

Katrin Monecke, PhD

Associate Professor of Geosciences

Wellesley College, 106 Central Avenue, Wellesley, MA 02481, USA

Email: kmonecke@wellesley.edu Phone: ++1 (781) 283-3612

EDUCATION

- 2000 – 2004** **PhD, Department of Earth Sciences, Swiss Federal Institute of Technology (ETH), Zurich, Switzerland**
PhD Thesis: Earthquake-Induced Deformation Structures in Lake Deposits – A Late Pleistocene to Holocene Paleoseismic Record for Central Switzerland.
- 1994 – 1995** **Visiting student, University of Parma, Italy**
- 1991 – 1999** **Dipl. Geol. (MS), Institute of Geology and Paleontology, University of Hannover, Germany**
Master Thesis in collaboration with the Federal Institute for Geosciences and Natural Resources (BGR), Hannover, Germany: Mapping and Facies Analysis of Quaternary Alluvial Deposits along the Southern Miristi Khola, Myagdi, Nepal.
-

PROFESSIONAL APPOINTMENTS

- Since 2011** **Department of Geosciences, Wellesley College, MA, USA**
Assistant/ Associate Professor since 2012 (tenure in 2017, Chair 2021-2025)
Visiting Lecturer (2011-2012)
- *Taught undergraduate classes at all levels of the curriculum including lectures, seminars, laboratory exercises, and field trips*
 - *Developed research experiences for > 30 undergraduate students*
 - *Department business including hiring, mentoring, budgeting, and managing of geologic collections during department space renovation*
 - *Served on college-wide committees including committees on International Studies, Sustainability, and Faculty Research Awards*
- 2008 – 2011** **Department of Geology and Planetary Sciences, University of Pittsburgh at Johnstown, PA, USA**
Visiting Assistant Professor
- *Taught undergraduate classes at all levels of the curriculum including lectures, laboratory exercises, and field trips; developed student research experiences*
- 2007- 2008** **Department of Geology, Kent State University, Kent, OH, USA**
Lecturer
- *Taught undergraduate and graduate classes including lectures, seminars, laboratory exercises, and field trips*

- 2007** **Department of Earth Science and Geography,
Vassar College, Poughkeepsie, NY, USA**
Research Associate
- *Tsunami hazard assessment in Aceh, Indonesia*
- 2006 - 2007** **Department of Geology, Kent State University, Kent, OH, USA**
Postdoctoral Researcher
- *Tsunami hazard assessment in Aceh, Indonesia*
- 2005 - 2006** **Institute for Aquatic Research (EAWAG), Zurich, Switzerland**
Postdoctoral Researcher
- *Analysis of climate records from lake sediments in Switzerland*
- 2004 - 2005** **Department of Corporate Communications at ETH Zurich, Switzerland**
Scientific Advisor for public exhibition on ETH's 150-year anniversary
- *Responsible for all geological exhibits in tent "Discover Earth and Life Dynamics". Exhibition counted 200'000 visitors in 10 days.*
- 2000 - 2004** **Geological Institute, ETH Zurich, Switzerland**
Teaching Assistant
- *Assisted with lab exercises and field work in graduate and undergraduate classes*
- 1996 - 1999** **Department of Engineering Geology and Geotechnics,
BGR, Hannover, Germany**
Research Assistant/ Researcher
- *Investigation of potential nuclear waste disposal sites including core analysis and mapping of underground sites (salt mines and granite galleries) in Germany and Switzerland*

PUBLICATIONS

(Undergraduate students marked with star)

Peer-Reviewed

EBEL, J.E., **MONECKE, K.**, HUBENY, J.B., MCCARTHY, F.M.G., THEIS, L., ALDERSON, A. (2026):
Looking for the Possible Epicenters and Magnitudes of Strong Prehistoric Earthquakes
Near Boston, Massachusetts. In press at *Seismological Research Letters*.

- MONECKE, K.,** HUBENY, B., MCCARTHY, F., ALDERSON, A., BOYCE, J., BRABANDER, D., VERESH, R., CHEN, A.*, KNIGHTS, C.*, NISHIMOTO, M.*, PASSARETTI, M.*, PILKINGTON, P.M., RIDDICK, N. (2025): Sedimentation patterns in the three basins of Walden Pond, Concord, Massachusetts, U.S.A. – A multiproxy approach to decipher environmental trends, anthropogenic impacts, and regional events of the last 800 years. *Journal of Sedimentary Research*, 95 (4), 605–626. <https://doi.org/10.2110/jsr.2024.110>
- MONECKE, K.** (2020): Chapter 22 - Erosional signatures and reorganization in ridge-and-swale sequences. In: (Eds.) ENGEL, M., PILARCZYK, J., MAY, S. M., BRILL, D., GARRETT, E. (Eds.): Geological Records of Tsunamis and Other Extreme Waves. *Elsevier Book*, 471-489. <https://doi.org/10.1016/B978-0-12-815686-5.00022-5>
- MONECKE, K.,** MCCARTHY, F. M. G., HUBENY, B. J., EBEL, J.E., BRABANDER, D. J., KIELB, S.*, HOWEY, E.*, JANIGIAN, G.*, PENTESCO, J. (2018): The AD 1755 Cape Ann earthquake in lake sediments of eastern New England - an interdisciplinary paleoseismic approach. *Seismological Research Letters* (2018) 89 (3), 1212-1222. <https://doi.org/10.1785/0220170220>
- MONECKE, K.,** MEILIANDA, E., WALSTRA, D.-J., HILL, E., MCADOO, B., QIU, Q., STORMS, J., SRI MASPUTRI, A., MAYASARI, C. D., NASIR, M., RIANDI, I., SETIAWAN, A., TEMPLETON, C.* (2017): Postseismic Coastal Development in Aceh, Indonesia - Field Observations and Numerical Modeling. *Marine Geology*, 392, 94-104. <https://doi.org/10.1016/j.margeo.2017.07.012>
- MONECKE, K.,** TEMPLETON, C.T.*, FINGER, W., HOUSTON, B.L., LUTHI, S. M., MCADOO, B.G., MEILIANDA, E., STORMS, J. E. A., WALSTRA D.-J., AMNA, R., HOOD N.*, KARMANOCKY, F. J.*, NURJANAH; RUSYDY, I., SUDRAJAT, S. U. (2015): Beach Ridge Patterns in West Aceh, Indonesia, and their Response to Large Earthquakes along the Northern Sunda Trench. *Quaternary Science Reviews, Special Issue: Megathrust Earthquakes*, 113, 159-170. <https://doi.org/10.1016/j.quascirev.2014.10.014>
- STRASSER, M., **MONECKE, K.,** SCHNELLMANN, M. & ANSELMETTI, F. S., (2013): Lake sediments as natural seismographs: A compiled record of Late Quaternary earthquakes in Central Switzerland and its implication for Alpine deformation. *Sedimentology, Special Issue: Alpine Sedimentology*. 60-1, 319-341. <https://doi.org/10.1111/sed.12003>
- MONECKE, K.,** FINGER, W., KONGKO, W., MCADOO, B., MOORE, A. & SUDRAJAT, S. U. (2008): A 1000-year sediment record of tsunami recurrence in northern Sumatra. *Nature*, 455, 1232-1234. <https://doi.org/10.1038/nature07374>
- MONECKE, K.,** ANSELMETTI, F. S., BECKER, A., SCHNELLMANN, M., STURM, M. & GIARDINI, D. (2006): Earthquake-induced deformation structures in lake sediments – The paleoseismic record for Central Switzerland. *Eclog. Geol. Helv.*, 99, 343-362. <https://doi.org/10.1007/s00015-006-1193-x>
- BECKER, A., FERRY, M., **MONECKE, K.,** SCHNELLMANN, M. & GIARDINI, D. (2005): Multiarchive paleoseismic record of Late Pleistocene and Holocene strong earthquakes in Switzerland. *Tectonophysics*, 400, 153-177. <https://doi.org/10.1016/j.tecto.2005.03.001>

MONECKE, K., ANSELMETTI, F. S., BECKER, A., STURM, M. & GIARDINI, D. (2004): The record of historic earthquakes in lake sediments of Central Switzerland. *Tectonophysics*, 394, 21-40. <https://doi.org/10.1016/j.tecto.2004.07.053>

MONECKE, K., WINSEMANN, J. & HANISCH, J. (2001): Climatic response of Quaternary alluvial deposits in the upper Kali Gandaki valley (West Nepal). *Global and Planet. Change*, 28, 293-302. [https://doi.org/10.1016/S0921-8181\(00\)00080-1](https://doi.org/10.1016/S0921-8181(00)00080-1)

MONECKE, K., WINSEMANN, J. & HANISCH, J. (2000): Faziesarchitektur quartärzeitlicher Terrassenkörper des oberen Kali Gandaki Tals (West Nepal). *Z. dt. geol. Ges.*, 151, 59-80. <https://doi.org/10.1127/zdgg/151/2000/59>

Other

MONECKE, K., EBEL, J., HUBENY, B. (2022): Collaborative Research with Wellesley College, Salem State University and Boston College – Assessing the Seismic Potential of Eastern Massachusetts using Lacustrine Earthquake Records. *Final Technical Report for collaborative awards G20AP00062, G20AP00063 & G20AP00064 of the USGS Earthquake Hazards Program*. https://earthquake.usgs.gov/cfusion/external_grants/reports/G20AP00064.pdf

MONECKE, K., EBEL, J., ATANASSOVA, I.*, JANIGIAN, G.* with contributions from BENISHEK, C.*, FENDROCK, M.*, HOWEY, E.*, LEE, D.*, SHARP, R.* (2014): The seismic, historic and geologic record of earthquakes in New England. *New England Intercollegiate Geological Conference (NEIGC) fieldtrip guide*. Wellesley, MA. https://digitalmaine.com/geo_docs/161/

ANSELMETTI, F. S., HILBE, M., **MONECKE, K.,** SCHNELLMANN, M. & STRASSER, M. (2011): Paléosismologie et géologie des lacs. *Géochronique*, 117, 60-63.

MONECKE, K. & MATTERN, F. (1998): Das Kluftsystem im Bereich des Naturdenkmals "Saurierfähren Münchenhagen". In: R. FISCHER (Ed.), *Das Naturdenkmal "Saurierfähren Münchenhagen", Mitteilungen aus dem Geologischen Institut der Universität Hannover*, v. 37, p. 103-112, Hannover.

MATTERN, F., MAYER, M. & **MONECKE, K.** (1994): Die Klüfte im Sandstein der Bückeberg-Formation (Unterkreide) des Naturdenkmals "Saurierfähren Münchenhagen", Salzstruktur "Rehburg". *Berichte der naturhistorischen Gesellschaft Hannover*, v. 136, p. 67-74, Hannover.

EXTERNAL FUNDING

Spring 2020: Earthquake Hazards Program, U.S. Geological Survey (\$48,280)

Assessing the Seismic Potential of Eastern Massachusetts using Lacustrine Earthquake Records

February 2006: Grant for Young Researchers, Swiss Science Foundation, (\$30,000)

A record of paleotsunamis in northwestern Sumatra, Indonesia

TEACHING EXPERIENCE

Since September 2011 at Wellesley College

- Undergraduate classes at all levels of the curriculum including lectures, seminars, laboratory exercises and field trips. Classes taught:
The Dynamic Earth, Evolution of Earth Systems through Time, Geomorphology, Sedimentology and Stratigraphy, Paleoseismology
- Day and multiday field trips
Snowball Earth and the Roxbury Conglomerate, Boston, Massachusetts
A Traverse Through the Taconic Mountains, Massachusetts and New York State
The Evolution of the Early Mesozoic Hartford Rift Basin, Massachusetts
The Geologic History of the Colorado Front Range, Colorado
Glacial Deposits and Coastal processes at the North Shore and on Cape Cod, Mass.
The Geomorphology of the Connecticut River Valley, Massachusetts
The Devonian Foreland Basin of the Catskill Mountains, New York State
The Sedimentary Fill of the Hartford Rift Basin, Massachusetts
The Epicentral Region of the 1727 Newbury Earthquake, Massachusetts

August 2008 – April 2011 as Visiting Assistant Professor at Pitt-Johnstown

- Undergraduate classes including lectures, lab exercises and weekend fieldtrips in western Pennsylvania, northern Ohio and coastal Maryland. Classes taught:
The Earth's Climate, Physical Geology, Historical Geology, Geomorphology, Sedimentology and Stratigraphy, Introduction to Paleontology

Aug 2007 – May 2008 as Lecturer at Kent State University:

- Undergraduate and graduate classes including lectures, seminars, lab exercises and local fieldtrips. Classes taught:
Environmental Geology, Earth Dynamics, Earth History, Coastal Processes, Paleoseismology

Apr 2000 – Jun 2004 as Teaching Assistant at the Geological Institute, ETH Zurich:

- Assisted in graduate and undergraduate classes:
Geological Mapping, Sedimentary Petrography, Limnogeology, Field courses in the Jura Mountains and Swiss Alps

STUDENT RESEARCH

Since 2008: Developed research experiences for >50 undergraduate students at the University of Pittsburgh and Wellesley College including field work, laboratory work, and conference presentations. Supervised 4 undergraduate honor theses at Wellesley College.

ANALYTICAL EXPERIENCE

- Sedimentological field work
 - Surveying with auto-levels and total stations
 - Peat coring
 - Grainsize measurements using sieving, laser diffraction and imaging techniques
 - Spatial data analysis using ArcGIS and QGIS
 - Sedimentological analysis of lacustrine core samples
 - Sediment smear slide analysis
 - Core analysis using GEOTEK multiscanner and CT scanner
 - Gravity and piston coring in lakes (Kullenberg and UWITEC coring devices)
 - High resolution seismic surveys in lakes and seismic facies analysis
-

MEMBERSHIPS

Geological Society of America (GSA) and Limnogeological Division of GSA
American Geophysical Union (AGU)
European Geosciences Union (EGU)
Association of Women Geoscientists (AWG)
Seismological Society of America (SSA)
Society for Sedimentary Geology (SEPM)

SELECTED RECENT PROFESSIONAL ACTIVITIES

2021-2025	Reorganization of geological collections and planning of museum displays of selected geologic specimens through renovated Science Center at Wellesley College
Spring 2023	Visiting International Scholar at Brock University, St. Catharines, ON, Canada
11/29/2022	Seminar series of the Earth and Environmental Sciences Department, Boston College: The sedimentary record of strong earthquakes in lake sediments - case studies from Switzerland and New England
04/28/2021	Virtual guest lecture, Sedimentology and Stratigraphy, Earth Sciences Department, ETH Zurich, Switzerland: Küstenprozesse in Aceh, Indonesien, seit dem 2004 Tsunami und Implikationen für die Naturgefahrenbewertung.
10/26/2020	Organization of conference session T142: Techniques and Results of Paleoseismological and Seismic Hazard Studies of the Stable Craton of Eastern North America. 2020 virtual GSA annual meeting, Montreal, Canada.
05/30/2018	Weston Observatory Colloquium, Boston College, Weston, MA: Earthquake Records in Lake Sediments: Examples from Switzerland and New England

ABSTRACTS AT PROFESSIONAL MEETINGS

(last ten years, first author is presenting author, undergraduate students marked with star)

- Ma, M.*, Monecke, K., Hubeny, B., Veresh, R. (2025): Using Grain Size Analysis to Reconstruct the Moisture Balance of a Closed Lake System: ~14,000 Years of Water Level Changes at Walden Pond. *Northeastern Geological Society of America (GSA) annual meeting, Erie, PA.*
- Tague-Bleau, L.*, Solomon, A.*, Monecke, K., Koniger, M. (2025): Conservation and structural analysis of a Devonian *Eospermatopteris* tree stump. *Northeastern Geological Society of America (GSA) annual meeting, Erie, PA.*
- Monecke, K., Alderson, A., Boyce, J., Brabander, D., Ebel, J., Hubeny, B., McCarthy, F. (2024): A Paleoseismic Record For The Last 800 Years From Two Lakes In Eastern Massachusetts. *Northeastern Geological Society of America (GSA) annual meeting, Manchester, NH.*
- Solomon, A.*, Monecke, K., Buchholtz, E. (2024): Conservation Efforts and Challenges of a Fossilized *Eospermatopteris* Tree Stump from Gilboa, New York. *Northeastern Geological Society of America (GSA) annual meeting, Manchester, NH.*
- Mahar, V.*, Monecke, K. (2024): Communicating Earth Sciences to the Wellesley College Community Using a RaspberryShake Seismograph. *Northeastern Geological Society of America (GSA) annual meeting, Manchester, NH.*
- Alderson, A., McCarthy, F., Monecke, K., Boyce, J., Ebel, J., Pilkington, P., Brabander, D. (2023): Correlating Multi-Proxy Data Across Multiple Basins in Walden Pond (Ma, USA): Evidence of Sudden Onset Events and Human Impact. *Geological Society of America (GSA) annual meeting, Pittsburgh, PA.*
- Monecke, K., Brabander, D., Boyce, J., Ebel, J., Hubeny, B., McCarthy, F. (2023): Towards a Long-Term Earthquake Record for Eastern Massachusetts: A Multiproxy Analysis of Deformation Features in Lake Sediments. *Northeastern and southeastern Geological Society of America (GSA) annual meeting, Reston, VA.*
- Foster, A. *, Calderon, A.*, Hayhow, C.*, Monecke, K., Brabander, D., Hubeny, B., McCarthy, F (2023): The Pre-European Sedimentary Record of Sluice Pond, Massachusetts: A Detailed Archive of Long-Term Trends and Instantaneous Sedimentation Events. *Northeastern and southeastern Geological Society of America (GSA) annual meeting, Reston, VA.*
- Nishimoto, M.*, Surpless, B., Monecke, K. (2022): Analyzing Normal Fault-Tip Damage Zone Geometries and Structures Using Virtual Outcrop Models. *Geological Society of America (GSA) annual meeting, Denver, CO.*

- Nishimoto, M.*, Calderon, A.*, Monecke, K., Brabander, D., Hubeny, B., McCarthy, F., (2022): Landscape Changes and Mass Wasting Events as Recorded in the Sediments of Sluice Pond, Massachusetts. *Northeastern Geological Society of America (GSA) annual meeting, Lancaster, PA.*
- Ebel, J., Monecke, K., Brabander, D., Hubeny, B., McCarthy, F. (2021): On the modern and possible prehistoric earthquake activity near Walden Pond, Massachusetts. *Northeastern Geological Society of America (GSA) annual meeting, Hartford, CT, virtual conference.*
- Thorne, D.*, Calderon, A.*, Davis, I.*, Douglass, A.*, Monecke, K., Brabander, D. (2021): In-Situ Fp-Xrf Sediment Core Analysis: Implications for Anthropogenic Metal Loadings Lake Waban, Ma. *Northeastern Geological Society of America (GSA) annual meeting, Hartford, CT, virtual conference.*
- Chen, A.*, Monecke, K., Brabander, D.J., Ebel, J., Hubeny, B., McCarthy, F. (2021): Morphology and Particle Size Across the Three Basins of Walden Pond - A Reconstruction of Landscape Changes and Mass Wasting Events of the Past 700 Years. *Northeastern Geological Society of America (GSA) annual meeting, Hartford, CT, virtual conference.*
- Monecke, K., Brabander, D.J., Hubeny, J. B. (2020): Origin and Transport of Clastic Lake Bottom Sediments in Walden Pond, Concord, Massachusetts, Using Particle Size and Elemental Composition. *Geological Society of America (GSA) annual meeting, Montreal, QC, virtual conference.*
- Ebel, J., Monecke, K., Brabander, D., Hubeny, B., McCarthy, F. (2020): On the modern and possible prehistoric earthquake activity near Walden Pond, Massachusetts., *Geological Society of America (GSA) annual meeting, Montreal, QC, virtual conference.*
- Hubeny, B., Veresh, R., Monecke, K., McCarthy, F., King, J. (2020): Late Quaternary Physical Stratigraphy of Walden Pond. *Geological Society of America (GSA) annual meeting, Montreal, QC, virtual conference.*
- Veresh, R., Hubeny, B., McCarthy, F., Monecke, K. (2020): High-Resolution Late Quaternary Isotope Record in Walden Pond. *Geological Society of America (GSA) annual meeting, Montreal, QC, virtual conference.*
- Newcombe, H.*, Hubeny, J. B., Knudstrup, R., Monecke, K., McCarthy, F. M.G. (2019): Late Pleistocene to Middle Holocene Paleolimnological Variability Preserved in the Sediments of Walden Pond, MA. *Northeastern Geological Society of America (GSA) annual meeting, Portland, ME.*

- Bryant, N. B.*, Solari, N. M.*, Sheraden-Cox, L.*, Monecke, K., Brabander, D. J., Hubeny, J. B. (2019): The Sedimentary Archive of Lake Waban- Multiproxy Analysis of Land Use Changes since the Pre- Industrial Era, *Northeastern Geological Society of America (GSA) annual meeting, Portland, ME.*
- Monecke, K., Brabander, D.J., Ebel, J., Hubeny, J.B., McCarthy, F.M.G. (2018): Multiproxy Analysis of Lake Sediments in Northeastern Massachusetts, USA - A 400-Year Long Record of Environmental Changes and Extreme Events. *American Geophysical Union (AGU) Fall Meeting, Washington, D.C.*
- Dennehy, S.R.*, Monecke, K., Meilianda, E., Pilarczyk, J., Rusydy, I. (2018): Spatial Variation of Thickness and Grain Size of Tsunami Sand Sheets Deposited in a Coastal Region in Aceh, Indonesia. *American Geophysical Union (AGU) Fall Meeting, Washington, D.C.*
- Monecke, K., Meilianda, E., Pilarczyk, J., Rusydy, I., Moena, A., Morgan, T.*, Muzhaffat, H., Rais, A., Yolanda, I. (2018): Spatial Distribution and Sedimentary Characteristics of Buried Sand Layers in Coastal Marshes, West Aceh, Indonesia. *Asia Oceania Geosciences Society (AOGS) annual meeting, Honolulu, HI.*
- Passaretti, M.*, Anaya, M.*, Wong, S.*, Monecke, K., Brabander, D. J., Hubeny, J.B., McCarthy, F. M.G. (2018): A Multiproxy Analysis of Sediment Cores from Walden Pond, Concord, MA: Investigating Natural Processes and Human Impacts. *Northeastern Geological Society of America (GSA) annual meeting, Burlington, VT.*
- Pilkington, P. M., Chen, R., Mitchell, J., Haj S., Farzaneh, Viscak, J., McCarthy, F.M.G., Knights, C.*, Newcombe, H.*, Hubeny, J. B., Monecke, K. (2018): Rise of the Green Algae: Algal Palynomorphs Record the History of Walden Pond. *Northeastern Geological Society of America (GSA) annual meeting, Burlington, VT.*
- Monecke, K., McCarthy, F.M.G., Ebel, J.E., Hubeny, J.B., Brabander, D.J., Knights, C.*, Passaretti, M.*, Pentesco, J.T., Pilkington, P.M. (2017): Multiproxy Analysis of Unusual Sedimentary Units of Possible Seismic Origin in the Lacustrine Records of Sluice and Walden Ponds, Eastern Massachusetts, USA. *Northeastern Geological Society of America (GSA) annual meeting, Pittsburgh, PA.*
- Pentesco, J. T., McCarthy, F. M.G., Brooks, G. R., Monecke, K., Hubeny, J. B., Ebel, J. E., Hughes, D., Garner, C. S. (2017): Palynofacies Analysis in Eastern North American Lakes Applied to Studies of Paleoseismicity. *Northeastern Geological Society of America (GSA) annual meeting, Pittsburgh, PA.*
- Knights, C.*, Hubeny, J. B., Monecke, K., McCarthy, F. M.G., Knudstrup, R., Passaretti, M.*, Stager, J. C. (2017): Paleolimnologic Variability of Multiple Lake Basins: Walden Pond, MA. *Northeastern Geological Society of America (GSA) annual meeting, Pittsburgh, PA.*

- Annadale, M. C.*, Hubeny, J. B., Monecke, K. (2017): Determining the Late Quaternary Geologic and Relative Sea Level History of Salem Harbor Using Dated Sediment Cores and Sub-Bottom Geophysics. *Northeastern Geological Society of America (GSA) annual meeting, Pittsburgh, PA.*
- Monecke, K., Meilianda, E., Walstra, D.-J., Hill, E., McAdoo, B., Qiang, Q., Storms, J., Setiawan, A., Masputri, A.S., Mayasari, C.D., Nasir, M., Riandi, I., Templeton, C.* (2016): Shoreline response to seismically induced land-level changes – A case study from West Aceh, Indonesia. *American Geophysical Union (AGU) Fall Meeting, San Francisco, CA.*
- Morgan, T.*, Monecke, K., Meilianda, E., Pilarczyk, J., Rusydy, I., Moena, A., Muzhaffat, H., Rais, A., Yolanda, I. P. (2016): Sedimentary Characteristics of Buried Sand Layers Deposited in a Coastal Swamp in West Aceh, Indonesia, in the Early 15th Century. *American Geophysical Union (AGU) Fall Meeting, San Francisco, CA.*
- Monecke, K., Meilianda, E., Hill, E., McAdoo, B., Qiang, Q., Storms, J., Walstra, D.-J., Setiawan, A., Masputri, A.S., Mayasari, C.D., Riandi, I., Nasir, M. (2016): Determining the Controlling Factors of Coastal Development along an Active Margin – A Case Study from Aceh, Indonesia. *European Geosciences Union (EGU) General Assembly. Vienna, Austria.*
- Monecke, K., Meilianda E., Rushdy, I., Moena, A., Yolanda, I. P. (2016): Potential Sedimentary Evidence of Two Closely Spaced Tsunamis on the West Coast of Aceh, Indonesia. *European Geosciences Union (EGU) General Assembly. Vienna, Austria.*
- Hubeny, J. B., Kielb, S.*, McCarthy, F. M.G., Monecke, K., Brabander, D. J. (2016): Urban Pond Archives Of Climate And Anthropogenic Activities: A Case Study On Sluice Pond, Lynn, MA. *Northeastern Geological Society of America (GSA) Annual Meeting. Albany, NY.*
- Monecke, K., Janigian, G. A.*, Ebel, J. E., Hubeny, J. B. (2015): Earthquake-Induced Deformation of Organic-Rich Lake Sediments in the Northeastern United States – Preliminary Results From Walden And Sluice Ponds. *Geological Society of America (GSA) Annual Meeting. Baltimore, MD.*
- Kielb, S.*, Hubeny, J. B., Vaillancourt, T. S., Monecke, K., McCarthy, F.M.G. (2015): Limnogeologic Record of Anthropogenic Alterations Preserved In Sluice Pond, Lynn Massachusetts. *Northeastern Geological Society of America (GSA) Annual Meeting, Bretton Woods, NH.*