

## **KATRIN MONECKE**

ASSOCIATE PROFESSOR AT THE DEPARTMENT OF GEOSCIENCES

WELLESLEY COLLEGE

106 CENTRAL STREET

WELLESLEY, MA 02481, USA

TEL.: ++1 (781) 283-3612

FAX: ++1 (781) 283-3642

EMAIL: KMONECKE@WELLESLEY.EDU

## **CURRICULUM VITAE**

---

### **EDUCATION**

- Apr 2000 - Jun 2004**      **PhD at the Department of Earth Sciences,  
Swiss Federal Institute of Technology (ETH), Zurich, Switzerland**  
Thesis: Earthquake-induced deformation structures in lake sediments - a  
Late Pleistocene to Holocene paleoseismic record for Central Switzerland
- Oct 1994 - Jul 1995**      **Visiting student at the University of Parma, Italy**
- Oct 1991 - Mar 1999**      **B.S. and M.S. at the Institute of Geology and Paleontology, University of  
Hannover in collaboration with the Federal Institute for Geosciences and  
Natural Resources (BGR), Hannover, Germany**  
Thesis: Mapping and facies analysis of Quaternary alluvial  
deposits along the southern Miristi Khola, Myagdi, Nepal
- 

### **PROFESSIONAL APPOINTMENTS**

- Since Jul 2012**      **Assistant/ Associate Professor**  
Geosciences Department, Wellesley College, MA
- Sep 2011 – Jun 2012**      **Instructor**  
Geosciences Department, Wellesley College, MA
- Aug 2008 – Apr 2011**      **Visiting Assistant Professor**  
Department of Geology and Planetary Sciences,  
University of Pittsburgh at Johnstown, PA
- Aug 2007- May 2008**      **Lecturer**  
Department of Geology, Kent State University, Kent, OH
- Mar 2007 - Jul 2007**      **Research Associate**  
Department of Earth Science and Geography,  
Vassar College, Poughkeepsie, NY
- Feb 2006 - Aug 2007**      **Postdoctoral Scientist**  
Department of Geology, Kent State University, Kent, OH

<b>May 2005 - Jan 2006</b>	<b>Postdoctoral Scientist</b> Institute for Aquatic Research (EAWAG), Zurich, Switzerland
<b>Jul 2004 - Apr 2005</b>	<b>Scientific Advisor</b> Department of Corporate Communications at ETH Zurich, Switzerland
<b>Apr 2000 - Jun 2004</b>	<b>Teaching Assistant</b> Geological Institute, ETH Zurich, Switzerland
<b>Jul 1996 - Sep 1999</b>	<b>Research Assistant/ Researcher</b> Department of Engineering Geology and Geotechnics, BGR, Germany

---

## MAIN RESEARCH ACCOMPLISHMENTS

**Tsunami hazard assessment in Aceh, Indonesia.** Together with a team of international researchers and relief workers, we discovered a 1,000 year sedimentary record of past tsunami inundation in West Aceh, Indonesia, an area that was severely hit by the 2004 Indian Ocean tsunami (publication 5). The evidence consists of buried sand sheets in coastal marshes. The combined results from this work and similar studies in Thailand provided the first evidence of precursors of the 2004 tsunami. I have continued to work in this region and have analyzed the long-term coastal growth pattern (publication 3) and applied coastal modeling software to the field data from Aceh to understand the mechanisms of coastal recovery after the 2004 tsunami (publication 2). The coastal growth patterns can give clues on past earthquake-induced land-level changes and provide useful information for seismic hazard assessment and coastal management. Several undergraduate students from US institutions as well as graduate students from Indonesian universities were involved in this work.

**Paleoseismic investigations in lacustrine environments.** Starting in 2000, I have studied earthquake-induced deformation structures in lake sediments in Central Switzerland. These investigations were successful in calibrating earthquake-induced deformation in lacustrine environments (Publication 8) and resulted in a comprehensive record of seismic activity in Central Switzerland for the last 10,000 years (Publications 6, 7). Continuing work refined this record and allowed the identification of potential seismic source areas and paleomagnitudes (Publication 4). I am currently applying the same methods to lake environments in New England, where large earthquakes have occurred in the past, but little is known about their recurrence intervals. We recently discovered the sedimentary record of the 1755 Cape Ann earthquake, the largest historic earthquake in New England in a kettle pond in northeastern Massachusetts (publication 1).

**Landslide hazard assessment in West Nepal.** I have mapped extensive debris flow deposits in the Kali Gandaki valley of West Nepal, which had previously been misidentified as glacial moraines (publications 9, 10). Recognition of such large-scale mass movement deposits heightens the awareness of the present landslide hazard in the foothills of the Himalayas.

**Nuclear waste disposal site investigations.** I was involved in mapping underground sites (salt mines, granite galleries) in Germany and Switzerland to evaluate their suitability for nuclear waste disposal (internal reports only).

## **CURRENT RESEARCH COLLABORATIONS**

### **North America**

JOHN EBEL, Weston Observatory, Weston, MA

BRAD HUBENY, Salem State University, Salem, MA

FRANCINE MCCARTHY, Brock University, St. Catharines, ON

Jessica Pilarczyk, University of Southern Mississippi, Stennis Space Center, MS

### **International**

ELLA MEILIANDA and IBNU RUSYDY, Tsunami and Disaster Mitigation Research Center (TDRMC), Banda Aceh, Indonesia

BRIAN MCADOO, Yale-NUS College, Singapore

JOEP STORMS and DIRK-JAN WALSTRA, Department of Geotechnology, Delft University of Technology, The Netherlands

---

## **FUNDING**

### **Spring 2016: Faculty Award, Wellesley College (\$2,890)**

Dating Geologic Evidence of Two Closely Spaced Tsunamis on the West Coast of Aceh, Indonesia.

**Winter 2015: National Science Foundation (NSF) (\$109,000) - Denied.** The Dynamics of Coastal Beach Ridge Plains and the Influence of Earthquakes and Tsunamis: A Geological Perspective.

### **Fall 2014: Faculty Award, Wellesley College (\$1160)**

The link between New England's whaling industry and earthquakes in Chile during the early 19<sup>th</sup> century.

### **Fall 2014: BOW Innovation Grant shared with Alexander Morrow, Olin College (\$3000)**

Development of a BOW GNSS Receiver having improved cost-to-accuracy.

### **Spring 2014: Faculty Award, Wellesley College (\$3000)**

Film Project: 10 Years After the 2004 Indian Ocean Tsunami - A Reflection on Life in Aceh, Indonesia

### **Summer 2013: Brachman Hoffman Small Grant, Wellesley College (\$5000)**

Coastal Growth Patterns after the 2004 Indian Ocean Tsunami - A Survey in Northern Sumatra.

### **Summer 2012: Faculty Award, Wellesley College (\$2500)**

Coastal Growth Patterns after the 2004 Indian Ocean Tsunami - A Survey in Northern Sumatra.

### **Spring 2009: Japan Studies Grant, Asian Studies Center, University of Pittsburgh (\$1,000)**

Presentation: *Coastal dynamics in northern Sumatra*, Tsunami Symposium in Tsukuba, Japan

### **Spring 2009: Student Travel Fund, Asian Studies Center, University of Pittsburgh (\$1,000)**

Coastal progradation patterns in Northern Sumatra after the destructive tsunami of 2004

### **Spring 2009: Mentorship Fund to support faculty-undergraduate research, UPJ (\$2,000)**

Coastal progradation patterns in Northern Sumatra after the destructive tsunami of 2004

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

A record of paleotsunamis in northwestern Sumatra, Indonesia

## TEACHING EXPERIENCE

### Since September 2011 as Instructor and Assistant Professor at Wellesley College

- Undergraduate classes at all levels of the curriculum including lab exercises and field trips in New England and Upper New York State  
*The Dynamic Earth, Evolution of Earth Systems through Time, Geomorphology, Sedimentology and Stratigraphy, Paleoseismology*

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

- Undergraduate classes including lab exercises and fieldtrips in western Pennsylvania, northern Ohio and coastal Maryland  
*The Earth's Climate, Sedimentology and Stratigraphy, Historical Geology, Geomorphology, Intro to Paleontology, Physical Geology*

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

- Undergraduate and graduate classes including lab exercises and local fieldtrips  
*Environmental Geology, Earth Dynamics, Earth History, Coastal Processes, Paleoseismology*

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

- Graduate and Undergraduate Classes  
*Geological Mapping, Sedimentary Petrography, Limnogeology, Field courses in the Jura Mountains and Swiss Alps*

---

## STUDENT RESEARCH PROJECTS

- MELANIE PASSARETTI (2017): A story in sediment – uncovering the history of Walden Pond
- TEMPESTT MORGAN (2016): Coastal Dynamics and the Influence of Earthquakes and Tsunamis - A geological study in Aceh, Indonesia.
- EMMA HOWEY and GRETA JANIGIAN (2015/16) Earthquake-Induced Deformation of sediment in Sluice Pond, Lynn, MA:
- SIERRA MICHAELSEN (2014): The history of bathymetric studies in Walden Pond, Concord, MA.
- IGLIKA B. ATANASSOVA (2014): Investigating the Earthquake History of New England in Fluvial and Lacustrine Environments.
- CAROLINE K. TEMPLETON (2013-14, honor thesis): Controlling Factors of Coastal Morphology in Aceh, Indonesia, since the 2004 Indian Ocean Tsunami
- KENNEDY STOMPS (2013): Grain size analysis as a powerful tool to determine sediment dynamics.
- LAUREN GOLDFARB (2013): Investigating the Earthquake History of New England in Lacustrine Environments.

- CAROLINE K. TEMPLETON (2012). Development of a Bathymetric Surveying Set-up for Lacustrine Environments.
- JOSIE LEUNG (2012): Exploring New England's Earthquake History – Sediment deformation features related to the 1755AD Cape Ann Earthquake
- BRIANNA BOXLER and ELLEN BECHTEL (2011/2012): Coastal progradation patterns in Northern Sumatra: An evaluation of Dutch Colonial Maps
- NEIL HOOD and FRANK KARMANOCKY (2009-2010): Coastal progradation patterns in Northern Sumatra as a tool in seismic hazard assessment
- BRYANT SHUE (2010): Prehistoric tsunami deposits in coastal lake records from the Pacific Northwest. *Best poster at Eighth Annual Student Night of the Association of Engineering & Environmental Geologists, Green Tree, PA.*
- ANDREW HUTSKY (2009): Facies Analysis of the Loyalhanna Limestone, Laurel Highlands, SW Pennsylvania
- MATT PETROWSKY (2009): Historical records of a 1400AD Indian Ocean Tsunami

---

#### **ANALYTICAL EXPERIENCE**

- Sedimentological field work
- Surveying with auto-levels and total stations
- Peat coring
- Grainsize measurements using MALVERN mastersizer, BECKMAN-COULTER Laser particle size analyser and RETSCH camsizer
- Coastal Change analysis using GIS
- Sedimentological analysis of lacustrine core samples
- GEOTECH multiscanner core analysis
- Gravity and piston coring in lakes (Kullenberg and UWITEC coring devices)
- High resolution seismics in lakes and seismic facies analysis

---

#### **PEER-REVIEWED PUBLICATIONS**

1. 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.
2. 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.

3. MONECKE, K., TEMPLETON, C.T., FINGER, W., HOUSTON, B.L., STEFAN M 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.
4. 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*.
5. 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.
6. 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.
7. 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.
8. 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.
9. MONECKE, K., WINSEMANN, J. & HANISCH, J. (2001): Climatic response of Quaternary alluvial deposits in the upper Kali Gandaki valley (West Nepal). *Global and Planetary Change*, 28: 293-302.
10. MONECKE, K., WINSEMANN, J. & HANISCH, J. (2000): Faziesarchitektur quartärzeitlicher Terrassenkörper des oberen Kali Gandaki Tals (West Nepal).-Z. *dt. geol. Ges.*, 151: 59-80.

---

## OTHER PUBLICATIONS

11. 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.
12. ANSELMETTI, F. S., HILBE, M., MONECKE, K., SCHNELLMANN, M. & STRASSER, M. (2011): Paléosismologie et géologie des lacs - Les sédiments des lacs alpins, archives de l'environnement. *Géochronique, Special Volume: Les Alpes vues par les géologues Suisses*.
13. MONECKE, K. & MATTERN, F. (1998): Das Kluftsystem im Bereich des Naturdenkmals "Saurierfährten Münchehagen". In: R. FISCHER (Ed.), Das Naturdenkmal "Saurierfährten Münchehagen", *Mitteilungen aus dem Geologischen Institut der Universität Hannover*, v. 37, p. 103-112, Hannover.
14. MATTERN, F., MAYER, M. & MONECKE, K. (1994): Die Klüfte im Sandstein der Bückeberg-Formation (Unterkreide) des Naturdenkmals "Saurierfährten Münchehagen", Salzstruktur "Rehburg". *Berichte der naturhistorischen Gesellschaft Hannover*, v. 136, p. 67-74, Hannover.

## PRESENTATIONS

1. 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, NY.*
2. 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, NY.*
3. 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, NY.*
4. 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, NY.*
5. 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.*
6. MORGAN, T., MONECKE, K., MEILIANDA, E., PILARCZYK, J., RUSYDY, I., MOENA, A., MUZHAFAT, 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 15<sup>th</sup> Century. *American Geophysical Union (AGU) Fall Meeting, San Francisco, CA.*
7. 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.*
8. 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.*
9. 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.*
10. MONECKE, K., JANIGIAN, G. A. ('15), 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.*

11. 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.*
12. KIELB, S., ATANASSOVA, I. ('15), HUBENY, J. B., MONECKE, K., MCCARTHY, F. M.G. (2014): Cultural Eutrophication of Sluice Pond, Lynn Massachusetts, Reconstructed from Stable Isotopes Preserved in Dated Sediment Cores. *Geological Society of America (GSA) Annual Meeting. Vancouver, BC, Canada.*
13. KATRIN MONECKE, K., TEMPLETON, C.K., FINGER, W., MCADOO, B.G., MEILIANDA, E., STORMS, J.E.A., WALSTRA, D.-J. R. (2014): Coastal changes in West Aceh, Indonesia, since the 2004 Indian Ocean tsunami. *5<sup>th</sup> UNESCO-International Geoscience Programme (IGCP) 588 meeting, Anchorage, Alaska.*
14. TEMPLETON, C., MONECKE, K., FINGER, W., MCADOO, B., MEILIANDA, E., STORMS, J.E.A., WALSTRA, D.-J. R. (2013): Morphological changes to the Acehnese coastline in Sumatra, Indonesia, since the 2004 Indian Ocean tsunami. *American Geophysical Union (AGU) Fall Meeting, San Francisco, CA.*
15. MONECKE, K., FINGER, W., MCADOO, B., MEILIANDA, E., AMNA, R., HOOD, N., HOUSTON, B., KARMANOCKY, F., NURJANAH, RUSYDI, I., SUDRAJAT, U., TEMPLETON, C. (2013): Beach Ridge Patterns in Aceh, Indonesia - Response to Large Earthquakes along the Northern Sunda Trench. *American Geophysical Union (AGU) Fall Meeting, San Francisco, CA.*
16. GOLDFARB, L., MONECKE, K., EBEL, J., HUBENY, B. (2013): Investigating the Earthquake History of New England in Lacustrine Environments. *Northeastern Geological Society of America (GSA) meeting, Bretton Woods, MA.*
17. BECHTEL, E., BOXLER, B., FINGER, W., LUTHI, S. M., MCADOO, B. G., MONECKE, K. (2012) Sinuosity of coastal rivers in northern Sumatra over the last 150 years: response to environmental changes and tectonic forcing. *Northeastern Geological Society of America (GSA) meeting, Hartford, CT.*
18. MONECKE, K.; FINGER, W.; HOOD, N.; HOUSTON, B.; KARMANOCKY, F.; LAVINE, M.; LUTHI, S.; MCADOO, B. G.; STORMS, J.; SUDRAJAT, S. U. (2010): Coastal Growth Patterns in Northern Sumatra as a Potential Tool in Seismic Hazard Assessment. *American Geophysical Union (AGU) Fall Meeting, San Francisco, CA.*
19. KARMANOCKY, F., HOOD, N., MONECKE, K., HOUSTON, B., FINGER, W., MCADOO, B., CUNNINGHAM, A., LUTHI, S., STORMS, J. & WALLINGA, J. (2010): Correlation of coastal growth patterns in northern Sumatra and large scale tectonic events along the Sunda trench. *Northeastern Geological Society of America (GSA) meeting, Baltimore/USA.*
20. *INVITED*: MONECKE, K., FINGER, W., KONGKO, W., MCADOO, B., MOORE, A. & SUDRAJAT, S. U. (2009): Spuren vergangener Tsunamis in Nordsumatra. *Geological Society Zurich, Switzerland.*
21. KARMANOCKY, F., HOOD, N., MONECKE, K., HOUSTON, B., FINGER, W., MCADOO, B., CUNNINGHAM, A., LUTHI, S., STORMS, J. & WALLINGA, J. (2009): Coastal Progradation in Northern Sumatra after the 2004 Sumatra-Andaman Earthquake and Tsunami. *Geological Society of America (GSA) annual meeting, Portland, OR/USA.*



22. *INVITED*: MONECKE, K., FINGER, W., KONGKO, W., MCADOO, B., MOORE, A. & SUDRAJAT, S. U. (2009): A rapidly prograding beach ridge plain in Northern Sumatra as an archive for past tsunamis. *Asia Oceania Geosciences Society (AOGS) annual meeting, Singapore.*
23. *INVITED*: MONECKE, K., FINGER, W., KONGKO, W., MCADOO, B., MOORE, A. & SUDRAJAT, S. U. (2009): A rapidly prograding beach ridge plain as an archive for past tsunamis. *Tsunami Symposium, National Research Institute for Earth Science and Disaster Prevention (NIED)/ United Nations Secretariat of the International Strategy for Disaster Reduction (UN/ISDR), Tsukuba/Japan.*
24. ANNE-CHRISTINE PFAFFEN , MICHI STRASSER, SYLVIA STEGMANN, KATRIN MONECKE, MICHAEL HILBE, ACHIM J. KOPF, CARSTEN SCHUBERT & FLAVIO S. ANSELMETTI (2009): Mud volcanism in Swiss lakes? A multimethod approach to investigate nature and evolution of suspicious lake floor structures in Lungernersee. *Swiss Sedimentologists Meeting, Fribourg/ Switzerland.*
25. *INVITED*: MONECKE, K., FINGER, W., KONGKO, W., MCADOO, B., MOORE, A. & SUDRAJAT, S. U. (2007): A paleotsunami record from marshlands in West Aceh Province, Indonesia. *American Geophysical Union (AGU) Fall Meeting, San Francisco, CA.*
26. MONECKE, K., BEITEL, J., MORAN, K., MOORE, A. (2006): Sedimentary characteristics of the 2004 Indian Ocean tsunami in Ban Talae Nok, southwestern Ranong province, Thailand. *American Geophysical Union (AGU) Fall Meeting, San Francisco, CA.*
27. BEITEL, J., MORAN, K., LYALL, K., MONECKE, K., GRILLI, S. (2006): Coastal Effects of the December 26<sup>th</sup> Tsunami on Ko Phra Thong, Thailand. *American Geophysical Union (AGU) Fall Meeting, San Francisco, CA.*
28. MONECKE, K., FINGER, W., KONGKO, W., MCADOO, B., MOORE, A. & SUDRAJAT, S. U. (2006): Sedimentary characteristics of the December 2004 Indian Ocean tsunami deposit and the potential of a long tsunami record in the ridge and swale region between Meulaboh and Calang, northern Sumatra. *Geological Society of America (GSA) annual meeting, Philadelphia/USA.*
29. DALAL, M., MONECKE, K, AND MOORE, A. (2006), Sedimentation from 2005 Hurricane Katrina on the Mississippi and Alabama Gulf Coast barrier islands. *Geological Society of America (GSA) annual meeting, Philadelphia/USA.*
30. MONECKE, K. & STURM M. (2005): Late Glacial to Holocene climate variability and anthropogenic impact as reflected in a high resolution sedimentary record from Baldegger See, Central Switzerland. *Sediment 2005, Bern, Switzerland + European Geosciences Union (EGU) General Assembly, Wien/Austria.*
31. MONECKE, K., ANSELMETTI, F. S., BECKER, A., STURM, M. & GIARDINI, D. (2004): Signature of historic and prehistoric earthquakes in lake sediments – paleoseismic investigations in central Switzerland. *International Geological Congress (IGC), Florence/ Italy.*
32. MONECKE, K., ANSELMETTI, F. S., BECKER, A., STURM, M. & GIARDINI, D. (2003): Small-scale deformation structures in Holocene lake sediments in central Switzerland as indicators of paleoearthquakes. *International Association of Sedimentologists (IAS) meeting, Opatija/Croatia.*

33. MONECKE, K., ANSELMETTI, F. S., BECKER, A., STURM, M. & GIARDINI, D. (2003): Signature of historic earthquakes in lake sediments of central Switzerland. *Sediment 2003, Wilhelmshaven/Germany + Swiss Sedimentologists Meeting, Fribourg/Schweiz + International Limnogeological Congress (ILIC), Tucson, AZ.*
34. *INVITED*: MONECKE, K. & SCHNELLMANN, M. (2002): Seeablagerungen als Zeugen einer bewegten Vergangenheit – auf den Spuren prähistorischer Erdbeben in der Zentralschweiz. *Geological Society Zurich, Switzerland.*
35. MONECKE, K., ANSELMETTI, F. S., BECKER, A., STURM, M. & GIARDINI, D. (2001): Sedimentary Patterns in Lake Lungern, Central Switzerland: a Potential Archive of the Regional Holocene Earthquake History. *European Geosciences Union (EGU) General Assembly, Strasbourg/France.*
36. MONECKE, K., ANSELMETTI, F. S., BECKER, A., STURM, M. & GIARDINI, D. (2001): Small-scale Deformation Structures in Holocene Lake Deposits of Central Switzerland: a Possible Indicator of Paleoequakes? *Int. Association of Sedimentologists (IAS) meeting, Davos/Switzerland.*
37. MONECKE, K. & WINSEMANN, J. (2000): Faziesarchitektur quartärzeitlicher Terrassenkörper im oberen Kali Gandaki Tal (West-Nepal): Hinweise auf die klimatische Entwicklung der letzten 50000 Jahre. *Deutsche Quartärtagung (DEUQUA), Bern, Switzerland.*
38. MONECKE, K. & WINSEMANN, J. (2000): Architecture of late quaternary alluvial terraces in the upper Kali Gandaki valley (W' Nepal): Climatic versus tectonic control. *Fluvial Archives Group (FLAG) meeting, Mainz/Germany.*

---

## OUTREACH

- |          |                                                                                                                                                                                                                                                                                                               |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 08/27/12 | MONECKE, K.: Coastal progradation patterns as a potential tool in seismic hazard hazard assessment. <i>Paleotsunami Workshop, Coastal Dynamics Research Institute (BPPT), Yogyakarta, Indonesia.</i>                                                                                                          |
| 08/29/12 | MONECKE, K.: Coastal progradation patterns as a potential tool in seismic hazard hazard assessment. <i>Paleotsunami workshop, Tsunami and Disaster Mitigation Research Center (TDMRC), Banda Aceh, Indonesia.</i>                                                                                             |
| 06/14/13 | MONECKE K.: Tsunami Hazard Assessment in Northern Sumatra, Indonesia. <i>Town hall meeting of Regional Planning Board, West Aceh (BAPPEDA Aceh Barat), Meulaboh, Indonesia.</i>                                                                                                                               |
| 10/11/14 | 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. <i>New England Intercollegiate Geological Conference (NEIGC) conference fieldtrip.</i> |
| 10/07/15 | MONECKE K.: Tsunami Hazard Assessment in Northern Sumatra, Indonesia. <i>Town hall meeting of Regional Planning Board, West Aceh (BAPPEDA Aceh Barat), Meulaboh, Indonesia.</i>                                                                                                                               |