

DONNA J. SHILLINGTON

Northern Arizona University
School of Earth and Sustainability
Flagstaff, AZ, USA

Tel: +1 646 678 0081

E-mail: Donna.Shillington@nau.edu

Birth: 19 August 1976, Atlanta, GA, USA

EDUCATION

Ph.D., Geophysics, University of Wyoming, 2004

Dissertation: The Formation and Rupturing of Continents: Seismic Studies of the Aleutian Island Arc and the Newfoundland Nonvolcanic Rifted Margin

B.S., Geology, University of Georgia, 1998

Magna Cum Laude with High Honors

A.B.J., Journalism, University of Georgia, 1998

Magna Cum Laude with High Honors

EMPLOYMENT HISTORY

Northern Arizona University, Flagstaff, AZ

Associate Professor

Jan 2020 – present

Lamont-Doherty Earth Observatory of Columbia University, Palisades, NY

Senior Adjunct Research Scientist

Jan 2020 – present

Lamont Research Professor

July 2019 – Jan 2020

Associate member of Earth Institute Faculty

July 2014 – Jan 2020

Lamont Associate Research Professor (senior staff)

July 2014 – July 2019

Lamont Associate Research Professor (junior staff)

July 2013 – July 2014

Junior member of the Earth Institute Faculty

May 2012 – July 2015

Lamont Assistant Research Professor

July 2010 – July 2013

Doherty Associate Research Scientist

Nov. 2007 – July 2010

National Oceanography Centre, Southampton, UK

Lecturer in Geophysics

Jan. 2006 – Nov. 2007

Post-doctoral Researcher

July 2004 – Jan. 2006

University of Wyoming, Laramie, WY

Graduate Research Assistant – University of Wyoming

Aug. 1999 – July 2004

Chevron USA, Inc., New Orleans, LA

Earth Science Intern – Geophysics

June 2001 – Aug. 2001

Seismic Imaging, Inc., Atlanta, GA

Staff Geologist

Aug. 1998 – Aug. 1999

PUBLICATIONS

Refereed publications (* indicates that author is student that I have advised or co-advised):

- [56] *Marzen, R.E.; **Shillington, D.J.**, Lizarralde, D.; Knapp, J.H.; Heffner, D.; Davis, J.; Harder, S. (2020) Limited and Localized Magmatism in the Central Atlantic Magmatic Province. *Nature Communications*. v. 11. doi: 10.1038/s41467-17193-6.
- [55] Hopper, E.; Gaherty, J.B.; **Shillington, D.J.**, Accardo, N.J.; Nyblade, A.A.; Holtzman, B.K.; Havlin, C.; Scholz, C.A.; Chindandali, P.R.N.; Ferdinand, R.W.; Mgboni, G.; Mulibo, G. (2020) Preferential localised thinning of lithospheric mantle in the melt-poor Malawi Rift. *Nature Geoscience*. doi:10.1038/s41561-020-0609-y
- [54] *Accardo, N.J.; Gaherty, J.B.; Shillington, D.J.; Hopper, E.; Nyblade, A.A.; Ebinger, C.J.; Scholz, C.A.; Chindandali, P.R.N.; Wambura-Ferdinand, R.; Mbogoni, G.; Russell, J.B.; Holtzman, B.K.; Havlin, C.; Class, C. (2020). Thermo-chemical modification of the Upper Mantle beneath the Northern Malawi Rift Constrained from Shear Velocity Imaging. *Geochem. Geophys. Geosys.* DOI: 10.1029/2019GC008843

- [53] Scholz, C.A.; **Shillington, D.J.**, Wright, L.J.M., Accardo, N.J.; Gaherty, J.B.; Chindandali, P (2020) Intrarift Fault Fabric, Segmentation, and Basin Evolution of the Lake Malawi (Nyasa) Rift, East Africa. *Geosphere* doi:10.1130/GES02228.1
- [52] **Shillington, D.J.**, Scholz, C.A.; Chindandali, P.R.N.; Gaherty, J.B.; Accardo, N.J.; Onyango, E.; Ebinger, C.J.; Nyblade, A.A. (2020) Controls on rift faulting in the North Basin of the Malawi (Nyasa) Rift, East Africa. *Tectonics*, 36, doi:10.1029/2019TC005633
- [51] Lynner, C.; Van Avendonk, H.J.A.; Becel, A.; Christeson, G.L.; Dugan, B.; Gaherty, J.B.; Harder, S.; Hornbach, M.J.; Lizarralde, D.; Long, M.D.; Magnani, M.B.; **Shillington, D.J.**; Aderhold, K.; Eilon, Z.C.; Wagner, L.S. (2020) The eastern North American Margin community seismic experiment: An amphibious active- and passive-source dataset, *Seism. Res. Lett.*, 91, 533-540, doi: 10.1785/0220190142
- [50] Ebinger, C.J.; Oliva, S.J.; Pham, T.-Q.; Peterson, K.; Chindandali, P.; Illsley-Kemp, F.; Drooff, C.; **Shillington, D.J.**; Accardo, N.J.; Gallacher, R.J.; Gaherty, J.; Nyblade, A.A.; Mulibo, G. (2019) Kinematics of Active Deformation in the Malawi Rift and Rungwe Volcanic Province, Africa. *Geochem. Geophys. Geosys.*, 20, doi:10.1029/2019GC008354
- [49] *Marzen, R.E., **Shillington, D.J.**, Lizarralde, D., Harder, S.H. Constraints on Appalachian Orogenesis and Continental Rifting in the Southeastern US from Wide-Angle Seismic Data. *J. Geophys. Res.*, 124, doi:10.1029/2019JB017611
- [48] Lymer, G., Creswell, D.J.F.; Reston, T.J.; Bull, J.M.; Sawyer, D.S.; Morgan, J.K.; Stevenson, C.; Causer, A.; Minshull, T.A.; **Shillington, D.J.** (2019) 3D development of detachment faulting during continental breakup, *Earth. Planet. Sci. Lett.* doi:10.1016/j.epsl.2019.03.018.
- [47] Abers, G.A., Adams, A.N.; Haeussler, P.N.; Roland, E.; Shore, P.J., Wiens, D., Schwartz, S.Y.; Sheehan, A.F.; **Shillington, D.J.**; Webb, S.; Worthington, L.L. (2019) Examining Alaska's earthquakes on land and sea, *Eos*, 100, doi:10.1029/2019EO117621.
- [46] Gaherty, J.B., Zheng, W., **Shillington, D.J.**, Pritchard, M. E., Henderson, S. T. Chindandali, P. R. N., Mdala, H., Shuler, A., Lindsey, N., Oliva, S.J., Nooner, S., Scholz, C. A., Schaff, D. (in press) Faulting processes during early-stage rifting: seismic and geodetic analysis of the 2009-2010 Northern Malawi earthquake sequence, *Geophys. J. International*. 10.1093/gji/ggz119
- [45] McNeill, L.C.; **Shillington, D.J.**, Carter, G., Everest, J., Gawthorpe, R., Miller, C., Phillips, M., Collier, R., Cvetkoska, A., De Gelder, G., Diz Ferreiro, P., Doan, M.-L., Ford, M., Geraga, M., Gillespie, J., Hemelsdael, R., Herrero-Bervera, E., Ismaiel, M., Janikian, L., Kouli, K., Le Ber, E., Li, S., Maffione, M., Mahoney, C., Machlus, M.L., Michas, G., Nixon, C., Oflaz, S.A., Omale, A.P., Panagiotopoulos, K., Pechivanidou, S., Sauer, S., Seguin, J., Sergiou, S., Zhakaraova, N., Green, S., (2019) High-resolution record reveals climate-driven environmental and sedimentary changes in an active rift. *Scientific Reports*. v. 9, 3166, doi:10.1038/s41598-019-40022-w
- [44] *Accardo, N.J., **Shillington, D.J.**, Gaherty, J.B., Scholz, C.A., Nyblade, A. A., Chindandali, P. R. N., Kamihanda, G., McCartney, T., Wood, D., Ferdinand, R.W. (2018) The Growth and Interaction of Large Border Faults in the Malawi Rift revealed by 3D Seismic Refraction Imaging, *J. Geophys. Res.* V. 123, 10003-10025 doi: 10.1029/2018JB016504
- [43] Grijalva, A., Nyblade, A.A., Homman, K., Accardo, N.J., Gaherty, J.B., Ebinger, C.J., **Shillington, D.J.**, Chindandali, P.R.N., Mbogoni, G., Ferdinand, R.W., Mulibo, G., O'Donnell, J.P., Kachingwe, M., and Tepp, G., (2018). Seismic evidence for plume- and craton-influenced upper mantle structure beneath the northern Malawi rift and the Rungwe volcanic province, East Africa, *Geochem. Geophys. Geosys.*, v. 19, 3980-3994.
- [42] Borrego, D.; Nyblade, A.A., Accardo, N.J., Gaherty, J.B.; Ebinger, C.J.; **Shillington, D.J.**, Chindandali, P.R.N.; Mbogoni, G.; Ferdinand, R.W.; Mulibo, G.; O'Donnell, J.P.; Kachingwe, M.; Tepp, G. (in press) Crustal Structure Surrounding the Northern Malawi Rift and Beneath the Rungwe Volcanic Province, East Africa, *Geophys. J. Intl.* v. 215, 1410-1426.
- [41] Tepp, G., Ebinger, C.J., Zal, H., Accardo, N.J., Gallacher, R., **Shillington, D. J.**, Gaherty, J.B., Keir, D., Nyblade, A.A., Mbogoni, G., Chindandali, P. R. N., Ferdinand, R.W., Mulibo, G. D., Kamihanda, G., (2018). Seismic anisotropy of the upper mantle below magmatic and weakly magmatic sectors of the Western rift, East Africa, *J. Geophys. Res.* v. 123, 5644-5660.
- [40] Schuba, C.N., Gray, G.G., Morgan, J.K., Sawyer, D.S., **Shillington, D.J.**, Reston, T.J., Bull, J.M., Jordan, B.E. (2018) A low-angle detachment fault revealed: Three-dimensional images of the S-reflector fault

zone along the Galicia passive margin. *Earth Planet Sci. Lett.*, v. 492, 232-238, doi: 10.1016/j.epsl.2018.04.012

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- [38] *Li, J., **Shillington, D.J.**, Saffer, D.M.; Bécel, A.; Nedimovic, M.R.; Webb, S.C.; Kuehn, H.; Keranen, K.M.; Abers, G.A. (2018) Connections between subducted sediment, pore-fluid pressure, and earthquake behavior along the Alaska megathrust. *Geology*. v. 46, 299-302, doi: 10.1130/G39557.1
- [37] **Shillington, D.J.**, Minshull, T.A.; Edwards, R.A.; White, N. (2017) Crustal structure of the Mid Black Sea High from wide-angle seismic data, *Petroleum Geology of the Black Sea*, Geological Society Special Publication, ed: Simmons, M. D., Tari, G. C. & Okay, A. I. v. 464, doi: 10.1144/SP464.6
- [36] Bécel, A.; **Shillington, D.J.**, Delescluse, M.; Nedimovic, M.R.; Abers, G.A.; Saffer, D.M.; Webb, S.C.; Keranen, K.M.; Rochi, P.-H.; Li, J., Kuehn, H. (2017) Tsunamigenic structures in a creeping section of the Alaska subduction zone, *Nature Geoscience*. doi: 10.1038/NGEO2990
- [35] *Accardo, N.J.; Gaherty, J.B.; **Shillington, D.J.**, Ebinger, C.J.; Nyblade, A. A.; Mbogoni, G. J.; Chindandali, P.R.N.; Ferdinand, R. W. ; Mulibo, G. D.; Kamihanda, G.; Keir, D.; Scholz, C.A.; Selway, K.; O'Donnell, J.P.; Tepp, G., Gallacher, R.; Mtelela, K.; Salima, J.; Mruma, A. (2017). Surface-wave imaging of the weakly-extended Malawi Rift from ambient-noise and teleseismic Rayleigh waves from onshore and lake-bottom seismometers, *Geophys. J. Intl.*, 209, 1892-1905.
- [34] **Shillington, D.J.**; Gaherty, J.B.; Ebinger, C.J.; Scholz, C.A.; Selway, K.; Nyblade, AA; Bedrosian, P.A.; Class, C.; Nooner, S.L.; Pritchard, M.E.; Elliott, J.; Chindandali, P.R. N.; Mbogoni, G.; Ferdinand, R.W.; Boniface, N.; Many, S.; Kamihanda, G.; Saria, E.; Mulibo, G.; Salima, J.; Mruma, A.; Kalindekafe, L.; Accardo, N.J.; Ntambila, D.; Kachingwe, M.; Mesko, G.T.; McCartney, T.; Maquay, M.; O'Donnell, J. P.; Tepp, G.; Mtelela, K.; Trinhammer, P.; Wood, D.; Ernest Aaron, E.; Gibaud, M.; Rapa, M.; Pfeifer, C.; Mphepo, F.; Gondwe, D.; Arroyo, G.; Eddy, C.; Kamoga, B.; Moshi, M. (2016), Acquisition of a Unique Onshore/Offshore Geophysical and Geochemical Dataset in the Northern Malawi (Nyasa) Rift, *Seismological Research Letters*, 87, 1-11, doi: 10.1785/0220160112.
- [33] Tominaga, M.; Tivey, M.A.; MacLeod, C.J.; Morris, A.; Lissenberg, C.J.; **Shillington, D.J.**; Ferrini, V. (2016) Characterization of the in situ magnetic architecture of oceanic crust (Hess Deep) using near-source vector magnetic data, *J. Geophys. Res.*, Vol. 121, 4130-4146, doi:10.1002/2015JB012783
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- [31] *Li, J.; **Shillington, D.J.**; Bécel, A.; Nedimovic, M.R.; Webb, S.C.; Kuehn, H. (2015) Downdip variations of seismic reflection character: Implications for fault structure and seismogenic behavior in the Alaska subduction zone. *J. Geophys. Res.*, Vol. 120, doi: 10.1002/2015JB012338.
- [30] **Shillington, D.J.**; Bécel, A., Nedimović, M.R., Kuehn, H., Webb, S.C. Abers, G.A., Keranen, K.M.; Li, J.; Delecluse, M.; Mattei-Salicrup, G.A. (2015). Link between plate fabric, hydration and subduction zone seismicity in Alaska. *Nature Geoscience*, Vol. 8, 961-964, doi:10.1038/ngeo02586.
- [29] Bécel, A.; **Shillington, D.J.**; Nedimović, M.R., Kuehn, H., Webb, S.C.W. (2015) Origin of dipping structures in fast-spreading oceanic lower crust offshore Alaska imaged by multichannel seismic data. *Earth Planet. Sci. Lett.* Vol. 424, 26-27, doi: 10.1016/j.epsl.2015.05.016
- [28] Kurt, H.; Sorlien, C.C., Seeber, L, Steckler, M.S., **Shillington, D.J.**, Cifci, G., Cormier, M.-H., Dessa, J.-X., Atgin, O., Dondurur, D., Demirbag, E., Okay, S., Imren, C., Gurcay, S., and Carton, H. (2013), Steady late Quaternary slip on the North Anatolian fault near Istanbul, Turkey, *Geophys. Res. Lett.* Vol 40, 4555-4559, doi:10.1002/grl.50882.
- [27] *Janiszewski, H. A., G. A. Abers, **Shillington, D.J.**, and J. A. Calkins (2013), Crustal structure along the Aleutian island arc: New insights from receiver functions constrained by active source data, *Geochem. Geophys. Geosys.* Vol 14, p. 2977-2992, doi: 10.1002/ggge.20211
- [26] Eddy, D.R., Van Avendonk, H.J.A., **Shillington, D.J.** (2013) Compressional and shear-wave velocity structure of the continent-ocean transition zone at the eastern Grand Banks, Newfoundland. *Geophys. Res. Lett.* Vol. 40, p. 3014–3020. doi:10.1002/grl.50511

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- [24] **Shillington, D.J.**, Van Avendonk, H.J.A.; Behn, M.D., Kelemen, P.B.; Jagoutz, O. (2013) Constraints on the composition of the Aleutian arc lower crust from V₂/V₃. *Geophys. Res. Lett.* v. 40, p. 2579–2584. doi:10.1002/grl.50375
- [23] **Shillington, D.J.**, Seeber, L., Sorlien, C.C., Steckler, M.S., Kurt, H., Dondurur, D., Çifci, G., Imren, C., Cormier, M.-H., McHugh, C.M.G, Gurcay, S., Poyraz, D., Okay, S., Athin, O., Diebold, J.B. (2012) Evidence for wide-spread creep on the Sea of Marmara transform basin from marine geophysical data, *Geology* Vol. 40, p. 439-442, doi:10.1130/G32652.1
- [22] Sorlien, C.C., Akhun, S.D., Seeber, L., Steckler, M.S., **Shillington, D.J.** Kurt, H., Çifçi, G.; Poyraz, D.T.; Gürçay, S., Dondurur, D., İmren, C., Perincek, E., Okay, S., Küçük, H.M, Diebold, J.B. (2012). Uniform basin growth over the last 500 ka, North Anatolian Fault, Marmara Sea, Turkey, *Tectonophysics* v.518, p1-16, doi:10.1016/j.tecto.2011.10.006
- [21] Crosby, A., White, N., Edwards, G.R.H., **Shillington, D.J.** (2010). Self-consistent strain rate and heat flow modelling of lithospheric extension: application to Newfoundland-Iberia conjugate margins. *Petroleum Geoscience*. Vol. 16. p. 247-256.
- [20] Péron-Pinvidic, G, **Shillington, D.J.**, Tucholke, B.E., (2010). Characterization of the U reflection on the Newfoundland margin: Evidence for widespread early post-rift magmatism on a magma-poor rifted margin. *Geophys J. Intl.* Vol. 182, p. 113-136
- [19] Edwards, R. A., Scott, C.L., **Shillington, D.J.**, Minshull, T.A., Brown, P.J., and White, N.J. (2009), Wide-angle seismic data reveal sedimentary and crustal structure of the Eastern Black Sea, *The Leading Edge*, 28, 1056-1065.
- [18] Scott, C.L., **Shillington, D.J.**, Minshull, T.A., Edwards, R.A., Brown, P.J., White, N.J. (2009) Wide angle data reveal extensive overpressures in the Eastern Black Sea Basin. *Geophys J. Intl.* Vol. 178, p. 1145-1163, doi: 1110.1111/j.1365-1246X.2009.04215.x.
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- [16] Van Avendonk, H.J.A., Lavier, L.L., **Shillington, D.J.**, Manatschal, G. (2009). Extension of continental crust at the eastern margin of the Grand Banks, Newfoundland. *Tectonophysics*. Vol 468, p. 131-148, doi:10.1016/j.tecto.2008.05.030.
- [15] **Shillington, D.J.**, Scott, C.L., Minshull, T.A., Edwards, R.A., Brown, P.J., White, N. (2009). Abrupt transition from magma-starved to magma-rich rifting in the eastern Black Sea. *Geology*. Vol. 37, p. 7-10, doi:10.1130/G25302A.1
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- [12] **Shillington, D.J.**, White, N.J., Minshull, T.A., Edwards, G.R.H., Jones, Stephen M., Edwards, R.A., Scott, C.L (2008). Cenozoic evolution of the eastern Black Sea: a test of depth-dependent stretching models. *Earth Planet. Sci Lett.* Vol. 365, p. 360-373, doi:10.1016/j.epsl.2007.10.033.
- [11] **Shillington, D.J.**, Minshull, T.A., Peirce, C., O’Sullivan, J.M. (2008). P and S wave velocities of consolidated sediments from a pilot seafloor seismic survey in the North Celtic Sea Basin, offshore Ireland. *Geophys. Prosp.* Vol. 56, p. 197-211, doi:10.1111/j.1365-3478.2007.00669.x
- [10] **Shillington, D.J.**, Tucholke, B.E., Karner, G.D., Sawyer, D., Holbrook, W.S., Delius, H., (2007). Linking core and seismic data without logs: Core-seismic correlation at Site 1276. In Tucholke, B.E., Sibuet, J.-C., Klaus, A., et al., *Proc. ODP, Sci. Results*, Vol. 210.
- [9] Pross, J., Pletsch, T., **Shillington, D.J.**, Ligouis, B., Kus, J., Schellenberg, F. (2007). Thermal alteration of terrestrial palynomorphs in mid-Cretaceous organic-rich mudstones intruded by an igneous sill (Newfoundland Margin, ODP Hole 1276A). *Intl. J. Coal Geol.* Vol. 70, p. 277-291.

- [8] Van Avendonk, H.J.A., Holbrook, W.S., Nunes, G.T., **Shillington, D.J.**, Tucholke, B.E., Loudon, K.E., Larsen, H.C., Hopper, J.R. (2006). Seismic velocity structure of the rifted margin of the eastern Grand Banks of Newfoundland, Canada. *J. Geophys. Res.* Vol. 111, B11404, doi:10.1029/2005JB004156.
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- [6] Karner, G.D., **Shillington, D.J.**, (2005). Basalt Sills of the 'U Reflector', Newfoundland Basin: A Serendipitous Dating Technique. *Geology*, Vol. 33, p. 985-988.
- [5] Minshull, T.A., White, N.J., Edwards, R.A., **Shillington, D.J.**, Scott, C.L., Demirer, A., Shaw-Champion, M., Jones, S., Erduran, M. Besevli, T., Raven, K., Price, A., Peterson, B., Coskun, G. (2005). New Seismic Data Reveal the Deep Structure of the Eastern Black Sea Basin. *EOS*, Vol. 86, p. 413,419.
- [4] **Shillington, D.J.**, Van Avendonk, H.J.A., Holbrook, W.S., Kelemen, P.B., Hornbach, M.J., (2004). Composition and structure of the central Aleutian island arc from arc-parallel wide-angle seismic data. *Geochem. Geophys. Geosyst.*, Vol. 5, Q10006, doi:10.1029/2004GC000715.
- [3] Van Avendonk, H.J.A., **Shillington, D.J.**, Holbrook, W.S., Hornbach, M.J., (2004). Inferring crustal structure in the Aleutian island arc from a sparse wide-angle data set. *Geochem. Geophys. Geosyst.*, Vol. 5, Q08008, doi: 10.1029/2004GC000664.
- [2] **Shillington, D.J.**, Holbrook, W.S., Tucholke, B.E., Hopper, J.R., Loudon, K.E., Larsen, H.C., Van Avendonk, H.J.A., Deemer, S., Hall, J. (2004). Marine Geophysical Data on the Newfoundland Non-volcanic Rifted Margin Around SCREECH Transect 2. In Tucholke, B.E., Sibuet, J.-C., Klaus, A., et al., *Proc. ODP, Init. Reports*, Vol. 210: College Station, TX.
- [1] Hopper, J.R., Funck, T., Tucholke, B.E., Larsen, H.C., Holbrook, W.S., Loudon, K.E., **Shillington, D.**, Lau, H., (2004). Continental breakup and the onset of ultra-slow seafloor spreading off Flemish Cap on the Newfoundland Rifted Margin. *Geology*, Vol. 32, p. 93-96.

In review:

- Miller, P.K.; Saffer, D.M.; Abers, G.A.; **Shillington, D.J.**, Kernanen, K.M.; Bécel, A., Li, J.; Bate, C. (in review). Entrained and foliated sediment: a cause of low velocity zones on subduction megathrusts. *Nature Geoscience*.
- Barcheck, C.G.; Abers, G.A.; Adams, A.N.; Bécel, A.; Collins, J.; Gaherty, J.B.; Haeussler, P.J.; Li, Z.; Moore, G.; Onyango, E.; Roland, E.; Sampson, D.E.; Schwartz, S.Y.; Sheehan, A.; **Shillington, D.J.**; Shore, P.J.; Webb, S.; Wiens, D.A.; Worthington, L.L. (in press). The Alaska Amphibious Community Seismic Experiment. *Seismological Research Letters*.

Non-referred publications:

- Shillington, D.J.** (2019) Water takes a deep dive into the Mariana Trench. *Nature News and Views*. v. 563, 335-336.
- Shillington, D.J.**, McNeill, L.C.; Carter, G.D.O., and the Expedition 381 Participants. (2019) Expedition 381 Preliminary Report: Corinth Active Rift Development. International Ocean Discovery Program. doi: 10.14379/iodp.pr.381.2018
- McNeill, L.C.; **Shillington, D.J.**, Carter, G.D.O., and the Expedition 381 Participants. (2019) Corinth Active Rift Development. Proceedings of the International Ocean Discovery Program, 381: College Station, TX (International Ocean Discovery Program). Doi:10.14379/iodp.proc.381.102.2019
- Tucholke, B.E., Sibuet, J.-C., Klaus, A., et al. (2004). *Proc. ODP, Init. Repts.*, 210: College Station, TX (Ocean Drilling Program). doi:10.2973/odp.proc.ir.210.2004

EXAMPLES OF RECENT CONFERENCE ABSTRACTS (2017-2018)

- Shillington, D.J.** (2018) Towards universal controls on extensional processes from observations of temporal and spatial heterogeneity in ancient and active rifts (Invited), *Eos, Transactions, AGU Fall Meeting*

- Shillington, D.J.**, Scholz, C.A.; Accardo, N.J., Chindandali, P.R.N., Onyango, E.A., Gaherty, J.B.; Ebinger, C.J.; Nyblade, A. A.; Pham, T.Q.,H., Oliva, S.J.C., Kamihanda, G.; Ferdinand, R. W. (2018) Intrabasin faults accommodate significant cumulative and recent extension in the early stage Malawi Rift, East Africa, *Eos, Transactions, AGU Fall Meeting*
- Pham, T.Q.H , Ebinger, C.J., Oliva, S.J.C., Petersen, K.J., Chindandali, P.R.N., **Shillington, D.J.** (2018) Kinematics and Geometry of Active Faults in the Magma-Poor Malawi rift, East Africa, *Eos, Transactions, AGU Fall Meeting*
- Davis, J.K., Bécel, A., **Shillington, D.J.**, Buck, W.R. (2018) The Distribution and Characteristics of Seaward Dipping Reflectors Along the Eastern North American Margin, *Eos, Transactions, AGU Fall Meeting*
- * Gibson, J.C., Miller, N.C., Hutchinson, D.R, **Shillington, D.J.**, Mountain, G.S. (2018) Evidence of Extensive Carbonate Dissolution associated with the late Eocene Inundation of North Atlantic Deep-water along the U.S. mid-Atlantic Margin, *Eos, Transactions, AGU Fall Meeting*
- McNeill, L.C., **Shillington, D.J.**, Carter, G., Expedition 381 Scientistis (2018) Rift history, syn-rift sedimentation and paleoenvironment of the Corinth Rift basin: IODP Expedition 381 preliminary results, *Eos, Transactions, AGU Fall Meeting*
- * Marzen, R.E., **Shillington, D.J.**, Lizarralde, D., Harder, S.H., Davis, J.K. (2018) Refraction seismic constraints on less extensive CAMP magmatism localized by prior extension in the Southeastern United States, *Eos, Transactions, AGU Fall Meeting*
- Scholz, C.A., **Shillington, D.J.**, Accardo, N.J., Wright, L.J.M., Gaherty, J.B. (2018) Extension in the Central Basin of the Lake Malawi (Nyasa) Rift: Basement Structure from Active Source Seismic Data, *Eos, Transactions, AGU Fall Meeting*
- Brandl, C., Worthington, L.L., Magnani, M.B., Shuck, B., Shillington, D.J. (2018) Along-strike Refraction Tomography Results from the ENAM Community Seismic Experiment within the East Coast Magnetic Anomaly, *Eos, Transactions, AGU Fall Meeting*
- * Carchedi, C.J.W., Gaherty, J.B., **Shillington, D.J.**, Accardo, N.J., Scholz, C.A., Chindandali, P.R.N., Ferdinand, R., Nyblade, A.A., (2018) Investigating Short-Period Microseisms near Lake Malawi using a Broadband Array of Onshore and Lake-Bottom Seismometers, *Eos, Transactions, AGU Fall Meeting*
- Naif, S., Miller, N.C., Shillington, D.J., Bécel, A., Lizarralde, D., (2018) Intraplate volcanism, melt ponding at the LAB, and the Galápagos plume: a confluence of conspicuous constraints characterizing the Cocos crust, *Eos, Transactions, AGU Fall Meeting*
- Hopper, E., Marzen, R.E., Fischer, K.M., **Shillington, D.J.**, Hawman, R.B. (2018) CONTINENTAL COLLISIONS DURING APPALACHIAN OROGENESIS AS REVEALED BY NEW GEOPHYSICAL OBSERVATIONS FROM THE SOUTHEASTERN U.S (Invited Presentation). GSA Meeting
- Hopper, E., Gaherty, J.B., Shillington, D.J., Accardo, N.J., Nyblade, A.A., Ebinger, C.J., Scholz, C.A., Chindandali, P.R.N., Ferdinand, R.W., Mbogoni, G.J., Mulibo, G.D. (2018) ENHANCED LITHOSPHERIC MANTLE THINNING IN THE MELT-POOR MALAWI RIFT). GSA Meeting
- * Marzen, R.E., **Shillington, D.J.**, Lizarralde, D., Harder, S.H (2018) EVIDENCE FOR TERRANE ACCRETION, LOCALIZED RIFTING AND MAGMATISM FROM THE CRUSTAL VELOCITY STRUCTURE OF THE SOUTHEASTERN UNITED STATES. GSA SE Section Meeting
- McNeill, L.C., **Shillington, D.J.**, Carter, G., Expedition 381 Scientistis (2018) Preliminary results from IODP Expedition 381: Development of the active Corinth Rift, Greece, EGU Spring Meeting
- * Gibson, J.C., Miller, N.C., Hutchinson, D.R.; ten Brink, U., Mountain, G.S., Chaytor, J.D., **Shillington, D.J.** (2017) Expanded U.S. mid-Atlantic Margin Deep-Water Allostratigraphy; Bottom-Current Controls on Margin Evolution, *Eos, Transactions, AGU Fall Meeting*
- Scholz, C.A., **Shillington, D.J.** McCartney, T. (2017) Multimillion-Year Evolution of a Sublacustrine Fan System: Source-to-Sink History of the South Rukuru and Ruhuhu River Drainages, Lake Malawi (Nyasa) Rift, East Africa, *Eos, Transactions, AGU Fall Meeting*
- Lizarralde, D.; **Shillington, D.J.**, Harder, S. (2017) Crustal structure across the Brunswick Magnetic Anomaly in Southern Georgia, *Eos, Transactions, AGU Fall Meeting*
- Davis, J.K., Bécel, A., **Shillington, D.J.**, Buck, W.R. (2017) Insights into crustal structure of the Eastern North American Margin from community multichannel seismic and potential field data, *Eos, Transactions, AGU Fall Meeting*

- Hopper, E.J., Gaherty, J.B., **Shillington, D.J.** (2017) Rifting the continental lithosphere: case studies of the lithosphere-asthenosphere system in rifted settings across the western U.S. and in the southern East African Rift (Invited), *Eos, Transactions, AGU Fall Meeting*
- * Marzen, R.E., **Shillington, D.J.**, Lizarralde, D., Harder, S.H. (2017) Evidence for Terrane Accretion, Localized Rifting and Magmatism from the Crustal Velocity Structure of the Southeastern United States, *Eos, Transactions, AGU Fall Meeting*
- * Accardo, N.J., **Shillington, D.J.**, Gaherty, J.B.; Scholz, C.A.; Ebinger, C.J.; Nyblade, A. A.; McCartney, T., Chindandali, P.R.N., Kamihanda, G.; Ferdinand, R. W. (2017) Evidence for Strong Controls from Preexisting Structures on Border Fault Development and Basin Evolution in the Malawi Rift from 3D Lacustrine Refraction Data, *Eos, Transactions, AGU Fall Meeting*. **won GeoPRISMS student prize
- Pritchard, M.E., Zheng, W., Henderson, S.T., Gaherty, J.B., **Shillington, D.J.**, Oliva, S.J., Ebinger, C.J., Nooner, S.L., Elliot, J., Saria, E., Ntambila, D., Chindandali, P. (2017) Rifting mechanisms constrained by InSAR, seismicity, GPS, and surface rupture from the Karonga earthquake sequence in northern Lake Malawi (Nyasa) , *Eos, Transactions, AGU Fall Meeting*.
- Hu, Y., Guild, M.R., Naif, S., Eimer, M.O., Evans, O., Fornash, K., Plank, T., **Shillington, D.J.**, Vervelidou, F., Warren, J.M., Wiens, D. (2017) A multidisciplinary approach to constrain incoming plate hydration in the Central American Margin, *Eos, Transactions, AGU Fall Meeting*.
- Shillington, D.J.**, Accardo, N.J., Gaherty, J.B.; Scholz, C.A.; Ebinger, C.J.; Nyblade, A. A.; McCartney, T., Chindandali, P.R.N., Kamihanda, G.; Ferdinand, R. W. (2017) Constraints on the Crustal Structure of the Malawi Rift from Far Offset Lacustrine Refraction Data , *Eos, Transactions, AGU Fall Meeting*.
- Schuba, C.N.; Sawyer, D.S.; Gray, G.G.; Morgan, J.; Bull, J., Shillington, D.J.; Jordan, B., Reston, T.J. (2017) 3-D Structure and Morphology of the S-reflector Detachment Fault, Offshore Galicia, Spain, *Eos, Transactions, AGU Fall Meeting*
- Bécel, A., Carton, H., **Shillington, D.J.**, (2017) Uppermost oceanic crust structure and properties from multichannel seismic data at the Alaska subduction zone, *Eos, Transactions, AGU Fall Meeting*
- Roche, P.-H., Deleschus, M., Bécel, A., Nedimović, M.R., Shillington, D.J., Webb, S., Kuehn, H. (2017) Long streamer waveform tomography imaging of the Sanak Basin, Alaska subduction zone, EGU Spring Meeting
- Oliva, S.J., Ebinger, C.J., **Shillington, D.J.**, Albaric, J., Deschamps, A., Keir, D., Droof, C. (2017) Comparison of magmatic and amagmatic rift zone kinematics using full moment tensor inversions of regional earthquakes

FUNDED PROPOSALS

Active

- NSF-OCE-1853676, 8/31/2019-8/31/2021, \$510,768. *Collaborative Research: A Seismic Study of Oceanic-Arc Crustal Construction Processes at the Archetypal Andean Segment of the Aleutian Arc.* (PI: Shillington. Collaborative with Lizarralde (WHOI)).
- NSF-OCE-1830717, 9/1/2019-8/31/2020, \$316,215. *Collaborative Research: Constraints on sediment physical properties at the Cape Fear and Currituck landslides from velocity analysis of new, open access seismic reflection data.* (PI: Fortin, co-PI's: Bécel, Shillington. Collaborative with Sawyer (OSU)).
- NSF-OCE-1847927. 6/1/2018-5/31/2021, \$588,284. *Collaborative Research: Seismic imaging of volcano construction, underplating and flexure along the Hawaiian-Emperor Seamount Chain.* (PI: Shillington, co-PIs: Watts. Collaborative with Dunn, Ito, Weissel (Hawaii)).
- NSF-OCE-(GeoPRISMS)-1654560. 9/1/2018-8/31/2020, \$1,058,383. *Collaborative Research: Marine EM Survey of Fluids in the Alaskan Megathrust.* (PI: Key, co-PI's: Naif, Shillington. Collaborative with Evans (WHOI)).
- USSSP-PEA, IODP Expedition 381. 9/1/2018-8/31/2019, \$18,000. *Improving seismic-core integration for Expedition 381 with 1D seismic waveform inversion.* (PI: Shillington).
- NSF-OCE-(GeoPRISMS)-1654629. 4/15/2017-4/14/2019, \$131,664. *Along-strike variations in synrift magmatism on the Eastern North American Margin.* (PI: Shillington)

Completed

- NSF-EAR-(Continental Dynamics)-1110921, 1/01/2012-12/31/2019, \$2,629,845 (+\$132,000 supplement) *Collaborative Research: Tectonic and magmatic processes during early early-stage rifting: an integrated study of northern Lake Malawi.* (PI: Shillington, co-PI's: Gaherty, Class, Nooner Collaborative with Ebinger (Rochester), Nyblade (Penn State), Pritchard (Cornell), Scholz (Syracuse), Bedrosian (USGS))
- NSF-EAR-(EarthScope)-1144534, 7/1/2012-6/31/2018, \$534,106. *Collaborative Research: Rifting, Magmatism, and Lithospheric Sutures; Crustal Imaging of the South Georgia Basin and Suwanee Suture.* (PI: Shillington. Collaborative with Lizarralde (WHOI) and Harder (UTEP))
- NSF-EAR-(GeoPRISMS) 1347312. 1/1/2014-12/31/2016, \$252,173. *Collaborative Research: The Aleutian megathrust from trench to base of the seismogenic zone; integration and synthesis of laboratory, geophysical and geological data* (PI: Shillington, co-PIs: Becel, Nedimovic. Collaborative with Saffer (Penn State) and Abers, Keranen (Cornell)).
- NSF-OCE-1030650, 3/15/2013-2/29/2016, \$359,005. *Collaborative Research: Seismic Study of the Galicia S Detachment.* (PI: Shillington. Collaborative with Sawyer, Morgan (Rice University))
- NSF-OCE-1347498. 7/1/2013-6/30/2015, \$279,124. *Collaborative Research: A community seismic experiment targeting the pre-, syn- and post-rift evolution of the Mid-Atlantic US margin.* (PI: Shillington, co-PIs: Gaherty, Bécel. Collaborative with Van Avendonk (UTIG), Lizarralde (WHOI), Hornbach and Magnani (SMU), Dugan (Rice), Long (Yale), Benoit (TCNJ)).
- NSF-EAR-(GeoPRISMS)-1049620 12/15/2010-11/30/2012, \$102,793, *Collaborative Research: Faulting processes during early-stage rifting: analysis of an unusual earthquake sequence in northern Malawi.* (PI: Gaherty, co-PIs: Shillington, Nooner. Collaborative with Pritchard (Cornell))
- Earth Institute of Columbia University, Junior Faculty Grant program. 6/1/2013, \$12,450. *Faulting and seismicity during early stage continental rifting in Malawi: integrating datasets and supporting seismic monitoring.* (PI: Shillington)
- NSF-EAR-1019379, 1/01/2010-12/31/2010, \$13,000, *Constraining early-stage rifting through rapid response to the Lake Malawi Earthquake sequence of December 2009.* (PI: Gaherty, co-PIs: Shillington, Nooner)
- NSF-OCE-0926614, 1/01/10-12/31/12, \$681,153 *Megathrust seismic hazards by reflection mapping* (PI: Shillington, co-PIs: Nedimovic, Diebold, Webb)
- NSF-OISE-0949559, 9/15/09-12/31/10, \$23,400 *US-Malawi Planning Visit: Developing a multidisciplinary, multinational study of continental rifting, seismicity and volcanism around northern Lake Malawi,* (PI: Shillington co-PIs: Gaherty, Nooner).
- NSF-OCE-09-28447, 9/1/09-08/31/11, \$300,000 *Collaborative Research: The North Anatolian Fault in the Marmara Sea, Turkey: The Growth of Continental Transform Basins.* (PI: Steckler co-PIs: Diebold, Seeber, Shillington. Collaborative with Sorlien (UC Santa Barbara)).
- USSSP, 8/1/2008-7/31/2009, \$38,785. *High-resolution characterization of the north wall of Hess Deep using multi-resolutional geophysical datasets in support of Proposal 551-Full.* (PI: Shillington, co-PI: Ferrini).

FIELD EXPERIENCE

- April-June 2019: Hawaii-Emperor Seamount Chain Seismic Experiment, Part 2. Chief Scientist, R/V *Marcus G. Langseth*
- Oct-Nov 2018: Hawaii-Emperor Seamount Chain Seismic Experiment, Part 1. Chief Scientist, R/V *Marcus G. Langseth*
- May 2018: Deployment of broadband seismic array on Kodiak as a part of the Alaska Amphibious Community Seismic Experiment (AACSE).
- Feb. 2018: IODP Expedition 381, Corinth Active Rift Development, Co-chief scientist, Onshore Science Party, MARUM, Bremen, Germany
- Oct-Dec. 2017: IODP Expedition 381, Corinth Active Rift Development, Co-chief scientist. D/V *Fugro Synergy*
- Oct. – Nov. 2015: Recovery of onshore seismic deployment in Malawi and Tanzania for SEGMeNT project
- Oct. 2015: Recovery of broadband ocean-bottom seismometers in Lake Malawi for SEGMeNT project. Co-chief scientist, M/V *Chilembwe*

- Aug. 2015: Onshore seismic refraction experiment for the SUwanne suture and GA rift experiment, part 2
- Feb-April 2015: Seismic reflection/refraction experiment in Lake Malawi for SEGMeNT project. Chief scientist, M/V *Katundu*
- Sept. – Oct. 2014: Eastern North American Margin Community Seismic Experiment. Chief scientist, R/V *Marcus G. Langseth*
- June – Aug. 2014: Onshore seismic deployment in Malawi and Tanzania for SEGMeNT project
- May 2014: Onshore broadband seismic deployment in North Carolina for the Eastern North American Margin Community Experiment.
- March 2014: Onshore seismic refraction experiment for the SUwanne suture and GA rift experiment, part 1
- Aug. 2013: Onshore seismic deployment around Rungwe volcanic province for SEGMeNT project
- June – July 2013: 3D seismic reflection imaging of rifting structures offshore Galicia. Co-chief scientist, R/V *Marcus G. Langseth*
- June – Aug. 2011: Onshore/offshore active-source seismic study of the Alaska subduction zone. Chief scientist, R/V *Marcus G. Langseth*
- March 2011: Setup cruise to prepare for 3D program off Costa Rica. Chief Scientist, R/V *Marcus Langseth*
- June 2010: Acquisition of high-resolution multi-channel seismic data in the Sea of Marmara to complement 2008 program. Shipboard Scientist, R/V *K. Piri Reis*
- Jan, May 2010: Rapid-response seismic deployment following swarm of earthquakes in northern Malawi
- Oct 2009: Re-occupied two GPS monuments in northern Malawi during planning visit
- July 2008: High-resolution multi-channel seismic study of recent tectono-sedimentary history of Sea of Marmara. Shipboard Scientist, R/V *K. Piri Reis*
- Jan. – Feb. 2008: ROV and microbathymetry study of exposed oceanic lower crust in Hess Deep (JC021). Geophysics Team Leader, RRS *James Cook*
- Nov. 2006: Commercial shallow OBS study of P- and S-wave velocity structure of sediments in North Celtic Sea basin. Shipboard Scientist, M/V *Sea Surveyor*
- Feb. – March 2006: Onshore-offshore wide-angle seismic study of deep structure of the eastern Black Sea Shipboard Scientist, R/V *Iskatel*
- July – Sept. 2003: Drilling expedition to Newfoundland magma-poor rifted margin (ODP Leg 210) Logging Scientist, R/V *JOIDES Resolution*
- Oct. – Nov. 2002: Multi-channel seismic reflection and wide-angle reflection/refraction study of the Gulf of California extensional system. Shipboard Scientist, R/V *New Horizon*
- Sept. – Oct. 2000: 3D seismic reflection study of the Blake Ridge gas hydrate province Watchstander, R/V *Maurice Ewing*
- July – Aug. 2000: Multi-channel seismic reflection and wide-angle reflection/refraction study of the Newfoundland magma-poor rifted margin. Watchstander, R/V *Maurice Ewing*

ADVISING AND MENTORING

Student advising and committees

Valeria Cortés Rivas	NAU, PhD Advisor	2021-present
Jacob Clarke	NAU, PhD Advisor	2020-present
Emily Schottenfels	NAU, PhD Committee	2020- present
Tanner Acquisto	LDEO, PhD Committee	2018- present
Chris Carchedi	LDEO, PhD Co-advisor	2017-present
Brandon Schuck	UTIG, PhD Committee	2018-present
Evans Onyango	IRIS summer undergraduate intern, Co-advisor	2016
Arnold Eatmon	IRIS summer undergraduate intern, Co-advisor	2016
Tierney Larson	LDEO, PhD Committee	2016-2017
Rachel Marzen	LDEO, PhD Advisor	2015-present
Bridgit Boulahanis	LDEO, PhD Committee	2015-present

Tannis McCartney	Syracuse, PhD Committee	2015-2016
James Gibson	LDEO, PhD Advisor	2012-present
Natalie Accardo	LDEO, PhD Co-advisor	2012-2018
Gary Mesko	LDEO, PhD Committee	2012-2019
Drew Eddy	UTIG, PhD Committee	2012 – 2014
Harold Kuehn	Dalhousie, PhD Committee	2011-2019
Jiyao Li	LDEO, PhD Co-advisor	2010-2016
Nathan Miller	WHOI, PhD Committee	2011-2013
Andrew Wessbecher	Columbia undergraduate thesis advisor	2011-2012
Helen Janiszewski	LDEO Summer intern, Co-advisor	2010
Phyllis Thangaraj	LDEO Summer intern, Co-advisor	2009
Peter Brown	University of Southampton, MSc	2006

Postdoc/research scientist mentoring

Brian Boston	LDEO, Postdoctoral Researcher	2019-present
Samer Naif	LDEO, Lamont Postdoctoral Fellow	2015-2018
Nathan Miller	LDEO, Lamont Postdoctoral Fellow	2012-2013
Kate Selway	LDEO, Assoc. Research Scientist	2013-2015
Anne Bécel	LDEO, Assoc. Research Scientist	2011-2014

External examiner

Gabriel Huot, PhD (advisor: Satish Singh)	Institut de Physique du Globe de Paris, France	Nov. 2016
Alexandra Wright, MS (advisor: Karen Block)	City University of New York, New York	Apr. 2016
Nada El Tahir, PhD (advisors: Ray Durrheim and Andrew Nyblade)	University of Witwatersrand, Johannesburg, South Africa	Dec. 2014
Drew Eddy (advisor: Harm Van Avendonk)	University of Texas Institute for Geophysics, Austin, TX	Aug. 2014
Nathan Miller, PhD (advisor: Dan Lizarralde)	Woods Hole Oceanographic Institution, Woods Hole, MA	April 2013
Joanna Gerlings, PhD (advisor: Keith Louden)	Dalhousie University, Halifax, Nova Scotia	Jan. 2013
Sylvie Leroy, HDR	Universit�e Pierre et Marie Curie Paris VI, France	July 2010
Louise Watrimez, PhD (advisors: Sylvie Leroy and Elia d’Acremont)	Universit�e Pierre et Marie Curie Paris VI, France	July 2010
Byrdie Renik, PhD (advisors: Nick Christie-Blick and Mark Anders)	Columbia University, NY	Sept. 2009
Julia Autin, PhD (advisors: Sylvie Leroy and Phillipe Huchon)	Universit�e Pierre et Marie Curie Paris VI, France	Dec. 2008

OTHER LEADERSHIP AND SERVICE

Leadership and service in national organizations and committees

Subduction Zone 4D Steering Committee	Oct 2017 - present
IRIS Seismic Source Facility Advisory Committee	March 2020 - present
UNOLS Marine Seismic Research Oversight Committee (<i>ex officio</i>)	April 2017 – Dec 2019
IRIS Board of Directors	Jan 2017 – Dec 2019
EarthScope Steering Committee	July 2016 – July 2019
AGU Aki Young Scientist Award committee, chair	
AGU Aki Young Scientist Award committee, member	
IRIS TA Advisory Committee (TAAC)	Jan 2016 – Jan 2017
IRIS Data Products Working Group	April 2014 – July 2016

IRIS TA Advisory Committee (TAAC)	Jan 2014 – Jan 2015
USArray Advisory Committee (USAAC)	Jan 2011 – Dec 2013
GeoPRISMSs Steering Committee	Oct 2010 – Oct 2013
Writing Committee, MARGINS Successor Plan	Feb – April 2010
AGU Fall Meeting Planning Committee	2009 – 2010

Workshop convener

Co-convener, SAGE-GAGE Workshop “Earth in 4D”.	Oct. 2019
Co-convener, GeoPRISMS Theoretical and Experimental Institute on Rift Initiation and Evolution	Feb. 2017
Co-convener, GeoPRISMS Theoretical and Experimental Institute on Subduction Cycles and Deformation	Oct. 2015
Co-convener, GeoPRISMS workshop on East Africa Rift and co-authored associated implementation plan	Oct. 2012
Co-convener, GeoPRISMS-EarthScope workshop on Alaska/Aleutian subduction zone and co-authored associated implementation plan	Oct. 2011
Co-convener, GeoPRISMS-EarthScope mini-workshop on Eastern North American Margin	May 2011
Steering committee, “Maximizing EarthScope in Alaska” workshop, Austin, TX	May 2011
Co-convener, GeoPRISMS RIE implementation workshop, Sante Fe, NM	Nov. 2010
Steering Committee, R/V <i>Langseth</i> Workshop	March 2010

Session Co-convener

AGU Fall Meeting, 2016:	“The Aleutian-Alaska Arc: Volcanic and Tectonic Processes” (co-conveners: T. Plank, A. Wech, J. Powers)
AGU Fall Meeting, 2016:	“One Rift, Two Rift, Magma-Rich Rift, Magma-Poor Rift: Deformation, Magmatism, Volatile Fluxes, and Their Consequences in the East African Rift System” (co-conveners: N. Accardo, T. Fischer, J. Biggs)
IRIS Natl. Meeting, 2016:	Seismology Across Scales: Enhanced Imaging and Source Characterization (co-convener: G. Pavlis)
AGU Fall Meeting, 2011:	“Alaska Region Tectonic, Sedimentary, and Climatic Processes” (co-conveners: G. Christeson, W. Wood, G. Barth)
AGU Fall Meeting, 2007:	“Bringing together models and observations at rifted margins and extensional basins” (co-conveners: G. Péron-Pinvidic, J. Van Wijk)
EGU Spring Meeting, 2007:	“Tectonics and magmatism during continental rifting and breakup” (co-conveners: M. Pérez-Gussinye, R. Huismans)
AGU Fall Meeting: 2006:	“Extensional processes leading to the formation of basins and rifted margins, from volcanic to magma-limited” (co-conveners: G. Péron-Pinvidic, J. Van Wijk, L. Gernigon)

Co-editor of Special Issue

Role of magmatism in continental lithosphere extension: structure, chemistry and evolution of rifts, *Tectonophysics* (2009). Co-editors: G. Péron-Pinvidic, J. Van Wijk, **D.J. Shillington**, L. Gernigon. Vol 468, Issues 1-4, pp. 1-246.

Reviewer

Basin Research; Bulletin of the Seismological Society of America; Earth and Planetary Science; Earth Planets Space; Geochemistry, Geophysics, Geosystems; Geological Journal London; Geology; Geophysical Journal International; Geophysical Research Letters; Geophysics; Geosphere, Journal of Geophysical Research; Marine Geophysical Research; Marine and Petroleum Geology; Nature; Nature Communications; Nature Geoscience; New Zealand Journal of Geology and Geophysics, Seismological Research Letters, Tectonics; Tectonophysics; Terra Nova.

Other service

Alumni Advisory Board, University of Wyoming Dept. Geology & Geophysics 2014 – 2018

Institutional Service

Northern Arizona University

Chair of PhD Advisory Council July 2020 – present

Lamont-Doherty Earth Observatory

MGG representative on Executive Committee Mar. 2016 – Dec 2019
Chair of search committee for Lamont Research Professor in solid earth processes Dec. 2015 – May 2016
Co-leading effort to spin up “Anticipating Earthquakes” strategic initiative Sept 2014 – Dec. 2020
Search committee for Lamont Research Professor in solid earth processes Dec. 2014 – April 2014
Search committee for DEES Experimental Earth Science faculty Oct. 2013 – July 2014
LDEO Strategic Planning Committee Jan. 2013 – Oct 2014
Junior staff representative, Executive Committee, LDEO April 2010 – July 2014
Advisory committee for Academic Affairs & Diversity at LDEO June 2009 – Jan 2012
LDEO Search Committee for Director of Strategic Initiatives, Development & External Relations April 2012 – Jan 2013
DEES Strategic Planning Committee March 2012 – Fall 2012
LDEO Director’s Search Committee March 2011–May 2012
LDEO Salary Review Committee May 2009 – May 2010
LDEO Search committee for Geodynamics LRP Oct 2008 – Dec. 2008
Back-up junior staff representative, Executive Committee, LDEO Oct. 2008 – April 2010

National Oceanography Centre, Southampton

Geology and Geophysics seminar organizer 2007 - 2008

University of Wyoming

Graduate student representative, College of Arts and Sciences, Central Committee (advisory committee to the Dean) Jan. 2003 – May 2004

Outreach activities

Blog on Hawaii-Emperor Seamount Seismic Experiment 2018, 2019
Lecture to Kendal on Hudson Senior Living Center on earthquakes and tsunamis April 2018
Lecture for LDEO summer interns on mapping faults beneath Lake Malawi June 2017
Lecture to Bedford Farmers Club about earthquakes and tsunamis April 2017
Lecture in Lamont’s annual Open House on earthquakes and tsunamis Oct 2016
Lecture for LDEO summer interns on mapping faults beneath Lake Malawi June 2015
Lecture for LDEO summer interns on great earthquakes in Alaska June 2014
Blog about seismic refraction experiment in Georgia March 2014,
<http://sugarseismic.blogspot.com/> August 2015
Blog about Eastern North American Margin research cruises Sept. 2014
<http://enamseismic.blogspot.com/>
Blog about seismic deployment in Rungwe Volcanic Province, Tanzania August 2013
<http://blogs.ei.columbia.edu/tag/east-africa-rift/>
Blog about *Langseth* cruise offshore Spain. <http://galicia3d.blogspot.com> June-July 2013
Demonstration at annual Lamont Open House event for the public on air guns October 2011-12
Lecture in Lamont’s spring public lecture series, “Mapping the source of Great Alaska Earthquakes”
<http://www.ldeo.columbia.edu/video/mapping-source-great-alaskan-earthquakes> April 2012
Blog about *Langseth* cruise offshore Alaska and associated fieldwork June-August 2011
<http://blogs.ei.columbia.edu/tag/great-alaskan-earthquakes/>
Blog about return cruise to the Sea of Marmara June 2010
<http://blogs.ei.columbia.edu/2010/06/13/surveying-the-sea-of-marmara-to-understand-faults-and-earthquakes-in-turkey/>
Blog series about rapid response effort to earthquakes in Malawi (with J.B. Gaherty) Jan-May 2010
<http://blogs.ei.columbia.edu/tag/east-africa-rift/>
Held townhall meetings, visited schools, and conducted media interviews in towns on the Alaska Peninsula (Kodiak, Sand Point) ahead of upcoming *Langseth* cruise (with M. Nedimović) April 2010
Conducted a series of interviews with press in Malawi about cause of earthquakes and utility of monitoring (with J.B. Gaherty) Jan 2010

Taught half-day program to high-school science teachers about incorporating plate tectonics in their curricula, National Oceanography Centre

May 2005,2006

TEACHING EXPERIENCE

Northern Arizona University

Spring 2020: Advanced Geologic Field Methods (GLG440C). Co-taught with Ryan Porter, Christine Regalla, Lisa Thompson

Columbia University

Fall 2019: Plate Tectonics. Co-taught with James Gaherty
Fall 2019: Hydration and Dehydration of the oceanic lithosphere. Co-lead with Christine Chesley
Fall 2016: East Coast Earthquakes seminar. Co-lead with Heather Savage, Jim Gaherty, Felix Waldhauser
Spring 2016: Deformation and magmatism in continental rifts seminar. Co-lead with Zach Eilon, Natalie Accardo, Jim Gaherty and Roger Buck
Summer 2015: Marine reflection seismology short course (8 days long) for Eastern North American Margin Community Seismic Experiment for students/young scientists from across US. Co-taught with Anne Bécél and Matt Hornbach (SMU)
Fall 2014, 2016: Guest lecturer in “Seismology” (Waldhauser) on reflection seismology
Spring 2014: Slab bending and hydration seminar. Co-lead with Nathan Miller and Suzanne Carbotte
Spring 2013: Subduction Mechanics seminar. Co-lead with Heather Savage and Chris Scholz
Fall 2011: Marine reflection seismology course for Geological Survey of India. Co-taught with Helene Carton
Spring 2011: Seagoing experience in Earth Science. Co-taught with Maya Tolstoy
Fall 2009: Guest lecture in “Introduction to Oceanography” (Hönisch) on interplay of plate tectonics and oceans

University of Strasbourg (during time as a visiting researcher)

Spring 2007: “What can geophysics tell us about the opening history of the eastern Black Sea?” – Two lectures to upper-level undergraduate and graduate students on quantitative methods for studying extension illustrated by examples from Black Sea project

National Oceanography Centre, Southampton

Summer 2007: SOES6003, Formation/evolution of oceanic crust (upper level undergraduate, graduate). Contributed 2 lectures / 2 labs on geophysical properties of oceanic crust and magma chambers.
Spring, 2007: SOES2012, Key skills for geophysicists (2nd year undergraduate). Designed and taught entire course focusing on basic presentation, written and quantitative skills for geophysicists.
Fall 2006, 2007: SOES6004, Applied and Marine Geophysics (upper level undergraduate, graduate). Contributed 8-10 lectures / 4 labs on magnetism and gravity.
Fall 2006, 2007: SOES3032, Global Tectonics (3rd year undergraduate). Contributed 2 lectures and 1 lab on passive margins (2006) and continental rifting (2007).
Fall 2006, 2007: Taught two sessions of Science Learning Centre about plate tectonics for earth science high school teachers
Fall 2005-2007: SOES6001, Contemporary topics (upper level undergraduate, graduate). Lead seminar on one topic each year. Continental rifting (2005, 2006) and island arc magmatism (2007).

University of Wyoming

Spring 2003: Fundamentals of Geology II (Geophysics). (undergraduate). Lead (and sometimes designed) laboratories and delivered 2 lectures as teaching assistant.
Fall 2002: Seismic Processing (upper level undergraduate, graduate). Lead (and sometimes designed) laboratories as teaching assistant.

University of Georgia

Summer 1998: Honors Anthropology and Geology Summer Field Program. Served as teaching assistant on 9-week-long field course visiting national parks around the US that covers Physical Geology, Historical Geology and Anthropology for undergraduates.

AWARDS

MARGINS Distinguished Lecturer	MARGINS – NSF	2008-2010
Voted ‘Outstanding seminar presentation for spring semester 2009	Graduate geology seminar class, Univ. Kentucky	May 2009
MARGINS Outstanding Student Presentation	MARGINS – NSF	Dec. 2003
Best Poster – Rocky Mountain Rendezvous	AAPG	Oct. 2002
Outstanding Student Paper Award - Tectonophysics	AGU	Dec. 2001
Outstanding Women in Geoscience Student Award	Assoc. of Women in Geoscience	2000, 2004
Undergraduate Geology Student of the Year	University of Georgia	May 1998
Member	Phi Beta Kappa	May 1998

RECENT LECTURES (2015-present):

Rice University, Houston, TX	Sept 2019
Syracuse University, Syracuse, NY	Sept 2019
GeoPRISMS Synthesis Workshop	Feb 2019
Northern Arizona University, Flagstaff, AZ	August 2018
CIDER workshop on Subduction zones	July 2017
Carnegie Institute for Science, Dept of Terrestrial Magnetism	June 2017
Lamont Doherty Earth Observatory, Palisades, NY	May 2017
Princeton University, Princeton, NJ	April 2017
University of California, Los Angeles, CA	March 2017
Rice University, Continental Margins Symposium, Houston, TX	Feb. 2017
LDEO Plate Tectonics 50 th Anniversary Celebration	May 2016
SEISMIX meeting, Aviemore, Scotland	May 2016
Southern Methodist University, Dallas, TX	Apr. 2016
Ocean Bottom Seismology Symposium, Vancouver, WA	Oct. 2015
University of Texas Institute for Geophysics, Austin, TX	Sept. 2015