

Robert George Hatfield

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CURRENT POSITION	Assistant Professor <i>Department of Geological Sciences, University of Florida, USA.</i>	2019 – present
PROFESSIONAL PREPARATION	Research Associate <i>College of Earth, Ocean, & Atmospheric Science, Oregon State University, USA.</i>	2018 – 2019
	Visiting Scholar <i>Department of Earth System Science, Stanford University, USA.</i>	2018 – 2019
	Assistant Curator; Digital Curation Specialist. <i>Marine Geology Repository, CEOAS, Oregon State University, USA.</i>	2013 – 2018
	Research Associate (Post-Doc) <i>College of Earth, Ocean, & Atmospheric Science, Oregon State University, USA.</i>	2010 – 2018
	Post-Doctoral Research Fellow <i>Dept. of Earth and Environmental Science, University of Windsor, Canada.</i>	2008 – 2009
EDUCATION	Ph.D. Physical Geography <i>Lancaster Environment Center, University of Lancaster, UK.</i>	2008
	B.Sc. (Hons.) Geography – 1 st Class <i>University of Lancaster, UK.</i>	2003

RESEARCH INTERESTS To accurately reconstruct the history of the Earth requires an understanding of how change is encoded in natural archives and access to a clock that recorded when those changes occurred. My research interests are built around addressing these fundamental questions through applications of environmental magnetism and their relationship to other physical property tools (e.g. sediment texture, density, XRF etc) of sedimentary records (to address the how) and paleomagnetism and other chronometers (to address the when) to bring a holistic approach to Earth System Science. I have applied these tools in the high-latitudes of Greenland and the North Atlantic, in the tropical seas of the Caribbean and the tropical lakes of Peru, and in the mid-latitudes of Chile, the UK, and North America. At the heart of my research is a drive to further geomagnetic and paleomagnetic understanding, better understand how mineral magnetic properties behave in the environment, and better characterize change in the Earth as a system and attendant impacts on natural environments.

PUBLICATIONS *In Review/Revision/Published*
[# of citations] **Hatfield, R.G.** (in press) Magnetic Properties and Susceptibility, In Elias, S.A. (ed.) Encyclopedia of Quaternary Science, Elsevier.
updated Sept '24 **Hatfield R.G.**, Reilly B.T., Klotsko S., Jennings A.E., Mix A.C., Stoner J.S., Walczak M.H., Donnenfield J.T., Fritz C., Gregory E., Hough A.R., Kelleher R., Monito L., Olarte P.M., Stelling K., Siragusa M.D., and Vonnahme T.R. (2023) Cruise Report AR76-01 (AR2307) The Baffin Bay Deglacial Experiment (BADEX). 592pp. <https://zenodo.org/doi/10.5281/zenodo.10278216>
source: Google Schiferl, J., Kingston, M., Åkesson, C.M., Valencia, B.G., Rozas-Davila, A., McGee, D., Woods, A., Chen, C.Y., **Hatfield, R.G.**, Rodbell, D.T., Abbott, M.B., Bush, M.B. (2023) A neotropical perspective on the uniqueness of the Holocene among interglacials, *Nature Communications*.
total #: 44 [3]
citations: 1427 Smith A.J., Ito E., Burls N., Clarke L., Donders T., **Hatfield R.G.**, Kuehn S., Koutsodendris A., Lowenstein T., McGee D., Molnar P., Prokopenko A., Snell K., Valero Garcés B., Werne J., Zeeden CAdam D., Anderson S., Bhattacharya T., Brierley C., Bright J., Brown E., Cantner K., Fawcett P., Feakins S., Ferland T., Fritz S., Fu M., Giesecke T., González-Sampéris P., Guillerme E., Halisch M., Herbert T., Ibarra D., Janick J., Jiménez-Moreno G., Layzell A., Magnani M.,

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- Marazuela Calvo M., Meijers M., Mischke S., Mulch A., Nomade S., Noren A., Owen R., Pini R., Sachs J., Sample J., Starratt S., Stefanova V., Thomas C., Tripaati A., Valero-Garcés B.L., Waldmann N., Wang J., White S., Williams J., Wonik T., and Zhao Y.. (2023) Workshop report: PlioWest – drilling Pliocene lakes in western North America. *Scientific Drilling*. 32, 61-72.
- Obrist-Farner J., Eckert A., Douglas P. M. J., Perez L., Correa-Metrio A., Konecky B.L., Bauersachs T., Zimmerman S., Scheidt S., Brenner M., Kutterolf S., Maurer J., Flores O., Burberry C.M., Noren A., Myrbo A., Lachniet M., Wattrus N., Gibson D., Aguilar A., Aguirre M., Anyanna L.V., Arrieta C., Ask M., Barillas R., Berke M., Bernal J.P., Bird B., Bohnhoff M., Brown E., Buecker M., Cohen A., Curtis J., Duarte E., Echeverría-Galindo P., Escobar J., Fernandez A., Fernandez M., Gao S., Gordillo C., Gruetzner C., Harms U., **Hatfield R.G.**, Jaramillo C., Krastel S., Kuehn S., Lodolo M., Lopez S., Luna J., Marchegiano M., Marquez J., Martinez-Garzon P., McEnaney T., Moernaut J., Moguel B., Moran S., Moser S., Niemi T., Oboh-Ikuenobe F., Oliva B., Perez C., Perez-Sabino F., Price B., Reyes F., Romero C., Rosenfeld J., Ruiz-Carrascal D., Smeraglia L., Solis S., Stangeland Q., Steinman B., Vinnepan J., Waters M., Yani R., and Zeeden C. (2023) Planning for the Lake Izabal Basin Research Endeavor (LIBRE) continental scientific drilling project in eastern Guatemala. *Scientific Drilling*. 32, 85-100. []
- Reilly B.T., Stoner J.S., Ólafsdóttir S., Jennings A., Hatfield R.G., Kristjánsdóttir G.B., and Geirsdóttir A. (2023) The Amplitude and Timescales of 0-15 ka Paleomagnetic Secular Variation in the Northern North Atlantic. *Journal of Geophysical Research: Solid Earth*. e2023JB026891: <https://doi.org/10.1029/2023JB026891> [4]
- Rodbell, D.T., **Hatfield, R.G.**, Abbott, M.B., Chen, C.Y., Woods, A., Stoner, J.S., McGee, D., Tapia, P.M., Bush, M., Valero-Garcés, B.L., Lehmann, S.B., Mark, S.Z., Weidhaas, N.C., Hillman, A.L., Larsen, D.J., Delgado, G., Katz, S.A., Solada, K.E., Morey, A.E., Finkenbinder, M., Valencia, B., Rozas-Davila, A., Wattrus, N., Colman, S.M., Bustamante, M.G., Kück, J., and Pierdominici, S. (2022) 700,000 years of Tropical Andean Glaciation, *Nature*. [21]
- Li, C., Clementi, V.J., Bova, S.C., Rosenthal, Y., Childress, L.B., Wright, J.D., Jian, Z., and Expedition 379T Scientists (including **Hatfield, R.G.**) The sediment green-blue color ratio as a proxy for biogenic silica productivity along 1 the Chilean Margin. *Geochemistry, Geophysics, Geosystems*. [6]
- Clementi, V.J., Rosenthal, Y., Bova, S.C., Thomas, E.K., Wright, J.D., Mortlock, R.A., Cowling, O.C., Godfrey, L.V., Childress, L.B., and Expedition 379T Scientists (including **Hatfield, R.G.**) Deep submarine infiltration of altered geothermal groundwater on the south Chilean Margin. *Communications Earth & Environment*, 3, 218 [1]
- Hatfield, R.G.**, Stoner, J.S., and Fraass, A.J. (2021) Relative Paleointensity Record of Integrated Ocean Drilling Program Site U1396 in the Caribbean Sea: Geomagnetic and Chronostratigraphic Observations in the Pliocene. *Geochemistry, Geophysics, Geosystems*, 22, GC009677. [5]
- Carlson, A.E., Beard, B.L., **Hatfield, R.G.**, and Laffin, M. (2021) Absence of West Antarctic-sourced silt at ODP Site 1096 in the Bellingshausen Sea during the last interglaciation: Support for West Antarctic ice-sheet deglaciation. *Quaternary Science Reviews*, 261, 106939. [8]
- Woods, A., Rodbell, D.T., Abbott, M.B., **Hatfield, R.G.**, Chen, C.Y., Lehmann, S.B., McGee, D., Weidhaas, N.C., Tapia, P.M., Valero-Garcés, B.L., Bush, M.B., and Stoner, J.S. (2020) Andean drought and glacial retreat tied to Greenland warming during the last glacial period. *Nature Communications* 11, 5135. [19]
- Chen, C.Y., McGee, D., Woods, A., Perez, L., **Hatfield, R.G.**, Edwards, R.L., Cheng, H., Valero-Garcés, B.L., Lehmann, S.B., Stoner, J.S., Schwalb, A., Tal, I., Seltzer, G.O., Tapia, P.M., Abott, M.B., and Rodbell, D.T. (2020) U-Th dating of lake sediments: Lessons from the 700 ka sediment record of Lake Junín, Peru. *Quaternary Science Reviews*, 244, 106422. [18]
- Hatfield, R.G.**, Stoner, J.S., Solada, K.E., Morey, A.E., Woods, A., Chen, C.Y., McGee, D., Abbott, M.B., and Rodbell, D.T. (2020) Paleomagnetic constraint of the Brunhes age sedimentary record from Lake Junin, Peru. *Frontiers*, 8, 147. [15]
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- Blake-Mizen, K.R., **Hatfield, R.G.**, Stoner, J.S., Carlson, A.E., Walczak, M.H., Xuan, C., Lawrence, K., Channell, J.E.T., and Bailey, I. (2019) Southern Greenland glaciation during the late Pliocene onset of Northern Hemisphere glaciation inferred from IODP Site U1307 (Eirik Drift). *Quaternary Science Reviews*, 209, 40-51. [26]
- Hatfield, R.G.**, Wheeler, B.H., Reilly, B., Stoner, J.S., and Housen, B. (2019) Particle size specific magnetic properties across the Norwegian-Greenland Seas: Insights into the influence of source and texture on bulk magnetic records. *Geochemistry, Geophysics, Geosystems*. 20 [14]
- Reilly, B.T., Stoner, J.S., **Hatfield, R.G.**, Abbott, M.B., Marchetti, D., Larsen, D., Finkenbinder, M., Hillman, A., Kuehn, S., and Heil, C. (2018) Regionally Consistent Western North America Paleomagnetic Directions from 15-35 ka: Assessing Chronology and Uncertainty with Paleosecular Variation (PSV) Stratigraphy. *Quaternary Science Reviews*, 201, 186-205. [12]
- Hatfield, R.G.**, Stoner, J.S., Reilly, B.Y., Tepley III, F.J., Wheeler, B.H., & Housen, B. (2017) Grain size dependent magnetic discrimination of Iceland and south Greenland terrestrial sediments in the northern North Atlantic sediment record. *Earth and Planetary Science Letters*, 474, 474-489 [24]
- Fraass, A.J., Wall-Palmer, D., Leckie, M., **Hatfield, R.G.**, et al., (2017) A revised Plio-Pleistocene age model and paleoceanography of the northeastern Caribbean Sea: IODP Site U1396 off Montserrat, Lesser Antilles. *Stratigraphy*, 13, 183-203. [8]
- Carlson, A.E., Kilmer, Z., Ziegler, L.B., Stoner, J.S., Wiles, G.C., Starr, K., Walczak, M.H., Colgan, W., Reyes, A.V., Leydet, D.J., & **Hatfield, R.G.** (2017) Retreat of the Columbia Glacier, Alaska. Millennial context. *Geology*, 45, G38479.1 [13]
- Hatfield, R.G.**, Reyes, A.V., Stoner, J.S., Carlson, A.E., Beard, B.L., Winsor, K., & Welke, B. (2016) Interglacial responses of the south Greenland ice sheet over the last 430,000 years determined using particle-size specific magnetic and isotopic tracers. *Earth and Planetary Science Letters*, 454, 225-236. [46]
- Coussens, M. et al., (2016) The relationship between eruptive activity, flank collapse, and sea level at volcanic islands: A long-term (>1 Ma) record offshore Montserrat, Lesser Antilles, *Geochemistry, Geophysics, Geosystems*. 17 [38]
- Coussens, M. et al., (2016) Synthesis: Stratigraphy and age control for IODP Sites U1394, U1395, and U1396 offshore Montserrat in the Lesser Antilles. In Le Friant, A., Ishizuka, O., Stroncik, N.A., and the Expedition 340 Scientists, Proc. IODP, 303/306: College Station, TX (Integrated Ocean Drilling Program Management International, Inc.) [9]
- McCanta, M., **Hatfield, R.G.**, Thomson, B., Hook, S., & Fisher, E (2015) Identifying Cryptotephra Units Using Correlated Rapid, Non-Destructive Methods: VSWIR Spectroscopy, X-Ray Fluorescence, and Magnetic Susceptibility. *Geochemistry, Geophysics, Geosystems*. 16, 4029-4056 [22]
- Hornbach, M. et al. (2015) High pore pressure in Lesser Antilles submarine slide deposits inferred from seismic velocities and rock physics models. *Journal of Geophysical Research: Solid Earth*, 120, 7986-8011 [23]
- Hatfield, R.G.** (2015) Data Report: Stratigraphic correlation of Site U1396 and creation of a composite depth scale and splice. In Le Friant, A., Ishizuka, O., Stroncik, N.A., and the
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- Hatfield, R.G.** (2014) Using particle size-specific measurements to understand bulk magnetic properties. *Minerals*, 4, 758-787. [52]
- Reyes, A.V., A.E. Carlson, B. Beard, **R.G. Hatfield**, J.S. Stoner, K. Winsor, B. Welke, & D.J. Ullman (2014) South Greenland ice-sheet collapse during Marine Isotope Stage 11, *Nature*, 510, 525-528. [123]
- Wall-Palmer *et al.* (2014). Late Pleistocene stratigraphy of IODP Site U1396 and compiled chronology offshore of south and south west Montserrat, Lesser Antilles. *Geochemistry, Geophysics, Geosystems*, 15, 3000-3020. [29]
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- Hatfield, R.G.** & Stoner J.S. (2013) Magnetic Properties and Susceptibility, In Elias, S.A. (ed.) *Encyclopedia of Quaternary Science*, Elsevier. [24]
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- Winsor, K., Carlson, A.E., Klinkhammer, G.P., Stoner, J.S. & **Hatfield R.G.** (2012) Evolution of the northeast Labrador Sea during the last interglaciation, *Geochemistry, Geophysics, Geosystems*, 13, Q11006 [43]
- Colville, E.J., Carlson, A.E., Beard, B.L., **Hatfield, R.G.**, Stoner, J.S., Reyes, A.V. & Ullman, D.J. (2011) Sr-Nd-Pb Isotope Evidence for Ice-Sheet Presence on Southern Greenland During the Last Interglacial, *Science*, 333, 620-623 [157]
- Hatfield, R.G.**, Cioppa, M.T. & Trenhaile, A.S. (2010) Sediment sorting and beach erosion along a coastal foreland: Magnetic measurements in Point Pelee National Park, Ontario, Canada, *Sedimentary Geology*, 231, 63-73 [48]
- Hatfield, R.G.** & Maher, B.A. (2009) Fingerprinting upland sediment sources: particle size-specific magnetic linkages between soils, lake sediments and suspended sediments, *Earth Surface Processes and Landforms*, 34 (10), 1359-1373 [141]
- Hatfield, R.G.** & Maher, B.A. (2009) Holocene sediment dynamics in an upland temperate lake catchment: climatic and land-use impacts in the English Lake District, *The Holocene*, 19 (3), 427-438 [29]
- Hatfield, R.G.**, Maher, B.A., Pates, J.M. & Barker, P.A. (2008) Sediment dynamics in an upland catchment: changing sediment sources, rates and deposition, *Journal of Paleolimnology*, 40 (4), 1143-1158 [37]
- Hatfield, R.G.** & Maher, B.A. (2008) Suspended sediment characterisation and tracing using a magnetic fingerprinting technique: Bassenthwaite Lake, Cumbria, UK. *The Holocene*, 18 (1), 105-115 [69]
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PROPOSALS & FUNDING	Total Funding Awards as PI or Co-PI: \$3,656,564	
	\$10,100 – United States Science Support Program, Principal Investigator: “Participation of Lindsey Rose Monito in IODP Expedition 403”	2024
	\$2,730,114 – National Science Foundation, OCE Marine Geology and Geophysics Principal Investigator: “Collaborative Research: Spatiotemporal observations of the demise of an ice sheet: Paleo perspectives from Baffin Bay, West Greenland” [UF Amt. \$356,891]	2022 - 2025
	\$71,610 – UF Research Opportunity Seed Fund, Principal Investigator. <i>Something in the Air: Particulate Matter Biomonitoring using the Magnetic Properties of Spanish Moss (Tillandsia usneoides).</i>	2022 – 2024
	IODP Drilling Proposal 962 Full – International Ocean Discovery Program (IODP) Lead Proponent: “Assessing the history of the south Greenland Ice Sheet and its interaction with ocean circulation, climate, and sea level”	At JRFB for scheduling
	\$197,897 – National Science Foundation, OCE Marine Geology and Geophysics Principal Investigator [OCE-1737333]: “Developing paleomagnetic chronologies of, and paleogeomagnetic understanding from, IODP sites U1486 and U1489 in the western Pacific warm pool.”	2017 – 2020
	\$14,998 – Post Expedition Award, United States Science Support Program Principal Investigator: “Rock magnetic characterization of sediments recovered during IODP Expedition 363 and paleomagnetic characterization of the Gauss/Matuyama Boundary at IODP Site U1486.”	2017 – 2018
	\$359,424 – National Science Foundation, OCE-Marine Geology and Geophysics Co-Principal Investigator [OCE-1636381]: “Developing new magnetic tracers of ice sheet instability and ocean circulation in the northern North Atlantic”	2016 – 2019
	\$98,304 – National Science Foundation, EAR-Petrology and Geochemistry Principal Investigator [EAR-1347912]: “Collaborative Research: Expanding the Tephrochronologic Record of the Northern Lesser Antilles Arc: Rapid Identification of Cryptotephra Using Multiple Methods.”	2014 – 2018
	\$4,000 – Institute of Rock Magnetism Visiting Fellowship Principal Investigator: “Investigating the grain size dependence of magnetic properties from Greenland and Iceland as sediment sources to the Northern North Atlantic.”	2013
	\$189,727 – National Science Foundation, OCE-Marine Geology and Geophysics Principal Investigator [OCE-1260671]: “Paleomagnetic Assisted Chronology of IODP Sites U1395 and U1396.”	2013 – 2016
	\$15,000 – Post Expedition Award, United States Science Support Program Principal Investigator: “Creation of a composite spliced record for IODP Site U1395 and U1396 and initial paleomagnetic and environmental magnetic measurements.”	2012 – 2013
	\$37,000 (CAD\$) – Commonwealth Post-Doctoral Fellowship. Govt. of Canada Recipient of a proposal driven nationally competitive Post-Doctoral Fellowship: “Sediment tracing in a coastal foreland”	2008 – 2009

FORMAL TEACHING & ADVISING ROLES	Courses Taught	
	GLY6932 (UF) Demystifying the NSF Proposal Writing Process	2023
	GLY6519 (UF) Stratigraphy and Timescales	2020, 2022
	GLY4155C (UF) Geology of Florida	2021 - 2024
	GLY6932 (UF) Paleomagnetism, Geomagnetism, Environmental Magnetism	2021, 2023

Guest Lectures:

ESS 242 (Stanford) Antarctic Marine Geology and Geophysics	2018
<i>Topic: Sedimentary margins and future IODP drilling around Greenland</i>	
GPH 642 (OSU) Earth Magnetism	2017/2015/2013
<i>Topic: Environmental magnetism techniques and applications</i>	
OC 460 (OSU) Geological Oceanography	2016/2014
<i>Discussion Topic/Presentations: Results of ODP/IODP Drilling</i>	
OC 562 (OSU) Sedimentary Processes in the Ocean Basins	2013
<i>Topic: Sediment transport in ocean basins; included a lab at the OSU-MGR</i>	

Academic Tutor: Geographical skills for freshman undergraduate students. 2005 - 2008
Designed and taught a syllabus around teaching scientific theory/skills in a small class environment (6-8 students). Additional responsibilities included marking assignments set by faculty, providing one-on-one feedback to students, and mentoring their transition from high-school students to collegiate scholars.

Teaching Assistant:

Field Course: The Geomorphology of Northern Spain	2006 - 2007
<i>Week long residential field trip studying karst and glacial geomorphology</i>	
Field Course: Glacial Geomorphology of the Lake District, England	2006 - 2008
<i>Day long field trips mapping glacial features and discussing paleogeology</i>	

Students Advised as Chair:

Paloma Olarte (Ph.D.) (<i>co-advisor</i>)	Exp. 2025
Lindsey Monito (Ph.D.)	Exp. 2026
Madeline Brosky (Ph.D.)	Exp. 2027
James Kowalski (M.S.)	2022
Benjamin Freiberg (M.S.) (<i>co-advisor</i>)	2020

Student Committees (UF Geological Sciences unless stated)

Copeland Cromwell (Ph.D.)	2024 -
JoAnn Donald (M.S.) Soil and Water Science, UF	2023 -
Samuel Kwafko (Ph.D.)	2023 -
Tatiana Salinas (Ph.D.)	2022 -
Rudy Molinek (Ph.D.) Geology, University of Wisconsin Madison	2021 -
Hee Jun Cheong (Ph.D.)	2020 -
Nicole Greco (Ph.D.)	2020 - 2024
Katie Bristol (Ph.D.)	2020 -
Rachel Nutter (M.S.)	2020
Matthew Conlin (Ph.D.)	2019 - 2020

Students Mentored:

Nicole Lambert (UF Geology UG)	2022 -
James Prokuski (UF Geology UG)	2024
Joy Guikema (UF Biology UG)	2022 - 2024
Ben Harnsberger (UF Chemistry UG)	2022 - 2024
Timothy Sterling (UF Environmental Science UG)	2022 - 2023
Stephany Gore (UF Geology UG)	2022 - 2023
Keziah Blake-Mizen (University of Exeter Ph.D. Student)	2015 - 2019
Katharine Solada (OSU M.Sc.; now Instructor at Linn Benton Community College)	2017 - 2019
Benjamin Wheeler (OSU UG; now MS Student at Uni. N. Arizona)	2016 - 2017
Jordan Morris (OSU REU)	2016

	Elizabeth Patterson (OSU REU; now MS Student at University of Arizona)	2016
	Tullia Upton (OSU M.Sc. student; Western Geotechnical Consultants, BC)	2014 - 2016
	Jason Dorfman (OSU M.Sc. student; David Evans and Assoc., Vancouver, WA)	2010 - 2013
	Sarah Strano (OSU Ph.D. student; TUNE software engineer, Seattle, WA)	2010 - 2013
	David Konyndyk (OSU Increasing Diversity in Earth Sci. UG; now at Boeing)	2012 - 2013
	Eric Gallaway (UG & M.Sc. student at University of Windsor)	2010 - 2011
AWARDS & RECOGNITION	Jack Dymond Excellence in Mentoring Award. Annual award open to 100+ CEOAS faculty. Awarded to a faculty member that goes above and beyond in mentoring graduate and/or undergraduate students other than their own advisees.	2017
	Best Oral Presentation Soils System Science, European Geophysical Union	2008
SERVICE & EXPERIENCE	Seagoing and Field Experience	
	Chief Scientist, The Baffin Bay Deglacial Experiment <i>Baffin Bay Sediment Coring (Hatfield Chief Scientist)</i>	2023
	Participant, UNOLS PI Training Cruise <i>Oregon Margin Sediment Coring (Goldfinger/Walczak Chief Scientists)</i>	2022
	Shipboard Paleomagnetist, JR100 IODP Expedition 379T <i>Paleoceanography of the Chilean Margin (Bova/Rosenthal Chief Scientists)</i>	2019
	Shipboard Paleomagnetist, IODP Expedition 363 <i>Western Pacific Warm Pool (Rosenthal/Holbourn)</i>	2016
	Stratigraphic Correlator, ICDP Drilling of Lake Junín, Peru <i>A Quaternary record of climate change for the tropical Andes (Abbott/Rodbell)</i>	2015
	Coring Participant and Physical Properties Specialist <i>Fish Lake, Utah. Western US lakes coring project (Abbott/Marchetti)</i>	2014
	Coring Participant and Physical Properties Specialist <i>Fish Lake, Oregon. Western US lakes coring project (Stoner/Abbott)</i>	2013
	Shipboard Paleomagnetist, IODP Expedition 340 <i>Lesser Antilles Volcanism and Landslides (Le Friant/Osamu)</i>	2012
	Coring Participant, RV Wecoma <i>Oregon Margin Sedimentation (Mix)</i>	2011
	Field Investigator, Greenland terrestrial sediment characterization <i>Collection of glacio-fluvial sediment from Iceland/Greenland (Stoner/Carlson)</i>	2011/2010
	Workshops Invited/Attended	
	MagIC (<i>bi-annual</i>) participant, San Diego, CA.	Since 2011
	Inst. of Rock Magnetism, Santa Fe Meeting (<i>bi-annual</i>), participant & convenor.	Since 2012
	Gulf of Papua IODP Drilling Workshop participant, Phoenix, AZ.	2023
	UNOLS Principal Investigator Training participant, Corvallis/Newport, OR.	2022
	ICDP Drilling Workshop Western US Drilling (<i>via Zoom</i>)	2021
	MagellanPlus Workshop participant. Greenland Ice sheet evolution, Copenhagen	2018
	EarthRates Workshop invitee. Western US Pliocene Lakes, Minneapolis, MN.	2018
	NSF White Paper participant. How Stable is the Greenland Icesheet, Buffalo, NY	2017
	JOIDES Resolution Assessment Workshop (JRAW) participant, Denver, CO	2017
	Curators of Marine, Lacustrine, and Geological Samples Meeting. Corvallis, OR.	2017
	LinkedEarth Workshop participant. Paleoclimate Data Standards, Austin, TX	2017
iSamples EarthCube Workshop participant. Digital sample curation, Austin, TX	2016	
Continental Scientific Drilling and Coring Community Meeting. Minneapolis, MN.	2015	
PAGES Workshop Participant. Assessing the history of the Greenland Ice Sheet through ocean drilling. Corvallis, OR	2011	

Select Community Service/Activities

Can You Dig It! Public facing outreach.	2021 - present
Session Convener AGU Fall Meeting	2015 - present
Editorial Board Member IODP Expedition 363 Proceedings Volume	2016
National Ocean Science Bowl Volunteer	2016
OSPA Judge AGU Fall Meeting	2014
Editorial Board Member IODP Expedition 340 Proceedings Volume	2012
Reviewer Proposals: <i>Marine Geology and Geophysics, Geophysics, EarthCube (all NSF), Petroleum Research Fund (American Chemical Society)</i>	2020 - present
Reviewer Journals: <i>Scientific Reports; Geology; Geophysical Research Letters; Geochemistry, Geophysics, Geosystems; Palaeogeography, Palaeoclimatology, Palaeoecology; The Holocene; Hydrology and Earth System Science; Journal of Quaternary Science; Quaternary Science Reviews; Community Science; Global Planetary Change; Frontiers in Earth Science; Journal of Sedimentary Research; Progress in Earth and Planetary Science.</i>	2009 - present

**PRESENTATIONS
& CONFERENCE
ABSTRACTS***Invited Talks:*

- Hatfield R.G.** The Magnetic Fraction of Marine Sediments. Invited Seminar Coastal Carolina University, Conway, SC. April 5th, 2024.
- Hatfield R.G.** and Monito L.R. Paleomagnetism & Paleo- Questions. Presentation to the Department of Geological Sciences Board of Advisors. Gainesville, FL. Oct 27th, 2023.
- Hatfield R.G.**, Monito L.R., and Olarte P.M. The Baffin Bay Deglacial Experiment: Five Weeks at Sea in the High Arctic. Presentation to the Department of Geological Sciences Brown Bag Lunchtime Seminar. Gainesville, FL. Nov 3rd, 2023.
- Hatfield R.G.** A summary of BADEX Cruise AR2307. Presentation to the BADEX Sampling Party. Corvallis, OR. Jan 29th, 2024
- Hatfield R.G.** Summary of the Paleomagnetic Results from JR100 Expedition 379T; four weeks at sea hunting the Laschamp Excursion. Marine Science Paleoceanography Group, Rutgers University. 1pp. 2020
- Hatfield R.G.** (2020). A long-term view of the Greenland Ice sheet; inception, cycles of advance-retreat, and the last deglaciation. Graduate Fellows summer seminar series, University of Florida Water Institute. 1pp. 2020
- Hatfield, R.G.**, Stoner, J.S. (2019) *“Relative Paleointensity (RPI) observations from IODP Expeditions 340 and 363; towards a new Pliocene tuning target”* Geological Society of America, 26th September 2019.
- Hatfield, R.G.**, Stoner, J.S., Reyes, A.V., Carlson, A.E., Beard, B.L., and Reilly, B.T. (2018) *“The Greenland Ice sheet; a late-Pleistocene story from the ocean floor”*. Stanford Radioglaciology Research Group, 17th October 2018.
- Hatfield, R.G.**, Stoner, J.S., Reyes, A.V., Carlson, A.E., and Beard, B.L. (2015) *“Using particle size specific magnetic properties to understand North Atlantic sediment records and the history of the Greenland Ice Sheet”*. Geology and Geophysics Seminar Series, CEOAS, Oregon State University, 12th March 2015
- Hatfield, R.G.** (2014) *“What is environmental magnetism and how can we use it in earth science.”* Summer Research Experience for Undergraduate Student Symposium, 29th July 2014
- Hatfield, R.G.**, Stoner, J.S., Carlson A.E., Reyes, A.V., and Housen, B *“Source as a controlling factor on the quality and interpretation of sediment magnetic records from the northern North Atlantic”*. Invited Presentation to the American Geophysical Union, San Francisco, 5th December 2012.
- Hatfield, R.G.** and Maher, B.A. *“Sediment dynamics in an upland temperate catchment: magnetic identification of changing sediment sources and rates.”* Sedimentology Seminar Series, University of Liverpool, 11th April 2008

*First Author (or *student first author) Contributed Presentations:*

- *Guikema J., *Gore S., *Sterling, T., *Harnsberger B., McDaniel S., and **Hatfield R.G.** Characterizing the Air You Breathe: Particulate Matter Source Apportionment in Spanish Moss using Magnetic Measurements. URAP Undergraduate Research Symposium. University of Florida Biology Dept. 2023.
- Hatfield R.G.**, Reilly B.T., Klotsko S., Jennings A.E., Mix A.C., Stoner J.S., Walczak M.H., Donnenfield J.T., Fritz C., Gregory E., Hough A.R., Kelleher R., Monito L., Olarte P.M., Stelling K., Siragusa M.D., and Vonnahme T.R. The Baffin Bay Deglacial Experiment (BADEX): Spatiotemporal Observations of the Demise of the Last Glacial Maximum Greenland Ice Sheet. AGU Fall Meeting. San Francisco, 14th December 2023.
- Hatfield R.G.**, Stoner J.S., Freiberg B., Kowalski J., and Reilly B.T. What Are Bulk Sediment Magnetic Records? AGU Fall Meeting. Abstract #GP32A-0341: 1pp. 2022.
- Hatfield R.G.**, Klotsko S., Walczak M.H., Reilly B.T., Jennings A.J., Stoner J.S., and Mix A.C.. The Baffin Bay Deglacial Experiment (BAD-Ex): Spatiotemporal Observations of the Last Demise of the Greenland Ice Sheet. AGU Fall Meeting. Abstract #C35B-0878: 1pp. 2021.
- *Kowalski J., **Hatfield R.G.**, Stoner J.S., and Freiberg B. A Magnetic Signature of Heinrich Events from a Particle Size Perspective at IODP Sites U1302/03: Proximal observations on sediment transfer from the Laurentide Ice Sheet across the Late Pleistocene. AGU Fall Meeting. Abstract #GP33A-04: 1pp. 2021.
- Hatfield R.G.**, Stoner J.S., and Fraass A.J. Pliocene Record of Relative Paleointensity from IODP Site U1396 in the Caribbean Sea: Chronostratigraphic and Paleogeomagnetic Opportunities. AGU Fall Meeting. Abstract #GP003-06: 1pp. 2020
- Hatfield R.G.**, Stoner J.S., and Dang H. Defining the Pliocene record of Relative Paleointensity (RPI); observations and opportunities from IODP Site U1489. IODP Exp. 363 Post Cruise Meeting. 1pp. 2019
- Hatfield R.G.**, Stoner J.S., Bova S.C.(p), and Rosenthal Y. The Relative Paleointensity (RPI) record of U1486: high resolution observations from a low-latitude perspective. IODP Exp. 363 Post Cruise Meeting. 1pp. 2019.
- Hatfield R.G.**, Wheeler B.H., Stoner J.S., Reilly B.T., and Freiberg B. Particle size dependence of magnetic properties: A case study from the Northern North Atlantic. AGU Fall Meeting. Abstract #GP21A-02: 1pp. 2019.
- *Freiberg B., **Hatfield R.G.**, Stoner J.S., Housen B.A., and Reilly B.T. Identifying the Poisoned Chalice: Using Particle-Size Specific Magnetic Properties to Deconvolve Source from Transport on the Eirik Ridge, Labrador Sea (IODP Sites U1305 and U1306). AGU Fall Meeting. Abstract #PP11D-1427: 1pp. 2019
- Hatfield, R.G.**, Stoner, J.S., Solada, K., Reilly, B.T., Abbott, M.B., Rodbell, D.T., Woods, A., McGee, D., Chen, C.Y. Assessing Orbital Forcing in the Tropical Andes: Developing a 700 kyr paleointensity assisted chronology for ICDP drilling in Lake Junín, Peru. Oral Presentation to AGU Fall Meeting, Washington D.C., 12th December 2018.
- *Freiberg, B., **Hatfield, R.G.**, Stoner, J.S., Reilly, B.T., and Solada, K. The Particle Size Specific Magnetic Properties of Eirik Ridge Sediments over the Last 150 ka from IODP Expedition 303 U1305 and U1306: Disentangling the Influences of the Greenland Ice Sheet and Deep Western Boundary Current. Oral Presentation to AGU Fall Meeting, Washington D.C., 13th December 2018.
- Hatfield, R.G.**, Stoner, J.S., Freiberg, B., Reilly, B.T., Reyes, A.V., Carlson, A.E., and Beard, B.L., Eirik Ridge marine sediments: A Plio-Pleistocene archive of the past behavior of the south Greenland Ice-Sheet (sGIS). Presentation at the Magellan Plus workshop on Greenland Ice Sheet Evolution, 11th September, 2018.
- Hatfield, R.G.**, Stoner, J.S., Kumagai, Y., & Expedition 363 Scientists. A Two Million Year Equatorial Paleogeomagnetic and Relative Paleointensity Record from IODP Site U1489 in the West

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- Pacific Warm Pool: Towards an Improved Tuning Target. Presentation to AGU Fall Meeting, New Orleans, 14th December 2017.
- *Blake-Mizen, K.R., **Hatfield, R.G.**, Carlson, A.E., Walczak, M.H., Stoner, J.S., Xuan, C., Lawrence, K.T., & Bailey, I. Reconstructing Southern Greenland Ice Sheet History During the Plio-Pleistocene Intensification of Northern Hemisphere Glaciation: Insights from IODP Site U1307. Presentation to AGU Fall Meeting, New Orleans, 13th December 2017.
- *Kumagai, Y., **Hatfield, R.G.**, Nakamura, N., Yamazaki, T., & Expedition 363 Scientists. Initial report for magnetostratigraphy of IODP Site U1490. Presentation to AGU Fall Meeting, New Orleans, 14th December 2017.
- Hatfield, R.G.**, Stoner, J.S., Reyes, A.V., Carlson, A.E., Walczak, M.H., and Beard, B.L. Reconstructing the response of the south Greenland Icesheet to climate using marine sediments. Presentation to an NSF sponsored workshop "How stable is the Greenland Icesheet", Buffalo, NY, 11th September 2017
- *Wheeler, B.H., **Hatfield, R.G.**, and Stoner, J.S. Characterizing the magnetic variability of the Nordic Basaltic Province: Particle-size specific magnetic insights from 72 cores collected before the advent of the field of environmental magnetism. International Conference on Rock Magnetism, Utrecht, Netherlands, 12th July, 2017.
- Hatfield, R.G.**, Stoner, J.S., Reyes, A.V., Carlson, A.E., Beard, B.L., Winsor, K., Reilly, B.T., Welke, B., Housen, B.A., & Wheeler, B.H. Linking Particle Size Specific Measurements of Terrestrial and Marine Sediments to Understand the Deglacial Behavior of the Southern Greenland Icesheet since MIS12. Presentation to AGU Fall Meeting, San Francisco, 12th December 2016.
- Hatfield, R.G.**, Stoner, J.S., & Tepley III, F. Discrimination of Terrestrial Source Materials to the Northern North Atlantic Using Particle Size Specific Magnetic Measurements and Electron Microscopy. Presentation to AGU Fall Meeting, San Francisco, 18th December 2015.
- Hatfield, R.G.** and Stoner, J.S. Paleo- and Environmental Magnetic Record of U1396: a 4.5Myr record from the Caribbean Sea. Presentation to AGU Fall Meeting, San Francisco, 16th December 2014.
- Hatfield, R.G.**, Stoner, J.S., and Jennings, A.E. "Paleo- and environmental magnetic record of Holocene marine sediments from West Greenland" Presentation at the MagIC Workshop, Scripps Institution of Oceanography, La Jolla, 12th May, 2014.
- Hatfield, R.G.**, Stoner, J.S., and Jennings, A.E. "Paleo- and environmental magnetic record of Holocene marine sediments from West Greenland" Presentation to AGU Fall Meeting, San Francisco, 12th December 2013.
- Hatfield, R.G.**, Stoner, J.S., Carlson A.E., and Reyes, A.V. "*Fingerprints of Greenlandic and Icelandic Sediment Sources to the Eirik Drift through Five Glacial Terminations and Interglacials*" Abstract PP23B-2056. Presentation to AGU Fall Meeting, San Francisco, 4th December 2012.
- Hatfield, R. G.**, Stoner, J. S., Carlson, A. E., and Reyes, A.V. "*Fingerprints of Greenlandic and Icelandic Sediment Sources to the North Atlantic through Five Glacial Terminations and Interglacials*" Abstract PP33A-1911. Presentation to AGU Fall Meeting, San Francisco, 7th December 2011.
- Hatfield, R. G.**, Stoner, J. S., Carlson, A. E., and Reyes, A.V. "*Magnetic fingerprints of Greenlandic sediments*" Abstract ID 2570. Presentation to INQUA XVIII Congress, Bern, 21st July 2011.
- Hatfield, R. G.**, Stoner, J. S., Carlson, A. E., and Reyes, A.V. "*Development of particle sized magnetic fingerprints to trace the retreat of the Greenland ice sheet.*" Presentation to The Arctic Workshop, UQAM, Montreal, 4th March 2011.
- Hatfield, R. G.**, Stoner, J. S., Carlson, A. E., and Strano, S.E. "*Magnetic fingerprints of Greenlandic sediments*" Abstract PP11D-1455. Presentation to AGU Fall Meeting, San Francisco, 13th December 2010.
- Hatfield, R.G.**, and Maher, B.A. "*Sediment sourcing and environmental reconstruction using particle size-specific magnetic fingerprinting: Bassenthwaite Lake, UK.*" Presentation to PAGES YSM, Oregon State University, 7th July 2009.

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- Hatfield, R.G.**, and Cioppa, M.T. "*Particle size specific magnetic fingerprinting of beach sands: Point Pelee National Park, Ontario, Canada.*" Abstract GP32A-05 Presentation to the AGU Joint Assembly, Toronto, 27th May 2009.
- Hatfield, R.G.**, and Maher, B.A. "*Sediment dynamics in an upland temperate catchment: magnetic identification of changing sediment sources and rates.*" Abstract ID 1607-7962. Presentation to the EGU, Vienna, 16th April 2008.
- Hatfield, R.G.**, and Maher, B.A. "*Suspended sediment tracing using a magnetic fingerprinting technique*" Presentation to SET for Britain, 13th March 2005, House of Commons, Palace of Westminster, London

Other Invited/Contributed Presentations:

- Klotsko S., **Hatfield R.G.**, Reilly B.T., Mix A.C., Jennings A.E., Gregory E., Stoner J.S., Walczak M.H., Donnenfield J., Fritz C., Hough A., Kelleher R., Monito L.R., Olarte P., Siragusa M., Stelling K., and Vonnahme T.R. Geomorphic evidence for along-margin ice flow from Melville Bugt slope, west Greenland. EGU General Assembly Abstract #EGU24-12152: 1pp. 2024
- Monito L., Stoner J.S., and **Hatfield R.G.** Exceptional Archive of Brunhes and Matuyama Geomagnetic Excursions from the Southern Hemisphere: The Upper 100 m of IODP Site U1543 on the Chilean Margin. AGU Fall Meeting. Abstract #GP43D-0535: 1pp. 2023.
- Olarte P.M., Martin E.E., and **Hatfield R.G.** Grain Size-Specific Analyses of Authigenic and Detrital Nd and Pb Isotopic Records from North Atlantic Deep Marine Sediments. AGU Fall Meeting. Abstract #PP11G-1223: 1pp. 2023
- Cargill S.K., Stoner J.S., Walczak M.H., Reilly B.T., **Hatfield R.G.**, Mix A.C., and Fallon S. Multi-Proxy Approach to Develop a Chronological Framework on the Cascadia Margin Using Radiocarbon and Paleomagnetic Secular Variation Constrained by Chemical, Magnetic, and Physical Properties. AGU Fall Meeting. Abstract #PP13E-1253A: 1pp. 2023
- Stoner J.S., Reilly B.T., **Hatfield R.G.**, and Monito L. Development of a centennial/millennial magnetostratigraphic reference record to support multi-proxy chronologies for the Northern North Atlantic over the last ice age. AGU Fall Meeting. Abstract #PP13E-1256: 1pp. 2023
- Stelling K., Fritz C., Monito L., Donnenfield J.T., Walczak M.H., Reilly B.T., Stoner J.S., **Hatfield R.G.**, Jennings A.E., Klotsko S., Mix A.C., Cheseby M., Fanshler C., Freiberg B., Walczak P.S., and The BADEX Science Team. Taking CT to Sea: Real-time input from 3D Computed Tomography while coring west Greenland deglacial sediments. AGU Fall Meeting. Abstract #PP23D-1404: 1pp. 2023.
- Vornlocher J., Werne J.P., Abbott M.B., Marchetti D.W., Anderson L., Brunelle A., Stoner J.S., Reilly B.T., Morris J., Carter V., Power M.J., **Hatfield R.G.**, Sinon H., Finkenbinder M.S., Peters W., Ritter C., Larsen D.J., and Lasher G.E. Moisture Source Change of the last 60ka at Fish Lake, Utah. AGU Fall Meeting. Abstract #PP31C-1486: 1pp. 2023
- Rodbell D.T., **Hatfield R.G.**, Abbott M.B., Chen C.Y., Woods A., McGee D., Stoner J.S., Tapia P., Huaraz A., and Bush M. 700,000 Years of Tropical Andean Glaciation. AGU Annual Meeting. Abstract #380841: 1pp. 2022
- Stoner J.S., **Hatfield R.G.**, Reilly B.T., Mazaud A., de Vernal A., Hillaire-Marcel C., Hodell D.A., and Xuan C. Geomagnetic Network Analysis (GNA) a Paleomagnetic Approach for Regional Synchronization and Chronological Improvement: A Case Study Constraining Non-linear Accumulation Rates During the Last Interglaciation in Cores South of Greenland. AGU Fall Meeting. Abstract #PP26A-02: 1pp. 2022
- Vornlocher J., Abbott M.B., Marchetti D.W., Anderson A., Brunelle A., Stoner J.S., Reilly B.T., Morris J.L., Carter V., Power M.J., **Hatfield R.G.**, Sinon H., Finkenbinder M.S., Peters W., Ritter C., Larsen D.J., Lasher G.E., Mark S., and Werne J.P. 30,000-Year Record of Glacial History and Water Balance from Fish Lake, Utah. AGU Fall Meeting. Abstract #PP55C-0492A: 1pp. 2022
- Stoner J.S., **Hatfield R.G.**, Reilly B.T., Freiberg B., Mazaud A., Channell J.E.T., Hillaire-Marcel C., de Vernal A., and Hodell D.A. Towards an understanding of Greenland Ice Sheet Instability

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- Through a Detailed Magneto-stratigraphic and Sedimentological Examination of the Deep Eirik Ridge Sedimentary Record. AGU Fall Meeting. Abstract #C31A-09: 1pp. 2021.
- Reilly B.T., Tauxe L., Brachfeld S.A., Stoner J.S., Hemming H.R., Bailey I., Raymo M.E., Weber M., Williams T., O'Connell S., Warnock J., Hernández-Alméida I., Zheng X., **Hatfield R.G.**, and The IODP Exp. 382 Science Team. Assessing a 3.0 – 1.7 Ma Scotia Sea relative paleointensity record and its potential to constrain the chronology of Antarctic dynamics during the intensification of bipolar glaciation. AGU Fall Meeting. Abstract #GP34A-05: 1pp. 2021
- Reilly B., Tauxe L., Brachfeld S., **Hatfield R.G.**, Stoner J., Raymo M.E., Bailey I., Hemming S., Weber M.E., Williams T., Garcia M., Guitard M., Martos Y., Pérez L., Zheng X., Armbrecht L., Cardillo F., Du Z., Fauth G., Glueder A., Gutjahr M., Hernandez-Almeida I., Hoem F., Hwang Ji-H., Iizuka M., Kato Y., Kenlee B., O'Connell S., Peck V.L., Ronge T., Seki O., Tripathi S., and Warnock J.P.. New Magnetostratigraphic Insights From Iceberg Alley On The Rhythms Of Antarctic Climate During The Plio-Pleistocene. GSA Annual Meeting. Abstract #358985: 1pp. 2020
- Chen C.Y., Woods A., **Hatfield R.G.**, McGee D., Edwards R.L., Valero-Garcés B., Stoner J.S., Weidhaas N., Tal I., Tapia P.M., Bush M., Abbott M., and Rodbell D. Establishing robust lake sediment chronologies: Lessons from U/Th dating the long lake sediment record from Lake Junín, Peru. EGU General Assembly. Abstract #1466: 1pp. 2019
- Smith A.J., Ito E., Fritz S.C., **Hatfield R.G.**, Layzell A.L., Lowenstein T.K., McGee D., Molnar P., Stefanova I., Valero-Garces B.L., Werne J.P., and Williams J.W. Exploring Hydroclimatic Connections Between the Blythe Basin, Arizona and Western Pliocene Lakes of North America. GSA Annual Meeting. Abstract #335514: 1pp. 2019
- Stoner J.S., Reilly B.T., and **Hatfield R.G.** The Last Geomagnetic Intensity Cycle Initiative: A constrained time interval to build cross-disciplinary geomagnetic collaboration. AGU Fall Meeting. Abstract #GP43B-0806: 1pp. 2019.
- Chen C.Y., Woods A., McGee D., **Hatfield R.G.**, Perez L., Lehmann S.B., Edwards L., Valero-Garces B.L., Stoner J.S., Schwab A., Tal I., Abbott M.B., and Rodbell D. The 700-kyr Sediment Record of Lake Junín, Peru: Lessons for U-Th Dating Lake Sediments. AGU Fall Meeting. Abstract #GC13A-02: 1pp. 2019
- Woods A., Chen C.Y., Lehmann S.B., **Hatfield R.G.**, Stoner J.S., McGee D., Valero-Garces B.L., Rodbell D., and Abbott M.B. P/E Balance and Glaciation in the Tropical Andes during Marine Isotope Stages 13–15. AGU Fall Meeting. Abstract #PP43B-1607: 1pp. 2019
- Reilly, B.T., Stoner, J.S., **Hatfield, R.G.**, Abbott, M.B., Marchetti, D.W., Larsen, D.J., Finkenbinder, M.S., Hillman, A.L., Kuehn, S.C., and Heil, C.W. Regionally Consistent Western North America Paleomagnetic Directions from 15-35 ka: Assessing Chronology and Uncertainty with Paleosecular Variation (PSV) Stratigraphy. Presentation to AGU Fall Meeting, Washington D.C., 13th December 2018.
- Carlson, A.E., Walczak, M.H., Beard, B.L., Laffin, M.K., Stoner, J.S., and **Hatfield, R.G.** Absence of the West Antarctic ice sheet during the last interglaciation. Accepted Oral Presentation to AGU Fall Meeting, Washington D.C., 10th December 2018.
- Woods, A., Lehmann, S.B., Chen, C.Y., **Hatfield, R.G.**, Stoner, J.S., McGee, D.M., Bush, M.B., Abbott, M.B., and Rodbell, D.T. Extra-tropical Influence on Hydrologic Balance in the High Elevation Andes: Physical Sedimentology Evidence from Lake Junín, Peru during the Last Glacial Period. Accepted Oral Presentation to AGU Fall Meeting, Washington D.C., 11th December 2018.
- Kumagai, Y., Nakamura, N., **Hatfield, R.G.**, Yamazaki, T., Yamamoto, Y., & Expedition 363 Scientists. Preliminary report on sedimentary structure and magnetostratigraphy of IODP Site U1490. Presentation to JpGU, Chiba, Japan, 21st May 2018.
- Rodbell, D., Abbott, M., McGee, D., Chen, C., Stoner, J.S., **Hatfield, R.G.**, Tapia, P., Bush, Weidhaas, N., Woods, A., M. Valero Garces, B., Lehmann, S.B., Bustamante, M.G., & Larsen, D. A continuous record of glacial-interglacial cycles spanning more than 500 kyr from Lake Junín, Perú. Presentation to AGU Fall Meeting, New Orleans, 13th December 2017.
- Solada, K., de Silva, S.K., Stoner, J.S., Mucek, A.E., Reilly, B.T., **Hatfield, R.G.**, Pratomo, I., Bowers, J., Jamil, R., Setianto, B. Constraining Resurgence through Lake Sediment Paleomagnetism on

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- Resurgent Dome Samosir Island in Toba Caldera, Sumatra, Indonesia. Presentation to AGU Fall Meeting, New Orleans, 12th December 2017.
- Rodbell, D., Abbott, M.B., Chen, C., McGee, D., **Hatfield, R.G.**, Stoner, J.S., Tapia, P., Valero Garces, B., Weidhaas, N., Woods, A., Hillman, A., Larsen, D., Valencia, B., & Bush, M. An ~500,000 yr record of tropical glaciation recovered during the Lake Junin (Peru) Drilling Project. Presentation to the EGU, Vienna, 27th April, 2017.
- Weidhaas, N., Woods, A., Rodbell, D., Larsen, D., Abbott, M., & **Hatfield, R.G.** The Timing and Magnitude of Late Pleistocene and Holocene Lake Level Change from a Paired Carbonate $\delta^{18}\text{O}$ - Stratigraphy Record Of A Core Transect In Lake Junin, Peru. Presentation to GSA Joint Annual Section Meeting, Pittsburgh, 21st March 2017.
- Morris, J., Stoner, J.S., Reilly, B.T., **Hatfield, R.G.**, Konyndyk, D., Abbott, M., Finkenbinder, M.S., Hillman, A.L. Lake Sediment Particle Size Analysis for Holocene Paleoenvironmental Study of Steens Mountain, Eastern Oregon. Presentation to AGU Fall Meeting, San Francisco, 12th December 2016.
- McCanta, M.C. & **Hatfield, R.G.** Identifying Eruption Dynamics in the Northern Lesser Antilles Using Cryptotephra. Presentation to AGU Fall Meeting, San Francisco, 12th December 2016.
- Palmer, M.R., Fraass, A.J., **Hatfield, R.G.**, & McCanta, M.C. The pace of arc volcanism. Presentation to AGU Fall Meeting, San Francisco, 12th December 2016.
- Rodbell, D., Abbott, M., Weidhaas, N., **Hatfield, R.G.**, Woods, A., Hillman, A.L., Tapia, P.M., Chen, C.Y., McGee, D., & Stoner, J.S. Initial Results from the Deep Drilling of Lake Junin, Perú. Presentation to AGU Fall Meeting, San Francisco, 13th December 2016.
- Walczak, M.H., Carlson, A.E., Stoner, J.S., **Hatfield, R.G.**, Mathias, A., & Wolhowe, M.D. Late Pliocene Glaciation of Southern Greenland and Ice/Ocean Interactions. Presentation to AGU Fall Meeting, San Francisco, 15th December 2016.
- Weidhaas, N., Larsen, D., Rodbell, D., Woods, A., **Hatfield, R.G.**, & Abbott, M. Controls on the composition and distribution of late Pleistocene and Holocene sediment in Lake Junín, Peru: A transect core study. Presentation to AGU Fall Meeting, San Francisco, 13th December 2016.
- Blake-Mizen, K., Bailey, I., Carlson, A.E., Stoner, J.S., **Hatfield, R.G.**, Xuan, C., & Lawrence, K. Reconstructing southern Greenland Ice Sheet history during the intensification of Northern Hemisphere glaciation: Insights from IODP Site U1307. Presentation to the EGU, Vienna, 22nd April, 2016.
- Farrington, E., Rodbell, D., Abbott, M., Tapia, P., Stoner, J., **Hatfield, R.G.**, Weidhaas, N., Woods, A., Hillman, A., Chen, C., Larsen, D., & Delgado, G. Initial Results from Deep Drilling Lake Junin, Peru. Presentation to GSA Northeastern Section Meeting, Albany, 23rd March 2016.
- Weidhaas, N., Woods, A., Abbott, M., Rodbell, D., Larsen, D., Hillman, A., Finkenbinder, M.S., **Hatfield, R.G.**, Delgado, G., & Tapia, P. Controls on the Composition and Distribution of Holocene Sediment in Lake Junín, Peru. Presentation to GSA Northeastern Section Meeting, Albany, 23rd March 2016.
- Weidhaas, N., Woods, A., **Hatfield, R.G.**, Abbott, M., Rodbell, D., Larsen, D., Brady, K., Delgado, G., & Hillman, A. Controls on the Composition and Distribution of Holocene Sediment in Lake Junín, Peru. Presentation to AGU Fall Meeting, San Francisco, 14th December 2015.
- Walczak, M., Carlson, A.E., Stoner, J.S., **Hatfield, R.G.**, Wolhowe, M., & Mathias, A. Late Pliocene deglaciation of Southern Greenland. Presentation to AGU Fall Meeting, San Francisco, 17th December 2015.
- Stoner, J.S., Abbott, M., Ziegler, L., Reilly, B., Finkenbinder, M., **Hatfield, R.G.**, Hillman, A., & Konyndyk, D. The Holocene History of the North American Flux lobe: New Constraints From Fish Lake, Harney County, Oregon. Presentation to AGU Fall Meeting, San Francisco, 17th December 2015.
- Carlson, A.E., Mathias, A., **Hatfield, R.G.**, Winsor, K., and Stoner, J.S. "South Greenland ice-sheet response to the Mid-Pliocene Climatic Optimum. Presentation to AGU Fall Meeting, San Francisco, 17th December 2014.

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- Reilly, B., Stoner, J.S., **Hatfield, R.G.**, Ziegler, L.B., Abbott, M.B., Larsen, D.J., Hillman, A.L., and Finkenbinder, M.S. A 33kyr paleomagnetic secular variation record from Fish Lake, Utah. Presentation to AGU Fall Meeting, San Francisco, 19th December 2014.
- Stinton, A.J., **Hatfield, R.G.**, and McCanta, M. Effect of aseismic ridge subduction on volcanism in the NE Lesser Antilles Arc. Presentation to AGU Fall Meeting, San Francisco, 17th December 2014.
- Ziegler, L.B., Stoner, J.S., Abbott, M.B., Finkenbinder, M.S., **Hatfield, R.G.**, Konyndyk, D., Reilly, B., and Hillman, A.L. A Holocene paleomagnetic record from Fish Lake, Oregon. Presentation to AGU Fall Meeting, San Francisco, 19th December 2014.
- Stoner, J.S., Ziegler, L., Abbott, M., Finkenbinder, M., **Hatfield, R.G.**, & Strano, S. Does the Mantle Impose a Structure on the Geodynamo That Dictates Paleo-Geomagnetic Behavior? New Results from Fish Lake, Oregon. Presentation to the EGU, Vienna, 29th April, 2014.
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