

# ANGELA L. SLAGLE

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## EDUCATION

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- 2000-2007 **Columbia University–Lamont-Doherty Earth Observatory** New York, NY  
Ph.D., Dept. of Earth and Environmental Sciences, June 2007. Thesis: *Spatial and Temporal Variability of Sedimentary Processes in the Hudson River Estuary*  
M. Phil., Marine Geology and Geophysics, May 2005  
M.A., Marine Geology and Geophysics, March 2002
- 1997 **University of North Carolina at Chapel Hill** Chapel Hill, NC  
B.A., Department of Geology  
Double major in Geology and German  
Graduated with distinction, elected to Phi Beta Kappa Honor Society

## RESEARCH INTERESTS

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Sedimentary features and subsurface imaging in subduction zone and passive margin settings; Carbon sequestration in ocean basalt reservoirs; GIS visualization and analysis.

## PROFESSIONAL EXPERIENCE

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- 2011-present **Associate Research Scientist**  
Borehole Research Group, Lamont-Doherty Earth Obs. of Columbia University, NY
- 2007-2011 **Postdoctoral Research Scientist**  
Borehole Research Group, Lamont-Doherty Earth Obs. of Columbia University, NY
- 2005-2007 **Graduate Research Fellow**  
Hudson River Foundation, New York, NY
- 2002-2005 **Graduate Research Fellow**  
NOAA/National Estuarine Research Reserve System
- 2000-2007 **Faculty Fellow**  
Lamont-Doherty Earth Observatory of Columbia University, NY

## TEACHING EXPERIENCE

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### Guest lecturer

- Carbon Sequestration in Deep-Sea Basalt*, Columbia University, NY, EESC V1030x Oceanography (Oct. 2010)
- An introduction to scientific drilling and IODP*, Columbia University, NY, SIPA Env. Sci. & Policy MPA program (June 2010)
- Tributary deposits in the Hudson River Estuary*, Queens College, C.U.N.Y., NY, Coastal and Estuarine Processes (Oct. 2006)

### Graduate Teaching Assistant, Columbia University, New York, NY

- 2001-2003 Teaching/Lab Assistant for Plate Tectonics course, Mid-Ocean Ridge seminar, Solid Earth Systems course, Advanced Submarine Geology seminar

**Summer Intern Supervisor**, Lamont-Doherty Earth Obs. (June-August, 2003)

**FIELD EXPERIENCE**

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- 2014 USGS ECS 2D Seismic Mission, MGL1407 (R/V Langseth) U.S. Atlantic Seaboard  
Science Technician: Mapping sediment thickness to delineate extended continental shelf for Law of the Sea studies and collecting transects of submarine landslides to determine tsunami hazards along eastern U.S. seaboard.
- 2013 Southern Alaska Margin, IODP Exp 341 (JOIDES Res) Gulf of Alaska  
Logging Staff Scientist: Examining the sedimentary record for evidence of climate-tectonic feedbacks by drilling a cross-margin transect to sample the continental shelf, slope, and deep-sea Surveyor Fan, the sink for glacial sediment, in the Gulf of Alaska.
- 2012 Lesser Antilles Volcanism & Landslides, IODP Exp 340 (JOIDES Res) Antilles Arc  
Logging Staff Scientist: Investigating the magmatic evolution in space and time along the Lesser Antilles arc and identifying the mechanisms controlling triggering, transport, and deposition of volcanic debris avalanches.
- 2012 Atlantis Massif Oceanic Core Complex, IODP Exp 340T (JOIDES Res) Mid-Atl Ridge  
Expedition Project Manager/Logging Staff Scientist: Wireline logging at Atlantis Massif, Mid-Atlantic Ridge, 30°N, to test the hypothesis that highly altered intervals and fault zones may be responsible for seismically-imaged contrasts in an oceanic core complex.
- 2009-2010 Canterbury Basin Global Sea Level, IODP Exp 317 (JOIDES Res) Canterbury Basin  
Logging Staff Scientist: Investigating the relative importance of global sea level and local tectonic and sedimentary processes in controlling continental margin deposition in the Canterbury Basin, on the east margin of the South Island of New Zealand.
- 2009 Nankai Trough Subduction Inputs, IODP Exp 322 (D/V CHIKYU) Nankai Trough  
Core-Log-Seismic Integration Specialist/Logging Scientist: NanTroSEIZE Stage 2: Subduction Inputs, investigating the composition and architecture of pre-subduction inputs to the seismogenic zone, offshore Kii Peninsula, Japan.
- 2009 IODP Sea Trials, Exp 320T (JOIDES Res) Equatorial Pacific  
Logging Staff Scientist/Science Coordinator: IODP Sea Trials (Guam to Hawaii), testing new wireline heave compensation system and tool responses on the JOIDES Resolution.
- 2004 NOAA Exploration Project (NOAA's Rude) Hudson River Estuary, NY–NJ  
Scientist: Marine magnetic survey in the Hudson Highlands as part of the NOAA project to identify shipwrecks in the Hudson River, NY.
- 2001-2004 Hudson River Benthic Mapping Program Hudson River Estuary, NY–NJ  
Team leader/Scientist: Three-year geophysical and sediment sampling surveying between the New York Harbor and the dam at Troy, NY, collecting sidescan sonar and chirp sub-bottom data, vibra-cores, gravity cores and sediment grab samples. Research vessels included Riverkeeper, R/V Walford and R/V Pritchard.
- 2002 North Atlantic Sediment Drifts, KN166-14 (R/V Knorr) North Atlantic Ocean  
Watch Stander: High-resolution multichannel seismics, swath bathymetry, gravity and piston coring to study the history of deep-water circulation in the northern North Atlantic as recorded in Eirik and Gardar Drift deposits.
- 2002 Geologic Mapping course and field work State of New York  
Scientist: Field mapping project in upstate NY, mapping and interpreting geologic sections.
- 2001 R/V Maurice Ewing transit, EW0107 North Atlantic Ocean  
Scientist: Transit cruise designed to test the performance of the upgraded Hydrosweep DS multibeam sonar on the R/V Ewing.

**RESEARCH PROPOSALS AND AWARDS**

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- U.S. Science Support Program, Consortium of Ocean Leadership \$14,988  
*Correlation of borehole and seismic data in the Gulf of Alaska at Sites U1417, U1418, U1420, and U1421 through synthetic seismograms* (Slagle), 2014-2016.

U.S. Science Support Program, Consortium of Ocean Leadership <i>Core-log-seismic integration at IODP Sites U1394, U1395, U1397, and U1399: an approach to velocity modeling based on synthetic seismograms</i> (Slagle), 2012-2014.	\$14,809
U.S. Science Support Program, Consortium of Ocean Leadership <i>Steps toward quantifying hydration of the lithosphere within the Atlantis Massif oceanic core complex</i> (Blackman, Harding, Slagle, Guerin), 2012-2014.	~\$15,000
U.S. Science Support Program, Consortium of Ocean Leadership <i>Wireline log-based stratigraphy along a slope-shelf transect in the Canterbury Basin, New Zealand</i> (Slagle), 2010-2012.	\$14,798
U.S. Science Support Program, Consortium of Ocean Leadership <i>Correlations between core, log, and seismic data in lower Shikoku Basin sediments at IODP Site C011</i> (Slagle), 2010-2012.	\$14,598
Hudson River Foundation, NY <i>Variability in Sediment Accumulation in the Hudson River Estuary</i> (Slagle, Ryan), 2005-2007.	\$15,000
NOAA, National Estuarine Research Reserve System <i>A Remote Sensing Approach to Quantify Benthic Environment of the Hudson River Estuary</i> (Slagle, Ryan), 2002-2005.	\$17,000–20,000/yr

## PROFESSIONAL SERVICE

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- USIO Representative to IODP's Science Steering and Evaluation Panel (2010-2011), Proposal Evaluation Panel (2011-2013), Science Evaluation Panel (2013-present)
- Reviewer for grant proposals of the National Science Foundation (2012-2013), Geophysical Research Letters (2012), City University of New York's Collaborative Incentive Research Grants Program (2005)
- Member of Lamont-Doherty hiring committee for Borehole Research Group postdoctoral research scientist position (2012-2013)
- Co-organizer of Lamont-Doherty Earth Science Colloquium Series 2010-11 (2010-present)
- Member of Lamont-Doherty Mentoring Award Committee (2005-2011)
- Organizer of Lamont-Doherty Marine Geology & Geophysics Seminar Series (2007-2008)
- Invited participant in ICDP Scientific Drilling Training Course, sponsored by ICDP and GFZ-Potsdam (November 2007; Windischeschenbach, GER)
- Selected participant in "Preparing for an Academic Career in the Geosciences," supported by National Association of Geoscience Teachers, with funding from NSF Division of Undergraduate Education (July 2006; Stanford University, Stanford, CA)
- Invited participant in Hudson River Foundation workshop on Sediment Transport in the Hudson River (November 2003; New York, NY)

## PROFESSIONAL MEMBERSHIPS

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- American Geophysical Union
- Estuarine Research Federation
- New England Estuarine Research Society

## PUBLIC OUTREACH

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- Earth2Class – lectured at monthly NSF-sponsored E2C workshop for K-12 educators, "Life & Science at Sea: Highlights from recent IODP Expeditions (2011).
- Lamont-Doherty Annual Open House – estuary model demo (2001-2006); demo of borehole logging & visualization tools (2007); CO<sub>2</sub> sequestration presentation (2008); CoreWall presentation (2010, 2012).

- Interviewed and provided material for NPR's Science Friday: "Turning Carbon Dioxide into Stone" (July 2008).
- Snapshot Day on the Hudson – demonstrated sediment sampling techniques and taught field measurements/interpretation with local high school students (2003-2004, 2010).
- Hudson River, River Summer – instructor in summer school field course designed to connect educators with specialists across a wide array of disciplines (2006).
- Columbia 250 Community Festival – estuary model demonstration (2004).
- Assisted Education Coordinator with local high-school groups at Piermont Pier, Piermont, NY, integrating field studies with required science curriculum (1-2/year, 2000-2004).

## PEER-REVIEWED PUBLICATIONS

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- LeFriant, A., Ishizuka, O., Boudon, G., Palmer, M.R., Talling, P., Villemant, B., Adachi, T., Aljehdali, M., Breikreuz, C., Brunet, M., Caron, B., Coussens, M., Deplus, C., Endo, D., Feuillet, N., Fraas, A.J., Fujinawa, A., Hart, M., Hatfield, R.G., Hornbach, M., J., Jutzeler, M., Kataoka, K. S., Komorowski, J.-C., Lebas, E., Lafuerza, S., Maeno, F., Manga, M., Martinez-Colon, M., McCanta, M., Morgan, S., Saito, T., **Slagle, A.L.**, Sparks, S., A., Stinton, A., Stroncik, N., Subramanyam, K. S.V., Tamura, Y., Trofimovs, J., Voight, B., Wall-Palmer, D., Wang, Fei, Watt, S.F.L. Submitted (Nov. 2014), Submarine record of volcanic island destruction and collapse in the Lesser Antilles arc: First scientific drilling of submarine volcanic landslides by IODP Expedition 340. *Geochemistry, Geophysics, Geosystems*.
- Gulick, S., Jaeger, J., Mix, A., **Exp 341 Science Party**. Submitted (Nov. 2014), Mid-Pleistocene climate transition drives net mass loss from rapidly uplifting St. Elias Mountains, Alaska. *Proceedings of the National Academy of Sciences*.
- Davies-Walczak, M., Mix, A.C., Willse, T., **Slagle, A.**, Stoner, J.S., Gulick, S., LeVay, L., Kioka, A., **Exp 341 Science Party**. In review (Oct. 2014), Volumetric correction of non-intrusive sediment physical properties data. *Geophysical Journal International*.
- Wall-Palmer, D. 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(7), 3000-3020.
- Blackman, D., **A. Slagle**, G. Guerin, A. Harding. 2014. Geophysical signatures of past and present hydration within a young oceanic core complex. *Geophysical Research Letters*, 41,1179-1186. doi: 10.1002/2013GL058111.
- Goldberg, D., K. Lackner, P. Han, **A. Slagle**, and T. Wang. 2013. Co-location of air capture, sub-seafloor CO<sub>2</sub> sequestration, and energy production on the Kerguelen Plateau. *Environmental Science & Technology*, 47 (13), 7521-7529.
- Pickering, K.T., M.B. Underwood, S. Saito, H. Naruse, S. Kutterolf, R. Scudder, J-O. Park, G.F. Moore, and **A. Slagle**. 2013. Depositional architecture, provenance, and tectonic/eustatic modulation of Miocene submarine fans in the Shikoku basin: results from NanTroSEIZE. *Geochemistry, Geophysics, Geosystems*, 14 (6), 1722-1739.
- Blackman, D., **A. Slagle**, A. Harding, G. Guerin, and A. McCaig. 2013. IODP Expedition 340T: Borehole Logging at Atlantis Massif Oceanic Core Complex. *Scientific Drilling*, 15, 31-36.
- Iturrino, G., T. Liu, D. Goldberg, L. Anderson, H. Evans, A. Fehr, G. Guerin, J. Inwood, J. Lofi, A. Malinverno, S. Morgan, S. Mrozewski, **A. Slagle**, and T. Williams. 2013. Performance of the Wireline Heave Compensation System onboard D/V *JOIDES Resolution*. *Scientific Drilling*, 15:46-50.
- Manga, M., M. J. Hornbach, A. LeFriant, O. Ishizuka, N. Stroncik, and **IODP Exp 340 Scientists**. 2012. Heat flow in the Lesser Antilles island arc and adjacent back arc Grenada Basin. *Geochemistry, Geophysics, Geosystems*, 13, Q08007.
- Slagle, A.L.** and D.S. Goldberg. 2011. Evaluation of ocean crustal Sites 1256 and 504 for long-term CO<sub>2</sub> sequestration. *Geophysical Research Letters*, 38. doi:10.1029/2011GL048613.
- Slagle, A.L.** and G. Guerin. 2011. Data report: Sonic velocity and synthetic seismograms for drill sites in the Canterbury Basin, Expedition 317. In Fulthorpe, C.S., Hoyanagi, K., Blum, P., and the Expedition 317 Scientists. *Proc. IODP*, 317: Tokyo (IODP-MI, Inc.).
- Fulthorpe, C.S., K. Hoyanagi, P. Blum, and **IODP Exp 317 Scientists**. 2011. IODP Expedition 317: Exploring the record of sea-level change off New Zealand. *Scientific Drilling*, 12: 4-14.

- Underwood, M.B., S. Saito, Y. Kubo, and **IODP Exp 322 Scientists**. 2010. IODP Expedition Drills Two Sites to Document Inputs to the Nankai Trough Subduction Zone. *Scientific Drilling*, 10: 14-25.
- Goldberg, D., T. Takahashi, and **A.L. Slagle**. 2008. Carbon Dioxide Sequestration in Deep-Sea Basalt. *Proceedings of the National Academy of Sciences, USA*, 105 (29): 9920-9925.
- Nitsche, F.O., W.B.F. Ryan, S.M. Carbotte, R.E. Bell, **A. Slagle**, C. Bertinado, R. Flood, T. Kenna, and C. McHugh. 2007. Regional Patterns and Local Variations of Sediment Distribution in the Hudson River Estuary. *Estuarine, Coastal, and Shelf Sciences*, 71 (1-2): 259-277.
- A.L. Slagle**, W.B.F. Ryan, S.M. Carbotte, R. Bell, F.O.Nitsche, and T. Kenna. 2006. Late-stage estuary infilling controlled by limited accommodation space in the Hudson River. *Marine Geology*, 232 (3-4): 181-202.
- Nitsche, F.O., R. Bell, S.M. Carbotte, W.B.F. Ryan, **A. Slagle**, S. Chillrud, T. Kenna, R. Flood, V. Ferrini, R. Cerrato, C. McHugh, and D. Strayer. 2005. Integrative acoustic mapping reveals Hudson River sediment processes and habitats. *EOS Transactions AGU*, 86 (24): 225, 229.
- Carbotte, S.M., R.E. Bell, W.B.F. Ryan, C.M.G. McHugh, **A. Slagle**, F. Nitsche and J. Rubenstone. 2004. Environmental Change and oyster colonization within the Hudson River estuary linked to Holocene climate. *Geo-Marine Letters*, 24 (4): 212-224.

## **REPORTS AND SELECTED OTHER PUBLICATIONS**

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- Expedition 341 Scientists**. In Press. Southern Alaska Margin: interactions of tectonics, climate, and sedimentation. *IODP Prelim. Rept.*, 341.
- LeFriant, A., Ishizuka, O., Stroncik, N.A., and **Expedition 340 Scientists**. 2013. *Proc. IODP*, 340: Tokyo (IODP-MI, Inc.). doi:10.2204/iudp.proc.340.2013.
- Expedition 340 Scientists**. 2012. Lesser Antilles volcanism and landslides: implications for hazard assessment and long-term magmatic evolution of the arc. *IODP Prelim. Rept.*, 340. doi:10.2204/iudp.pr.340.2012.
- Expedition 340T Scientists**. 2012. Atlantis Massif Oceanic Core Complex. *IODP Prelim. Rept.*, 340T. doi:10.2204/iudp.pr.340T.2012.
- Blackman, D. and **Slagle, A.L.** 2011. Atlantis Massif oceanic core complex: velocity, porosity, and impedance contrasts within the domal core of Atlantis Massif: faults and hydration of lithosphere during core complex evolution. *IODP Sci. Prosp.*, 340T. doi:10.2204/iudp.sp.340T.2011.
- Slagle, A.L.** and G. Guerin. 2011. Logging Summary, IODP Expedition 317: Canterbury Basin Sea Level. *IODP Publications*, [http://iodp.ldeo.columbia.edu/LOG\\_SUM/exp317/317.index.html](http://iodp.ldeo.columbia.edu/LOG_SUM/exp317/317.index.html).
- Nitsche, F.O., **Slagle, A.**, Ryan, W.B.F., Carbotte, S., Bell, R., and Flood, R. 2011. Human impacts on Hudson River morphology and sediments: a result of changing uses and interests. In *Environmental History of the Hudson River*, edited by R. Henshaw, pp. 53-64, SUNY Press, Stony Brook, NY.
- Fulthorpe, C.S., K. Hoyanagi, P. Blum, and **Expedition 317 Scientists**. 2011. *Proc. IODP*, 317: Tokyo (IODP-MI, Inc.). doi:10.2204/iudp.proc.317.2011.
- Saito, S., M.B. Underwood, Y. Kubo, and **Expedition 322 Scientists**. 2010. *Proc. IODP*, 322: Tokyo (IODP-MI, Inc.). doi:10.2204/iudp.proc.322.2010.
- Expedition 317 Scientists**. 2010. Canterbury Basin Sea Level: Global and local controls on continental margin stratigraphy. *IODP Prelim. Rept.*, 317. doi:10.2204/iudp.pr.317.2010.
- Underwood, M.B., Saito, S., Kubo, Y., and **Expedition 322 Scientists**. 2009. NanTroSEIZE Stage 2: Subduction Inputs. *IODP Prelim. Rept.*, 322. doi:10.2204/iudp.pr.322.2009.
- Goldberg, D. and **A.L. Slagle**. 2009. A global assessment of deep-sea basalt sites for carbon sequestration. *Energy Procedia*, 1(1): 3675-3682, Proceedings of the 9<sup>th</sup> International Conference on Greenhouse Gas Control Technologies, Nov 16-20, 2008, Washington, D.C.
- Capalbo, S., C. Wu, D. Goldberg, J. Matter and **A. Slagle**. 2009. Economic dimensions of geological CO<sub>2</sub> storage: key factors in an assessment of sub-seafloor and continental sequestration options. *Energy Procedia*, 1(1): 3675-3682, Proceedings of the 9<sup>th</sup> International Conference on Greenhouse Gas Control Technologies, Nov 16-20, 2008, Washington, D.C.

- Expedition 320T Scientists.** 2009. USIO Sea Trials and Assessment of Readiness Transit (START): Ontong Java Plateau. *IODP Prelim. Rept.*, 320T. doi:10.2204/iodp.pr.320T.2009.
- Slagle, A.L.** 2007. Anthropogenic Activity Influences Sedimentary Environment and Variations in Sedimentation in the Hudson River Estuary, *Final Report to Hudson River Foundation*, June 2007.
- Slagle, A.L.** 2006. A Remote Sensing Approach to Quantify the Benthic Environment of the Hudson River Estuary, *Final Report to NOAA, Estuarine Reserves Div., Nat. Est. Research Reserve*, April 2006.

## SELECTED ABSTRACTS

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- Slagle, A.L., L.L. Worthington, L. Drab, S. Gulick, and IODP Exp 341 Scientific Party.** 2013. “Correlation of borehole and seismic data in the Gulf of Alaska through synthetic seismograms: Preliminary results from IODP Expedition 341.” Abstract T23D-2623 presented at AGU Fall Meeting, San Francisco, CA (Dec 9-13, 2013).
- Worthington, L.L., Gulick, S.P., Ridgway, K.R., Jaeger, J.M., Cowan, E.A., **Slagle, A.L.**, and Forwick, M. 2013. “Interplay between climatic and tectonic processes in the St. Elias foreland, southern Alaska: Evolution of a glaciated convergent margin since the mid-Pleistocene.” Talk, Abstract T22C-05 presented at AGU Fall Meeting, San Francisco, CA (Dec 9-13, 2013).
- Slagle, A.L., S. Morgan, and IODP Exp 340 Scientific Party.** 2012. “Characterization of Lesser Antilles Volcanic Landslide Deposits from Downhole Logging, IODP Expedition 340.” Talk, Abstract V43G-07 presented at AGU Fall Meeting, San Francisco, CA (Dec 3-7, 2012).
- Blackman, D., **A. Slagle**, A. Harding, G. Guerin, and A. McCaig. 2012. “Formation and early evolution of oceanic lithosphere- multi-faceted study of tectonic, magmatic, and hydrologic processes at Atlantis Massif, MAR 30°N.” Invited talk, Abstract OS44A-01 presented at AGU Fall Meeting, San Francisco, CA (Dec 3-7, 2012).
- Pickering, K.T., M. Underwood, S. Saito, H. Naruse, S. Kutterolf, R. Scudder, J-O. Park, G. Moore, and **A. Slagle.** 2012. “Depositional architecture, provenance, and tectonic setting of Miocene submarine fans in the Shikoku Basin: Results from IODP Expedition 322.” Abstract T11A-2520 presented at AGU Fall Meeting, San Francisco, CA (Dec 3-7, 2012).
- Hornbach, M.J., M. Manga, T. Adachi, C. Breitreuz, S. Lafuerza, A. LeFriant, S. Morgan, O. Ishizuka, M. Jutzeler, **A.L. Slagle**, P. Talling. 2012. “In-situ physical properties of submarine slides along the Lesser Antilles Arc derived from rock physics models.” Abstract V53E-2883 presented at AGU Fall Meeting, San Francisco, CA (Dec 3-7, 2012).
- Slagle, A.L.** and D. Goldberg. 2011. “Characterizing ocean basalt reservoirs for CO<sub>2</sub> sequestration – Ocean drilling and geophysical logging at DSDP/ODP/IODP Sites 1256 and 504.” Abstract GC51B-0977 presented at AGU Fall Meeting, San Francisco, CA (Dec 5-9, 2011).
- Pickering, K.T., M.B. Underwood, S. Saito, S. Kutterolf, R.P. Scudder, H. Naruse, G.F. Moore, J. Park, **A.L. Slagle**, J. Tudge. 2011. “Depositional architecture and provenance of two Miocene submarine fans, northern Shikoku Basin, from IODP Expedition 322 results.” Abstract T14B-03 presented at AGU Fall Meeting, San Francisco, CA (Dec 5-9, 2011).
- Slagle, A.L.,** Exp 319 and 322 Shipboard Scientific Parties. 2011. “Correlations between core, logging-while-drilling, and seismic data at IODP Site C0011” Abstract presented at IODP Exp 319-322 Postcruise meeting, Barcelona, Spain (Sept 26-28, 2011).
- Podgorney, R., **A.L. Slagle**, T.L. McLing, and D.S. Goldberg. 2011. “Numerical simulation of carbon dioxide sequestration in deep-sea basalts.” Abstract presented at IODP/ICDP Workshop on Geological carbon capture and storage in mafic and ultramafic rocks: Role of oceanic and continental scientific drilling, Muscat, Sultanate of Oman (Jan 8-10, 2011).
- Slagle, A.L.** and G. Guerin. 2010. “Wireline log and seismic stratigraphic correlation along a slope-shelf transect in the Canterbury Basin, New Zealand.” Abstract presented at AGU Fall Meeting, San Francisco, CA (Dec 13-17, 2010).
- Pickering, K.T., M.B. Underwood, H. Naruse, J-O. Park, G.F. Moore, S. Kutterolf, **A. Slagle**, Y. Yamamoto, and IODP Expedition 322 Scientists. 2010. “Tectono-Stratigraphy and Seismic Character of Subducting Shikoku Basin Sediments, IODP Expedition 322.” Abstract presented at GSA Fall Meeting, Denver, CO (Oct 31–Nov 3, 2010).

- Slagle, A.L.** and D. Goldberg. 2010. “Geologic storage of carbon dioxide in deep-sea basalt”. Abstract presented at Gordon Research Conference on Flow and Transport in Porous Media, Lewiston, ME (July 12-16, 2010).
- Underwood, M.B., S. Saito, and **IODP Expedition 322 Scientists**. 2009. “Subduction inputs within the NanTroSEIZE transect area: Results from Expedition 322 of the Integrated Ocean Drilling Program.” Abstract presented at AGU Fall Meeting, San Francisco, CA (Dec 14-18, 2009).
- Krentz, S., S. Goodbred, F. Nitsche, C. McHugh, S. Carbotte, and **A. Slagle**. 2008. “Evidence for a tsunami event and coastal reorganization in the New York metropolitan region ~2300 yr BP.” Abstract presented at AGU Fall Meeting, San Francisco, CA (Dec 15-19, 2008).
- Nitsche, F.O., **A. Slagle**, W.B.F. Ryan, S. Carbotte, and R. Bell. 2008. “Impact of shoreline modifications on bathymetry and sediment distribution in the Hudson River Estuary.” Abstract presented at Historical Ecology of the Hudson Valley conference, Hudson River Environmental Society, June 2008.
- Goldberg, D. and **A. Slagle**. 2007. “A global assessment of deep-sea basalt sites for carbon sequestration.” Abstract presented at AGU Fall Meeting, San Francisco, CA (Dec 10-14, 2007).
- Goodbred, S., S. Krentz, P. LaCicero, S. Carbotte, F. Nitsche, and **A. Slagle**. 2007. “Evidence for a newly discovered 2300-year-old tsunami deposit from Long Island, NY.” Abstract presented at AGU Fall Meeting, San Francisco, CA (Dec 10-14, 2007).
- Slagle, A.L.**, W.B. Ryan, F.O. Nitsche, S.M. Carbotte, R. Bell. 2005. “Identifying Zebra Mussel Distribution in the Hudson River Estuary Using High-Resolution Geophysical Data.” Abstract presented at Estuarine Research Federation 2005 Conference, Norfolk, VA (Oct 16-20, 2005).
- Slagle, A.L.**, S.M. Carbotte, F.O. Nitsche, W.B. Ryan, R. Bell. 2004. “Spatial and Temporal Variability of Sedimentary Environments in the Hudson River Estuary.” Abstract presented at AGU, Joint Assembly [CGU, AGU, SEG, EGS], Montreal, Canada (May 17-21, 2004).
- Slagle, A.L.**, S.M. Carbotte, W.B. Ryan, R.E. Bell, F.O. Nitsche. 2003. “Impulsive Sediment Transport from the Sparkill Drainage.” Abstract presented at Hudson River Foundation Sediment Transport Workshop, New York, NY (Nov 2003).
- Slagle, A.L.**, S.M. Carbotte, W.B. Ryan, R.E. Bell, F.O. Nitsche. 2003. “High-Resolution Seismic Evidence for Changing Sedimentary Conditions in the Hudson River Estuary, Piermont, NY.” Abstract presented at Estuarine Research Federation 2003 Conference, Seattle, WA (Sept 15-19, 2003).
- Slagle, A.**, S.M. Carbotte, W.B. Ryan, R. Bell, F.O. Nitsche, C.M. McHugh. 2002. “Changes in Depositional Setting Reflect Rising Sealevel in Latest Holocene Sediments of the Hudson River.” Abstract presented at AGU Fall Meeting, San Francisco, CA (Dec 6-10, 2002).

## INVITED PRESENTATIONS

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- Slagle, A.L.** “Sonic velocity and synthetic seismograms for drill sites in the Canterbury Basin, New Zealand, IODP Exp 317”. Invited talk presented at IODP Exp 317 Postcruise meeting, Oamaru, New Zealand (Nov 16-18, 2011).
- Slagle, A.L.** “Seismic stratigraphy across the shallow shelf and slope from wireline logging data”. Invited talk presented at IODP Logging Symposium, Leicester, UK (Sept 21-22, 2010).
- Slagle, A.L.** “Geologic storage of carbon dioxide in deep-sea basalt”. Invited talk presented at Gordon Research Seminar on Flow and Transport in Porous Media, Lewiston, ME (July 10-11, 2010).
- Slagle, A.L.** “An introduction to scientific drilling and IODP”. Invited talk presented to SIPA Environmental Science and Policy MPA Program, Columbia University, NY (June 28, 2010).

## SKILLS

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Integration of geophysical data with sedimentary/stratigraphic data, with applications such as GeoFrame logging software and IESX seismic visualization software (Geoquest), Geolog software (Paradigm), and a suite of data integration tools (Corelyzer, Correlator); Data visualization and analysis with ESRI’s Geographic Information Systems, GMT, and GeoMapApp; Familiarity with Windows, Macintosh and Unix environments; Familiarity with spreadsheet, graphics, and presentation software, including Adobe Creative Suite and Microsoft Office.