, and 3D Seismic Data: Site C0021, IODP Expedition 338, Offshore Japan*, abstract T31F-2577, AGU Fall meeting, San Francisco, CA, Dec. 9-13, (Oral).
- [14] **Sawyer, D.E.**, and P. B. Flemings, (2013), *Pore Pressure Rebound and Long-Term Instability in Retrogressive Submarine Landslides*, (Poster), no. 105, 6th International Symposium on Submarine Mass Movements and Their Consequences, Kiel, Germany, Sep. 22-26.
- [13] Moore, Z.T., and **D. E. Sawyer**, (2013), *Dynamics of Submarine Landslides in an Active Margin from Analysis of Particle Size, 3D Seismic, and Logs: IODP Expedition 338, Nankai Trough, Offshore Japan*, (Poster), no. 89, 6th International Symposium on Submarine Mass Movements and Their Consequences, Kiel, Germany, Sep. 22-26.
- [12] **Sawyer, D. E.**, P. B. Flemings, D. Mohrig, and J. Buttles, (2012), *Post-failure Transport Behavior and Deposit Morphology in Subaqueous Mudflow Experiments: Interpreting Failure Process from Morphology*, (Oral), abstract OS44A-02, AGU Fall Meeting, San Francisco, CA, Dec. 3-7.

- [11] **Sawyer, D.E.**, P.B. Flemings, M.A. Nikolinakou (2011), *Growth, Failure, and Erosion of Submarine Channel Levees on the Upper Mississippi Fan, Gulf of Mexico*, (Poster), abstract EP33C-0928, AGU Fall Meeting, San Francisco, CA, Dec. 5-9.
- [10] **Sawyer, D.E. (Invited)**, P.B. Flemings, B. Dugan, (2010), *Slope Failure on Passive Continental Margins: Insights from IODP Expedition 308, Northern Gulf of Mexico*, (Oral), 18th International Sedimentological Congress, Mendoza, Argentina, Sep. 26-Oct. 01.
- [9] **Sawyer, D.E.**, P.B. Flemings, D. Mohrig, J. Buttles, (2009), *An Experimental Study of Pore Pressure in Fine Grained Retrogressive Subaqueous Landslides*, AGU, 90(52), Fall Meeting, Abstract NH41C-1269, San Francisco, CA, Dec. 14-19.
- [8] **Sawyer, D.E.**, Flemings, P.B., and Mohrig, D., (2009), *Subaqueous Landslides in Clay-Rich Systems*, (Poster), 4th International Symposium on Submarine Mass Movements and Their Consequences, Austin, TX, Nov. 7-11.
- [7] **Sawyer, D.E. (Outstanding Student Paper Award)**, Flemings, P.B., Dugan, B., Germaine, J.T., (2008), *Formation of Debris Flows from Strain Weakening: Examples from the Ursa Basin, Northern Gulf of Mexico*, (Poster), Eos Trans. AGU, 89 (53), Fall Meet. Suppl., Abstract H51F-0910, San Francisco, CA, Dec. 15-19.
- [6] **Sawyer, D.E.**, Flemings, P.B., Dugan, B., (2008), *Retrogressive Failure, Seismic Facies, and Densification in MTCs, Ursa Basin, Gulf of Mexico*, (Poster), Geological Society of America, Houston, TX, Oct. 05.
- [5] **Sawyer, D.E.**, Flemings, P.B., Dugan, B., (2008), *Retrogressive Failure, Seismic Facies, and Densification in MTCs, Ursa Basin, Gulf of Mexico*, (Oral) 33rd International Geological Congress, Oslo, Norway, Aug. 06-14.
- [4] **Sawyer, D.E.**, (2007), *Lateral Variations in Core, Log, and Seismic Attributes of a Mass Transport Complex in the Ursa Region, IODP Exp. 308, Northern Gulf of Mexico*, (Oral) Offshore Technology Conference, Houston, TX, May 02.
- [3] **Sawyer, D.E.**, Shipp, C., Flemings, P.B., Behrmann, J., John, C., and the Shipboard Scientific Party, IODP Exp. 308, (2006), *Lateral Variations in Log, Core, and Seismic Attributes of a Mass Transport Deposit in the Mars-Ursa Region, Mississippi Canyon, Northern Gulf of Mexico*, (Poster), American Association of Petroleum Geologists, Annual Convention, Houston, TX, Apr. 9-12.
- [2] **Sawyer, D.E. (Outstanding Student Paper Award)**, Shipp, C., Flemings, P.B., Behrmann, J., John, C., and the Shipboard Scientific Party, IODP Exp 308, (2005), *Mass Transport Deposits in the Ursa Region: 3-D Seismic Images and Physical Properties from IODP Exp. 308, Sites U1322, U1323, and U1324*, (Oral), American Geophysical Union, Fall Meeting, Abstract OS21A-1510, San Francisco, CA, Dec. 5-9.
- [1] **Sawyer, D.E.**, and Flemings, P.B, (2004), *Overpressure, Low Effective Stress, and Slope Failures in the Ursa Region, Deep-Water Gulf of Mexico*, (Poster), Eos Trans. AGU, 85(47), Fall Meet. Suppl., Abstract OS23B-1308, San Francisco, CA, Dec. 13-17.

INVITED TALKS AND SEMINARS

- Sawyer, D. E.,** (2025), *Unraveling the Depths: Deciphering Marine Records of Earthquakes, Volcanoes, and Landslides and their Impacts on Life*, Seminar presented at the Institute of Marine Sciences, Barcelona, Spain, Feb. 07, 2025.
- Sawyer, D. E.,** (2025), *Unraveling the depths: Deciphering marine records of earthquakes, volcanoes, and landslides and their impacts on life*, Seminar presented at the University of Bergen, Department of Earth Science, Bergen, Norway, Feb. 05, 2025.
- Sawyer, D.E.,** (2023), *Relationships Between Earthquake Shaking and Underwater Landslides from Scientific Ocean Drilling, Seismic Data, and Experiments*, Seminar presented at the University of Cincinnati Geosciences Colloquium Series, Sep. 29, 2023.
- Sawyer, D. E.,** (2023), *Waves: Using and Studying Waves on our Dynamic Planet*, Seminar presented at the Science Café Series at The Ohio State University, Oct. 18, 2023.
- Sawyer, D. E.,** (2022), *Seafloor sedimentation, sediment mobility, and landslide potential*, Office of Naval Research Workshop on Deep Sea Benthic Oceanography and Seafloor Geodesy: Geophysical Characterization and Change Detection, September 07, 2022, Arlington, VA
- Sawyer, D. E.,** (2022), *Seismic Strengthening: Impacts on Slope Stability and Post-Failure Behavior of Submarine Landslides*, International Conference on Seafloor Landforms, Processes, and Evolution, Malta, July 4-6, 2022, Invited (Oral).
- Sawyer, D. E.,** (2022), *Shear Strength Properties of Deep Marine Sediments: Impacts on Slope Stability and Post-Failure Behavior of Submarine Landslides*, invited webinar presented at AAPG Petroleum Structure and Geomechanics Division Seminar Series, April 28, 2022.
- Sawyer, D. E.,** (2021), *Seismic Strengthening: Impacts on Slope Stability and Post-Failure Behavior of Submarine Landslides*, seminar presented to Slate - Submarine Landslides and their impact on European continental margins seminar series, seminar #20, October 27, 2021, (Invited, live webinar).
- Sawyer, D. E.,** (2021), *Impacts of earthquake shaking on seafloor sediment stability and landslide hazards*, seminar presented to The United States Geological Survey Pacific Coastal & Marine Science Center Seminar Series, September 21, 2021, (Invited, live webinar).
- Sawyer, D. E.,** (2019), *Earthquakes and Submarine Landslides on Continental Margins: Seismic Strengthening Versus Rapid Sedimentation*, seminar presented to Department of Geology, Kent State University, November 01, Kent, Ohio, (Invited, Oral).
- Sawyer, D. E.,** (2019), *3D Seismic Mapping of Hydrate-Bearing Reservoirs: Examples from the Deepwater Gulf of Mexico*, webinar presented to Schlumberger, July 23, 2019 (Invited, live webinar).

- Sawyer, D.E.**, (2019), *Earthquakes and Submarine Landslides on Continental Margins: Seismic Strengthening Versus Rapid Sedimentation*, seminar presented to Department of Earth and Atmospheric Sciences, Indiana University, April 08, Bloomington, Indiana (Invited, Oral).
- Sawyer, D.E.**, (2019), *Earthquakes and Submarine Landslides on Continental Margins*, Van Tuyl Lecture Series, presented to Department of Geology and Geological Engineering, Colorado School of Mines, February 14, Golden, Colorado (Invited, Oral).
- Sawyer, D.E.**, (2019), *Retrogressive Submarine Landslides*, seminar presented to Department of Geological Sciences, Colorado School of Mines, February 15, Golden, Colorado (Invited, Oral).
- Sawyer, D.E.**, (2019), *Waves: examples in earthquakes, tsunamis, and underwater landslides*, Presented at Ohio State STEAM Exchange series, Feb. 21, 2019, Columbus, Ohio (Invited, Oral).
- Sawyer, D. E.**, *Browning, T.N., Brooks, G.R., Larson, R.A., and Ramos-Scharron, C., (2018), *Rapid Response to Document Seafloor Sedimentation After the 2017 Hurricanes (Irma, Jose, Maria) in Coral Bay, St. John, US Virgin Islands*, seminar presented at the University of Southern Mississippi, School of Ocean Science and Technology, September 07, Stennis, Mississippi, (Invited, Oral).
- Sawyer, D.E.**, (2018), *Marine Slope Stability Hazards, an Industry Perspective*, Gordon Research Conference on Natural Gas Hydrate Systems, Feb. 25 – Mar. 02, 2018, Galveston, Texas, (Invited, Oral).
- Sawyer, D.E.**, *R. Alan Mason, A.E. Cook, *A. Portnov, and *J.I.T Hillman, (2017), *Hydrate-bearing Submarine Landslides in the Orca Basin, Walker Ridge, Gulf of Mexico Continental Slope*, abstract # OS42A-02, American Geophysical Union Fall Meeting, New Orleans, LA, December 11-15, 2017, (Invited, Oral).
- Sawyer, D.E.**, (2015), *New Seismic Imaging of the Eastern North Atlantic Margin Offshore North Carolina and Virginia*, Rice University, Industry-Rice Earth Science Symposium, March 11, 2015, (Invited, oral).
- Sawyer, D.E.**, P.B. Flemings, B. Dugan, (2010), *Slope Failure on Passive Continental Margins: Insights from IODP Expedition 308, Northern Gulf of Mexico*, (Oral), 18th International Sedimentological Congress, Mendoza, Argentina, Sep. 26-Oct. 01.

FIELD WORK, EXPEDITIONS, AND EDUCATIONAL FIELD TRIPS

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| 2025 | Co-led 5-day field trip “ <i>Advanced Stratigraphy in the Guadalupe Mountains</i> ,” October 15-19, 2025, 8 students. |
| 2025 | Led weekend field trip “ <i>Paleozoic Stratigraphy in Ohio: Hocking Hills Caesar Creek</i> ,” April 12-13, 2025, 14 students. |
| 2024 | Co-led weekend field trip “ <i>Coastal Hydrogeology at Old Woman Creek State Nature Preserve and Bluff Erosion Processes along the Ohio Lake Erie Shoreline</i> ,” September 7-8, 2024, 9 students. |

- 2024** Led weekend field trip “*Paleozoic Stratigraphy of SW Ohio: Ordovician and Silurian Formations at Caesar Creek State Park and John Bryan State Park, and Devonian Stratigraphy of Central Ohio: Ohio and Olentangy Shales and Cuyahoga Formations,*” April 6-7, 2024, 14 students.
- 2023** Shorebased scientist UT-GOM2-2: Gulf of Mexico Deepwater Hydrate Coring Expedition, September 18 - 27 (dockside work). <https://ig.utexas.edu/energy/gom2-methane-hydrates-at-the-university-of-texas/gom2-2-expedition/>.
- 2023** Shipboard scientist, *UT-GOM2-2: Gulf of Mexico Deepwater Hydrate Coring Expedition*, Terrebonne Basin, Walker Ridge Block 313, Lead on shear strength measurements on conventional piston cores and conventionalized pressure cores. July 31- August 16 (at sea), Helix *Q4000*. <https://ig.utexas.edu/energy/gom2-methane-hydrates-at-the-university-of-texas/gom2-2-expedition/>.
- 2023** Led class trip “*Paleozoic Stratigraphy of SW Ohio: Ordovician and Silurian Formations at Caesar Creek State Park and John Bryan State Park,*” April 08, 2023, 25 students.
- 2023** Led field trip “*Devonian Stratigraphy of Central Ohio: Ohio and Olentangy Shales and Cuyahoga Formations,*” April 15, 2023, 25 students.
- 2023** Led field trip “*The Fossiliferous Columbus Limestone at Quarry Trails Metro Park,*” March 08, 2023, 25 students.
- 2023** Led field trip “*Concretions and Fissility of the Ohio Shale at Shale Hollow Metro Park,*” March 01, 2023, 25 students.
- 2022** Group Leader, Physical Properties Specialist, *International Ocean Discovery Program, Expedition 386, Japan Trench Paleoseismology*, Shimizu, Japan, *D/V Chikyu* (dockside), November 11 - 25.
- 2022** Led field trip to underground salt mine in New York, American Rock Salt mine, Mt. Morris, New York. Toured the active salt mine 1200 feet subsurface, 12 students.
- 2022** Led field trip to Lake Erie, “*Coastal Erosion and Mitigation along the Ohio Lake Erie Shoreline (Huron to Conneaut),*” September 16 – 18. 8 students.
- 2020** Led field trip “*Paleozoic Stratigraphy of SW Ohio: Ordovician and Silurian Formations at Caesar Creek State Park and John Bryan State Park,*” October 10th. 10 students.
- 2019** Led field trip “*Advanced Stratigraphy of the Permian, Guadalupe Mountains, New Mexico and Texas,*” March 11 - 16. 9 students.
- 2019** Co-led field trip and core display of the “*Serpent Mound Impact Structure, Peebles, Ohio,*” for the Eastern Section of the Seismological Association of America meeting, November 03, 2019.
- 2017** *Rapid deployment field excursion to St. John, U.S. Virgin Islands following 2017 Hurricanes.* Coastal multibeam acoustic sonar surveying in shallow-draft vessel, sediment grab sampling and push coring. November 22 – December 06.

- 2017** *Multibeam sonar mapping and sediment coring in St. John and St. Croix, U.S. Virgin Islands. July 26 - August 02.*
- 2017** Led field trip to Lake Erie, *South Bass Island, multibeam surveying and sediment sampling. September 15 - 17.*
- 2014** Shipboard scientist, *R/V Marcus G. Langseth, GeoPRISMS Eastern North American Community Seismic Experiment, offshore U.S. Atlantic Margin, September 14 – October 23.*
- 2014** Led weekend field trip to *Pine Mountain thrust fault, Cumberland Gap, Tennessee, April 18 + 19.*
- 2013** Shorebased participant and sampling party member, IODP Expedition 338, *NanTroSEIZE Stage 3: NanTroSEIZE plate boundary deep riser 2.*
- 2012** Operations geologist and wellsite pore pressure surveillance lead, exploration well, offshore Romania, Black Sea, *D/V Deepwater Champion, ExxonMobil, January 07 – 21.*
- 2011** Operations geologist and wellsite pore pressure surveillance lead, Hadrian Project, Gulf of Mexico, *D/V Maersk Developer, ExxonMobil, July 10 – 20.*
- 2005** Shipboard sedimentologist for Integrated Ocean Drilling Program Expedition 308, *Gulf of Mexico Hydrogeology, Mississippi Canyon and Brazos-Trinity Protraction Areas, D/V JOIDES Resolution, May 30 – July 08.*
- 2004** Seismic reflection acquisition cruise, Mississippi Canyon, deepwater Gulf of Mexico, BP, June 10 -17.
- 2004** ExxonMobil field stratigraphy course to Guadalupe Mountains (1 week). Team-based geology problem sets in sequence stratigraphy, exploration-scale predictions, and paleogeographic reconstructions.
- 2003** Shipboard physical properties specialist on Ocean Drilling Program Leg 210, offshore Newfoundland, *D/V JOIDES Resolution, July 28 – September 06.*
- 2002** Penn State University Summer Field Camp (8 weeks). Field exercises in sequence stratigraphy, glacial mapping, geomorphic evolution, and tectonics across the western U.S.
- 2000-2002** Undergraduate research field assistant: I participated in 4 vibra-coring day trips in Tampa Bay, 2 dive operations to ledges in the Gulf of Mexico, and 4 multi-beam/side scan sonar/dive-ops cruises in Gulf of Mexico with the University of South Florida and Eckerd College.

GRADED COURSES TAUGHT

Fall, 2025	Advanced Stratigraphy of the Guadalupe Mountains (ES 8800) Co-instructor (w/ Matthew Saltzman) Graduate, 8 students
Spring, 2025	Sedimentation and Stratigraphy (ES 4502/6502) Undergraduate/graduate, 14 students (13 UG, 1 G)

Fall, 2024	Reflection Seismology (ES 5780) Lecture and Lab Graduate and undergraduate course, 11 students, SEI overall score (0-5.0): 5.00
Fall, 2024	Coastal Geology and Hydrogeology Seminar (ES 8801-10) Co-instructor with Audrey Sawyer Graduate course, 8 students, SEI overall score (0-5.0): 5.00
Spring, 2024	Sedimentation and Stratigraphy (ES 4502/6502) Undergraduate/graduate, 15 students (15 UG, 2 G) SEI overall score (0-5.0): 5.0
Spring, 2023	Sedimentation and Stratigraphy (ES 4502/6502) Undergraduate/graduate, 17 students (15 UG, 2 G) SEI overall score (0-5.0): 5.0
Fall, 2022	Reflection Seismology (ES 5780) Lecture and Lab Graduate and undergraduate course, 12 students, SEI overall score (0-5.0): 4.86
Fall, 2022	Coastal Geology (ES 8801-10) Seminar Graduate course, 8 students, SEI overall score (0-5.0): 5.0
Spring, 2021	Energy and Environment (ES 2155/SENR 2155) Lecture Co-instructor with Jeffrey Jacquet (SENR) Undergraduate course, 108 students SEI overall score (0-5.0): 4.32
Fall, 2020	Sedimentation and Stratigraphy (ES 4502/6502) Instructor Undergraduate/graduate, 17 students (15 UG, 2 G) SEI overall score (0-5.0): 5.0
Spring, 2020	Reflection Seismology (ES 5780) Lecture and Lab Graduate and undergraduate course, 9 students, SEI overall score (0-5.0): 4.86
Spring, 2020	Energy and Environment (ES 2155/SENR 2155) Lecture Co-instructor with Jeffrey Jacquet (SENR) Undergraduate course, 60 students, SEI overall score (0-5.0): 4.18
Fall, 2019	Sedimentation and Stratigraphy (ES 4502/6502) Co-instructor, assistant to L. Krissek Graduate/Undergraduate, 14 students
Spring, 2019	Energy and Mineral Resources in Society (ES 2210), Undergraduate, general education, 37 students,

	SEI overall score (0-5.0): 4.67
Spring, 2019	Field Stratigraphy in the Guadalupe Mountains (ES 8801-10) Graduate and undergraduate course, 10 students, SEI overall score (0-5.0): 4.50
Fall, 2018	Internship in the Earth Sciences (ES 5191) Undergraduate, 3 students, SEI score: N/A
Fall, 2018	Reflection Seismology (ES 5780) Lecture and Lab Graduate and undergraduate course, 10 students, SEI overall score (0-5.0): 4.90
Summer, 2018	Internship in the Earth Sciences (ES 5191) Undergraduate, 1 student, SEI score: N/A
Spring, 2018	Energy and Mineral Resources in Society (ES 2210), Undergraduate, general education, 40 students, SEI overall score (0-5.0): 4.50
Fall, 2017	Reflection Seismology (ES 5780) Lecture and Lab Graduate and undergraduate course, 11 students, SEI overall score (0-5.0): 5.00
Fall, 2017	Coastal Geology (ES 8801-10) Graduate course, 10 students, SEI overall score (0-5.0): 5.00
Spring, 2017	Energy and Mineral Resources in Society (ES 2210) Undergraduate, general education, 20 students, SEI overall score (0-5.0): 5.00
Fall, 2016	Reflection Seismology (ES 5780) Lecture and Lab Graduate and undergraduate course, 20 students, SEI overall score (0-5.0): 5.00
Spring, 2016	Energy and Mineral Resources in Society (ES 2210) Undergraduate, general education, 36 students, SEI overall score (0-5.0): 4.10
Fall, 2015	Reflection Seismology (ES 5780) Lecture and Lab Graduate and undergraduate course, 34 students, SEI overall score (0-5.0): 4.30
Fall, 2015	Seminar in Subsurface Interpretation (ES 8860) co-taught with Ann Cook Graduate course, 7 students, SEI overall score (0-5.0): 4.50
Spring, 2015	Energy and Mineral Resources in Society (ES 2210)

	Undergraduate, general education, 34 students, SEI overall score (0-5.0): 4.50
Spring, 2014	Geodynamics (EES 490) Lecture and Lab Undergraduate and Graduate, 11 students
Spring, 2014	Seminar in Subsurface Interpretation (Imperial Barrel Award) Undergraduate and Graduate, 5 students
Fall, 2013	Seminar in Geological Sciences: Teaching Geology (EES 570-2) Lecture Graduate, 9 students
Spring, 2013	Petroleum Geology (ES 511) Lecture and Lab Undergraduate and Graduate, 13 students

POSTDOCTORAL SCHOLARS SUPERVISED

2025 – 2026	Dr. Nolan Jones. Ph.D. from Penn State University.
2025 – 2026	Dr. Bailey Fitzgerald. Ph.D. from The Ohio State University.
2017 – 2020	Dr. Alexey Portnov (co-supervisor). Ph.D. from the University of Tromsø, Norway. Currently Research scientist at The University of Texas at Austin.
2015 – 2016	Dr. Jess Hillman (co-supervisor). Ph.D. from University of Otago, New Zealand. Currently research scientist at GNS, Wellington, New Zealand.

STUDENTS SUPERVISED

Doctoral Student (Dissertation Supervisor) (4)

2020 – Present	Blake, Daniel. <i>Sediment Transport and Coastal Erosion, Lake Erie, Ohio</i> , United States.
2020 – 2025	Fitzgerald, Bailey. <i>Impacts of Earthquake Shaking on Seafloor Sediment Stability and Landslide Hazards</i> . The Ohio State University, Columbus, Ohio, United States.
2017 – 2021	Lenz, Brandi L. <i>Kinematics of Submarine Landslides, Offshore Oregon</i> . The Ohio State University, Columbus, Ohio, United States. Currently instructional assistant professor, Texas A&M University, Department of Geology and Geophysics, College Station, TX.
2015 – 2020	Browning, Trevor N. <i>Assessing Vulnerability to Watershed Erosion and Coastal Deposition in the Tropics</i> . The Ohio State University, Columbus, Ohio, United States. Currently assistant professor, Elmira College, Elmira, NY.

Masters Student (Thesis Advisor) (10)

- 2023 – 2025 Higgins, Faye. *Composition and Flow Modeling of Megabeds from the Campanian Ignimbrite in the Marsili Basin, Tyrrhenian Sea*. The Ohio State University, Columbus, Ohio, United States.
- 2019 – 2021 Fillingham, Jacob. *Undulating Sediments of the Cape Fear Submarine Landslide system, offshore U.S. Atlantic Margin: Sediment Waves versus Creep Deformation*. The Ohio State University, Columbus, Ohio, United States.
- 2019 – 2021 Martinez, Gabriel. *Seismic Geomorphology of the Chandeleur Submarine Landslide in the Northern Gulf of Mexico*. The Ohio State University, Columbus, Ohio, United States.
- 2015 – 2018 Russell, Paul. *Tsunami Stratigraphy in a Salt Pond on St. Croix, US Virgin Islands*. The Ohio State University, Columbus, Ohio, United States.
- 2016 – 2018 Trotter, Bennett. *Pore Pressure in the Deep Utica Shale and Point Pleasant Formation*. The Ohio State University, Columbus, Ohio, United States. Co-advised with Ann Cook.
- 2015 – 2017 Treiber, Katie. *Deepwater Channel Systems in the Orca and Choctaw Basins, Northern Gulf of Mexico*. The Ohio State University, Columbus, Ohio, United States.
- 2015 – 2016 Yang, Chen. *Petrophysical and Geophysical Interpretation of a Potential Gas Hydrate Reservoir at Alaminos Canyon 810, Northern Gulf of Mexico*. The Ohio State University, Columbus, Ohio, United States. Co-advised with Ann Cook.
- 2014 – 2016 DeVore, Joshua. *Mudstone Consolidation in the Presence of Seismicity*. The Ohio State University, Columbus, Ohio, United States.
- 2014 – 2015 Akinci, Levent. *An Analytical Modelling Approach to Test if a Rising Salt Diapir Triggered the Cape Fear Landslide*. The Ohio State University, Columbus, Ohio, United States.
- 2013 – 2015 Moore, Zachary. *Dynamics of a Large Submarine Landslide in an Active Margin from Particle Size Analysis, 3-D Seismic, and Logs: IODP Expedition 338, Nankai Trough, offshore Japan*. University of Kentucky, Lexington, Kentucky, United States.

Undergraduate Senior Thesis Advisor (25)

- 2023 – 2025 Bauer, Sara, *Particle Size Analysis Sediments from the Eel River Plateau Region, Offshore California*. The Ohio State University, Columbus, Ohio, United States.
- 2023 – 2025 Colton, Lane, *Particle Size Analysis of Japan Trench Sediments from International Ocean Discovery Program Expedition 386*. The Ohio State University, Columbus, Ohio, United States.
- 2023 – 2024 Bzdafka, Jacob, *Mineralogical analysis of a Sediment core from the Marsili Seamount, Tyrrhenian Sea*. The Ohio State University, Columbus, Ohio, United States.
- 2023 – 2023 Courtright, Daniel, *Interpretation and Analyses of Soil Boring Log Data in Central Ohio, United States*. The Ohio State University, Columbus, Ohio, United States.
- 2023 – 2024 Schmetzer, Nicholas. *Sediment cores in a salt pond, St. Croix, U.S. Virgin Islands*. The Ohio State University, Columbus, Ohio, United States.

- 2020 – 2022 Ab Rahaman, Faz, *Slope stability analysis of neighboring salt domes with different scarring histories*. The Ohio State University, Columbus, Ohio, United States.
- 2020 – 2022 Nasir, Fattin, *Fossil assemblage analysis in salt pond cores for paleotsunami interpretation*. The Ohio State University, Columbus, Ohio, United States.
- 2020 – 2022 Washburn, Jeremy, *Analysis of the Submarine Slope Failures Accompanying the 1929 Grand Banks Earthquake and Tsunami Disaster*. The Ohio State University, Columbus, Ohio, United States.
- 2020 – 2022 Price, Mallory, *Analysis of fanquakes seismometer data from Ohio State football games in 2016*. The Ohio State University, Columbus, Ohio, United States.
- 2019 – 2021 Marchlewicz, Justin, *Seismic Stratigraphy in Green Canyon, Gulf of Mexico*. The Ohio State University, Columbus, Ohio, United States.
- 2018 – 2019 Lager-Lowe, Kain. *Three-Dimensional Seismic Interpretation of Near-Seafloor Salt Bodies and Fluid Expulsion Features Adjacent to the Mississippi Canyon, Gulf of Mexico*. The Ohio State University, Columbus, Ohio, United States.
- 2018 – 2018 Fuad, Mohamad I. *A Seismic Well-Tie Analysis at Integrated Ocean Drilling Program Expedition 308 Site U1320, Brazos-Trinity Basin IV, Northwestern Gulf of Mexico*. The Ohio State University, Columbus, Ohio, United States.
- 2017 – 2018 O'Malley, Michael D. *A Multi-channel Seismic Interpretation of the Canterbury Basin Offshore New Zealand and Potential Hydrocarbon Sources*. The Ohio State University, Columbus, Ohio, United States.
- 2017 – 2018 Mason, Keith L. *An Analysis of Shallow Sediment Overlying Gas Hydrate, Green Canyon Block 955 (GC-955), Gulf of Mexico, USA*. The Ohio State University, Columbus, Ohio, United States.
- 2016 – 2017 Mason, Robert Alan. *Seafloor Brine Lake Impacted by Submarine Landsliding, Orca Basin, Gulf of Mexico*. The Ohio State University, Columbus, Ohio, United States. Honors Program.
- 2015 – 2017 Lenz, Brandi L. *Shear Strength of Sediment Offshore Southern Alaska*. The Ohio State University, Columbus, Ohio, United States.
- 2016 – 2017 Rodgers, Nick. *A Numerical Simulation of a Tsunami Generated by a Submarine Landslide, Offshore Puerto Rico*. The Ohio State University, Columbus, Ohio, United States.
- 2015 – 2016 Gutierrez, Mario. *Upper and Middle Miocene Ash Beds in the Central Gulf of Mexico*. The Ohio State University, Columbus, Ohio, United States.
- 2015 – 2016 Rohan, Tyler. *Grain Size and Seismic Analysis of IODP Expedition 333, Site C0018 and the Pink Volcanic Ash Horizon, Nankai Trough, Offshore Japan*. The Ohio State University, Columbus, Ohio, United States.
- Won 1st place in the 2016 Ohio State University Denman Undergraduate Research Forum in the Natural and Mathematical Sciences Division

- 2015 – 2016 Haugh, Ryan. *Styles of Soft-Sediment Deformation of the Lower Headwall of the Cape Fear Landslide, Offshore North Carolina*. The Ohio State University, Columbus, Ohio, United States.
- 2015 – 2016 Copeland, Thomas. *Grain Size Analysis of the Watershed and Nearshore Coastal Sediments in Coral Bay, St. John, U.S. Virgin Islands*. The Ohio State University, Columbus, Ohio, United States.
- 2014 – 2015 Mills, Jacqueline. *Mapping Key Subsurface Boundaries to Determine Maximum Thickness of Methane Hydrate within the Blake Ridge Region of Offshore North Carolina, USA, Constrained with Three-Dimensional Seismic Data and Well Logs*. The Ohio State University, Columbus, Ohio, United States.
- 2014 – 2015 Munson, Sarah. *Petroleum Potential in the Carolina Trough*. The Ohio State University, Columbus, Ohio, United States.
- 2014 – 2015 Nsona, John. *Oil and Natural Gas Reserves of the Utica Shale in Ohio*. The Ohio State University, Columbus, Ohio, United States.
- 2013 – 2014 Hodelka, Bailee. *The Role of Foraminifera-enriched Condensed Section in Arresting the Movement of a Large Retrogressive Submarine Landslide in the Gulf of Mexico*. The University of Kentucky, Lexington, Kentucky, United States.

Doctoral Student (Dissertation Committee Member) (12)

- 2021 – Present Tokuhisa Waid, Christopher B. *Application of integrated conodont and carbon isotope biochemostratigraphy and sequence stratigraphy with subsurface geophysical log correlation: bringing formal nomenclature and member-scale precision to subsurface correlation of the Medina and Clinton Groups (Late Ordovician—Wenlock; Silurian) of the distal Appalachian foreland basin*. The Ohio State University, Columbus, Ohio, United States.
- 2020 – 2024 Peterman, Kenneth. *Olivine-Melt Equilibrium and the Redox State of Magmas*. The Ohio State University, Columbus, Ohio, United States.
- 2022 – 2024 Naim, Fawz. *Application of Geophysical and Machine Learning Methods to Investigate Marine Gas Hydrate Systems*. The Ohio State University, Columbus, Ohio, United States.
- 2020 – 2023 Braunagel, Michael. *A Hydro-Thermo-Poroelastic Investigation of the Initiation and Emplacement of Large Volume Volcanic Landslides*. The Ohio State University, Columbus, Ohio, United States.
- 2020 – 2023 Adiatma, Datu. *Chemostratigraphy of the Ordovician System in the Appalachian Basin*. The Ohio State University, Columbus, Ohio, United States.
- 2018 – 2021 Wei, Li. *Diffusive Migration in Gas Hydrate Reservoirs*. The Ohio State University, Columbus, Ohio, United States.
- 2017 – 2020 Price, James T. *Coral Resilience to Global Change: Roles of the Microbiome and Animal Physiology*. The Ohio State University, Columbus, Ohio, United States.

- 2017 – 2020 Knights, Deon. *Quantifying Nitrate Attenuation in a Coastal Freshwater Wetland*. The Ohio State University, Columbus, Ohio, United States.
- 2017 – 2020 Xiong, Fengyang. *Desorption and Adsorption of Subsurface Shale Gas*. The Ohio State University, Columbus, Ohio, United States.
- 2017 – 2019 Oti, Emma A. *Using Nondestructive X-Ray Computed Tomography (XCT) to Solve Geologic Problems*. The Ohio State University, Columbus, Ohio, United States.
- 2015 – 2018 Majumdar, Urmi. *Natural Gas Hydrates in the Northern Gulf of Mexico*. The Ohio State University, Columbus, Ohio, United States.
- 2015 – 2017 Scott, Jameson. *Towards a Petrologically Constrained Thermal Model of Mid-Ocean Ridges*. The Ohio State University, Columbus, Ohio, United States.

External Doctoral Student Dissertation Committee Member (3)

- 2022 – 2023 Couvin, Benjamin. *Classification and characteristics of slow-moving subaqueous landslides*, School of Earth Sciences, University College Dublin.
- 2022 – 2022 Gadol, Omri. *Detailed investigation of mass transport complexes in the continental slope offshore Israel: High-resolution seismic imaging the Goliath mass transport complex and the Dor Disturbance*, University of Haifa, Israel.
- 2021 – 2022 Mencaroni, Davide. *Pore pressure build-up in mixed contourite-turbidite systems: the SW Iberian margin*. Department of Earth Sciences, the University of Barcelona. Barcelona, Spain.

Masters Student (Thesis Committee Member) (16)

- 2024 – present Idzakovich, Matthew. *Geologic Mapping and Steady-State Friction Testing of Material from the N. Sanford Valley, Panguitch, UT*. The Ohio State University, Columbus, Ohio, United States.
- 2024 – present Saffron Martin. *The Formation of Hydrate-Filled Fractures in Continental Margins Examined Through X-Ray Computed Tomography*. The Ohio State University, Columbus, Ohio, United States.
- 2023 – present Bouie, Emma. *Shoreline Dynamics and Recession Rates along the Ohio Lake Erie Coast*. The Ohio State University, Columbus, Ohio, United States.
- 2023 – 2024 Aidan S. Fullriede. *Geological Characterization and Off-Fault Damage Analysis of the Southern San Andreas Fault at Ferrum, CA*. The Ohio State University, Columbus, Ohio, United States.
- 2021 – 2024 Mayback, Danika. *Rock mechanics experiments in subaerial landslides*. The Ohio State University, Columbus, Ohio, United States.
- 2022 – 2023 Jones, Benjamin. *Natural Gas Hydrate Exploration in the Gulf of Mexico*. The Ohio State University, Columbus, Ohio, United States.
- 2022 – 2022 Gaston, Hannah. *Off-Fault Deformation Along the Superstition Hills and Elsinore Faults: A Moment-Dependent Bifurcation in Off-Fault Energy Dissipation Processes?* The Ohio State University, Columbus, Ohio, United States.

- 2020 – 2021 Weigandt, Caje, Kindred. *Role of Confinement in Coseismic Pulverization of Sediments: Testing the Rock Record of Rupture Directivity on the San Jacinto Fault*. The Ohio State University, Columbus, Ohio, United States.
- 2020 – 2021 Skopec, Stuart. *Classification and Description of Gas Hydrate Systems in the Northwestern Gulf of Mexico*. The Ohio State University, Columbus, Ohio, United States.
- 2020 – 2021 Smith, Zachary. *Loading and Material Constraints on the Strain Rate Dependence of Brittle Damage Fabrics*. The Ohio State University, Columbus, Ohio, United States.
- 2019 – 2020 Heber, Ryan. *Occurrence of Gas Hydrate in the Barents and Norwegian Seas Inferred from Industry Well Logs*. The Ohio State University, Columbus, Ohio, United States.
- 2018 – 2020 Lary, Brent. *Using Crustal Noble Gases to Evaluate Fluid Flow and Identify “Sweet Spots” in Northern Appalachian Black Shales*. The Ohio State University, Columbus, Ohio, United States.
- 2017 – 2018 Robinson, Caroline. *Sedimentology of South China Sea Deepwater Sites*. The Ohio State University, Columbus, Ohio, United States.
- 2016 – 2017 Blocher, Will. *Fault Geometry and Kinematics within the Terror Rift, Antarctica*. The Ohio State University, Columbus, Ohio, United States.
- 2016 – 2017 Hall, Tricia. *Tectonic and climatic interactions and implications for Paleogene-Neogene erosion and landscape modification, McMurdo Sound, Antarctica*. The Ohio State University, Columbus, Ohio, United States.
- 2015 – 2015 Chen, Jie. *The Influence of Lithospheric Flexure Induced by Volcano Loading on Neogene Basin Evolution in McMurdo Sound, West Antarctica*. The Ohio State University, Columbus, Ohio, United States.

Undergraduate Student (Thesis Committee Member) (11)

- 2024 – 2025 Putman, Kaleb. *Pore-Scale Mineral Accessibility and Diagenetic Controls on CO₂ Reactivity in the Mount Simon Sandstone, Butler County, OH*. The Ohio State University, Columbus, Ohio, United States.
- 2023 – 2024 Martin, Saffron. *The Formation of Hydrate-filled Fractures in the Gulf of Mexico and Offshore Japan*. The Ohio State University, Columbus, Ohio, United States.
- 2023 – 2024 Nidy, Claire. *Interpretation of Whole-Rock Geochemical Data of Volcán De Pacaya, Guatemala 2006-2021 Lava Flows*. The Ohio State University, Columbus, Ohio, United States.
- 2023 – 2024 Wikesell, Cameron. *A Physical Analysis of Icelandic Lavas: What Clinopyroxenes Reveal About the Southwest Reykjanes Peninsula*. The Ohio State University, Columbus, Ohio, United States.
- 2022 – 2023 Tackett, Cassandra. *An Analysis of the Geochemical Composition of Volcanic Glasses by use of Variation Diagrams and the Relationship of their Proximity to the Mantle Plume Beneath Iceland*. The Ohio State University, Columbus, Ohio, United States.

- 2019 – 2021 Meiner, Kathleen. *Mirror Lake Monitoring: Water Level Observations and Groundwater-Surface Water Interactions*. The Ohio State University, Columbus, Ohio, United States.
- 2019 – 2020 Brown, Alexander. *Characterization of Surficial Sediments from an Island of Wax Lake Delta, Louisiana (USA)*. The Ohio State University, Columbus, Ohio, United States.
- 2020 – 2020 Schneider, Samuel. *Stability Analysis of the Ancient Sevier Gravity Slide, Southwest Marysville Volcanic Field, Utah*. The Ohio State University, Columbus, Ohio, United States.
- 2018 – 2019 Smith, Alexandra, Z. *Natural Variability in the Contribution of Heterotrophic Carbon to Tissues of Hawaiian Corals*. The Ohio State University, Columbus, Ohio, United States.
- 2018 – 2019 Reineck, Nicholas. *Experimental Study of Sediment Type and Organic Content on Fossil Trackway Preservation*. The Ohio State University, Columbus, Ohio, United States.
- 2018 – 2019 Skopec, Stuart. *Modelling of Fractional Crystallization of Basalts within Kilauea, Hawaii*. The Ohio State University, Columbus, Ohio, United States.

PARTICIPATION IN MEETINGS, SEMINARS, WORKSHOPS

- 2025 National Science Foundation Seafloor Geodesy Workshop, Minneapolis, MN, May 2025 (participant)
- 2025 Autonomous Investigation during Drilling (AID) Workshop, Woods Hole, MA, January 2025 (participant)
- 2024 American Geophysical Union Annual Meeting, Washington, DC, December 2024 (presenter)
- 2024 Seismological Society of America Annual Meeting, Anchorage, Alaska, April 2024 (presenter)
- 2023 American Geophysical Union Annual Meeting, Washington, DC, December 2023 (presenter)
- 2023 European Geophysical Union Annual Meeting, Vienna, Austria May 2023 (co-convenor of session “Submarine Geomorphology and offshore Geohazards”)
- 2023 European Geophysical Union Annual Meeting, Vienna, Austria May 2023 (presenter)
- 2023 International Ocean Discovery Program, Science Evaluation Panel Meeting, La Jolla, CA, January 2023 (panelist)
- 2022 AGU Annual Meeting, San Francisco, CA, December 2022 (presenter)
- 2022 Deep Sea Benthic Oceanography and Seafloor Geodesy: Geophysical Characterization and Change Detection, office of Naval Research, Arlington, VA, September 2022 (Invited participant)
- 2022 International Conference on Seafloor Landforms, Processes, and Evolution, Malta, July 2022 (Invited speaker)
- 2022 International Ocean Discovery Program, Science Evaluation Panel Meeting, Southampton, UK, June 2022 (panelist)
- 2022 International Ocean Discovery Program, Science Evaluation Panel Meeting, Virtual, January 2022 (panelist)
- 2021 International Ocean Discovery Program, Science Evaluation Panel Meeting, Virtual, July 2021 (panelist)
- 2021 9th International Conference on Submarine Mass Movements and their Consequences, May 2021 (presenter)
- 2021 International Ocean Discovery Program, Science Evaluation Panel Meeting, Virtual, January 2021 (panelist)
- 2020 AGU Annual Meeting, San Francisco, CA, December 2020 (virtual presenter)

- 2019 AGU Annual Meeting, San Francisco, CA, December 2019 (presenter)
- 2018 8th International Symposium on Submarine Mass Movements and their Consequences, Victoria, British Columbia, Canada, May (presenter)
- 2018 Gordon Research Conference on Natural Gas Hydrate Systems, February 2018 (Invited presenter)
- 2018 International Ocean Discovery Program, Science Evaluation Panel Meeting, La Jolla, CA, January 2018 (panelist)
- 2017 AGU Annual Meeting, New Orleans, LA, December 2017 (presenter)
- 2017 9th International Conference on Gas Hydrates, Denver, CO, June 2017 (presenter)
- 2017 American Association of Petroleum Geologists Annual Convention, Houston, TX, April (presenter)
- 2016 AGU Annual Meeting, San Francisco, CA, December 2016 (presenter)
- 2016 AGU Annual Meeting, San Francisco, CA, December 2016 (co-convenor of session “Marine Geohazards
- 2016 Geological Society of America Annual Meeting, Denver, CO, October (presenter)
- 2016 Gordon Research Conference on Natural gas Hydrates Systems, Galveston, TX, February 2016 (presenter)
- 2015 AGU Annual Meeting, San Francisco, CA, December 2015 (presenter)
- 2015 7th International Symposium on Submarine Mass Movements and Their Consequences, Wellington, NZ, (presenter)
- 2015 Seismic processing workshop, Lamont-Doherty Earth Observatory, Columbia University, June 2015 (participant)
- 2015 International Ocean Discovery Program, Science Evaluation Panel Meeting, La Jolla, CA, January 2015 (panelist)
- 2014 AGU Annual Meeting, San Francisco, CA, December 2014 (presenter)
- 2014 International Ocean Discovery Program, Science Evaluation Panel Meeting, Brunswick, NJ, June 2014 (panelist)
- 2014 International Ocean Discovery Program, Science Evaluation Panel Meeting, Santa Cruz, CA, January 2014 (panelist, virtual)
- 2013 AGU Annual Meeting, San Francisco, CA, December 2013 (presenter)
- 2013 6th International Symposium on Submarine Mass Movements and their Consequences, Kiel, Germany, September 2003 (presenter)
- 2013 Integrated Ocean Drilling Program, Site Characterization Panel, Santa Cruz, CA June 2013 (panelist)
- 2013 Marine Geoscience Leadership Symposium, Washington DC, March 2013 (participant)
- 2012 AGU Annual Meeting, San Francisco, CA, December 2012 (presenter)
- 2011 AGU Annual Meeting, San Francisco, CA, December 2011 (presenter)
- 2010 18th International Sedimentological Congress, Mendoza, Argentina, September 2010 (Invited speaker)
- 2009 AGU Annual Meeting, San Francisco, CA, December 2009 (presenter)
- 2009 4th International Symposium on Submarine Mass Movements and their Consequences, Austin, TX, November 2009 (workshop host: Core-log-seismic Integration of Submarine Landslides, Ursa Basin, Gulf of Mexico)
- 2009 4th International Symposium on Submarine Mass Movements and their Consequences, Austin, TX, November 2009 (workshop host: Laboratory Experiments of Subaqueous Slope Failures)
- 2009 4th International Symposium on Submarine Mass Movements and their Consequences, Austin, TX, November 2009 (presenter)
- 2009 IODP Invest, Bremen, Germany, September 2009 (participant)
- 2008 AGU Annual Meeting, San Francisco, CA, December 2008 (presenter)
- 2008 PSU GeoFluids Consortium Meeting, Austin, TX, November 2008 (presenter)
- 2008 Geological Society of America, Annual Meeting, Houston, TX, October 2008 (presenter)
- 2008 33rd International Geological Congress, Oslo, Norway, August 2008 (presenter)

- 2007 PSU GeoFluids Consortium Meeting, Austin, TX, October 2007 (presenter)
- 2007 IODP GeoHazards Meeting, August 2007, Portland, OR (participant)
- 2007 Offshore Technology Conference, Houston, TX, May 2007 (presenter)
- 2006 AGU Annual Meeting, San Francisco, CA, December 2006 (presenter)
- 2006 Penn State GeoFluids Consortium Meeting, Santa Cruz, CA, October 2006 (presenter)
- 2006 IODP Expedition 308 Post Cruise Science Meeting, Granada, Spain, October 2006 (participant)
- 2006 American Association of Petroleum Geologists, Annual Convention, Houston, TX, April 2006 (presenter)
- 2005 AGU Annual Meeting, San Francisco, CA, December 2005 (presenter)
- 2005 Penn State GeoFluids Consortium Meeting, Galveston, TX, September 2005 (presenter)
- 2005 IODP Expedition 308 Editorial Meeting, College Station, TX, November 2005 (participant)
- 2004 AGU Annual Meeting, San Francisco, CA, December 2004 (presenter)
- 2004 Penn State GeoFluids Consortium Meeting, Santa Barbara, CA, April 2004 (presenter)
- 2003 Penn State GeoFluids Consortium Meeting, Santa Cruz, CA, February 2003 (presenter)

PROFESSIONAL, ADMINISTRATIVE, AND PUBLIC SERVICE

Service to the University (School of Earth Sciences, College of Arts and Sciences, and University)

- 2025 – 2026 Alumni Committee, Chair (SES)
- 2025 – 2026 Undergraduate Committee, Member (SES)
- 2025 – 2026 Faculty peer mentor (Associate Professor Demian Gomez)
- 2024 – 2025 Associate Director of Administration (SES)
- 2024 – 2025 Curriculum Committee, Chair (SES)
- 2023 – 2025 Faculty Annual Evaluation Committee, Member (SES)
- 2023 – 2024 Friends of Orton Committee, Member, (SES)
- 2023 – 2024 Faculty Advisor, Student Geology Club
- 2023 – 2024 Head, Division of Solid Earth Dynamics, (SES)
- 2017 – 2021 Alumni Committee, Member, (SES)
- 2019 – 2021 Undergraduate Committee, Member, (Recruitment lead) (SES)
- 2019 – 2021 Battelle Endowment (BETHA) Grant Review Committee, Reviewer (UNIV)
- 2020 – 2021 Graduate Studies Committee, Member (SES)
- 2016 – 2018 Shell Undergraduate Research Experience (SURE), Co-advisor (SES)
- 2014 – 2016 Friends of Orton Committee, Member, (SES)
- 2015, 2017 Denman Undergraduate Research Forum, Judge (SES/ASC/UNIV)
- 2018 – 2019 College of Arts and Sciences Faculty Senate, member
- 2017 – 2020 University Senate Council on the Physical Environment, Member, Invited by President Drake

- 2015 - 2017 Shell Undergraduate Research Experience program, Mentor, (SES)
- 2019-2021 Graduate Faculty Representative on a dissertation in another Unit
Final Exam, 04/16/2019, MECHENG-PH, Travis Hery, (Prof. Vishnu Baba Sundaresan; advisor), “Smart Membrane Separators for Enhanced Performance of Lithium-Ion Batteries.”
First Final Exam, 04/30/2021, HDFS-PH, Michael Shepard (Prof. Anastasia Snyder), “Social Change in Shale O&G Communities”
- 2017 – 2020 OSU Center for Energy Research, Training, and Innovation (CERTAIN) Faculty Advisory Committee, Member
- 2014 – 2016 Computing Committee, Member, (SES)
- 2014- 2016 Faculty advisor, Society of Exploration Geophysicists Student Chapter, The Ohio State University

Service to the Profession

- 2021 – 2024 Science Evaluation Panel, International Ocean Discovery Program
- 2022 – 2025 Career mentor, Eckerd College Career mentoring program
- 2023 Co-convener, Submarine Geomorphology session, European Geophysical union, General Assembly, April 2023.
- 2019- 2022 Editorial Review Board, Scientific Reports
- 2019- 2023 Mentor, American Geophysical Union, Mentoring365 Program
- 2011-Present Peer reviewer for the following journals: Geology, Nature Communications, Science Advances, Earth and Planetary Science Letters, Geophysical Research Letters, Marine Geology, Marine and Petroleum Geology, Journal of Geophysical Research-Solid Earth, Journal of Geophysical Research-Earth Surface, AAPG Bulletin, Basin Research, Scientific Reports
- 2017-Present Peer reviewer for NSF Marine Geology and Geophysics program (ad hoc and in-person)
- 2017 NSF PREEVENTS Program (ad hoc and in-person)
- 2016-17, -19 Primary Convener, American Geophysical Union Fall Meeting
- 2015-17, -20 Co-convener, American Geophysical Union Fall Meeting
- 2014 - 2019 Judge, Outstanding Student Presentation Award, American Geophysical Union, Fall Meeting
- 2017 Co-convener, American Association of Petroleum Geologists National Meeting, Houston, TX.
- 2017 Co-Convener, IODP Workshop “Western North Atlantic Slope Stability, Southern Methodist University, April 2017.

2012-2015	Site Characterization Panel, International Ocean Discovery Program
2015	Steering Committee, Marine Geoscience Leadership Symposium, Consortium for Ocean Leadership
2015	Seismic processing workshop held at Lamont-Doherty Earth Observatory, Columbia University, June 22-26, 2015.
2014	Steering Committee International Symposium on Mass Movements and Their Consequences
2014	Imperial Barrel Award Faculty Advisor, University of Kentucky
2013	Marine Geoscience Leadership Symposium, Washington DC, March 10-15.
2013-2014	AAPG Student Chapter Faculty Advisor, University of Kentucky
2012	Building U.S. Strategies for 2013-2023 Scientific Ocean Drilling, Denver, CO, April 30 – May 2, 2012
2010	MARGINS Successor Program Planning Meeting, San Antonio, TX, Feb. 15-18
2010	Science Fair Judge, Austin Energy Regional Science Festival, Feb. 25
2009	Integrated Ocean Drilling Program INVEST Meeting, Bremen, Germany, Sep. 21-25
2009	Organized a Core-Log-Seismic Workshop for 25 participants (academia/government/private) as part of 4 th International Submarine Mass Movements Conference, Austin, TX, November 2009.
2009	Co-led Morphodynamics Workshop for 25 participants (academia/government/private) as part of 4 th International Submarine Mass Movements Conference, Austin, TX, November 2009.
2008	Co-Chair, UT Institute for Geophysics Lunchtime Seminar Series
2007	Integrated Ocean Drilling Program Geohazards Workshop, Portland, OR, Aug 26-30
2007-2008	Treasurer, AAPG Student Chapter at UT Austin
2007	Chair, 39th Annual Graduate Student Colloquium (Penn State)
2001	Student Director of Eckerd College Sedimentology Lab