ANDREW L. MOORE

Department of Geology
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EDUCATION

Ph.D., Department of Geological Sciences, University of Washington **1999**
Dissertation: *Combined use of clast-size measurements and wave-tank experiments to estimate Pleistocene tsunami size at Molokai, Hawaii*
Advisor: Dr. Brian F. Atwater

M.S., Department of Geological Sciences, University of Washington **1994**
Thesis: *Evidence for a Tsunami in Puget Sound 1000 Years Ago*
Advisors: Dr. Joanne Bourgeois and Dr. Brian F. Atwater

B.A., *Cum Laude*, Department of Geology, Carleton College **1990**
Graduated with distinction in Geology

PROFESSIONAL EXPERIENCE

Assistant Professor **2002-**
Department of Geology, Kent State University, Kent, OH

- Teaching *Environmental Geology*, *Oceanography*, *Coastal Processes*, *Field Geology*, *Fluvial Sediment Transport* and *Hydrology*.
- Continuing research on the mechanics of tsunami sedimentation and on the sedimentologic consequences of dam removal on the Cuyahoga River.

講師 (Lecturer) **2001**
Department of Civil Engineering, Tohoku University, Sendai, Japan

- Taught seminars on research paper composition and English language
- Continued research on estimating the size of the 1771 Meiwa tsunami in Okinawa, and sediment post-depositional processes following the 1999 Vanuatu tsunami.

Postdoctoral Researcher **1999-2001**
Disaster Control Research Center, Tohoku University, Sendai, Japan

- Studied tsunami deposits in Okinawa and Hokkaido to determine the size of historic and prehistoric tsunamis in Japan
- Performed wave-tank experiments to clarify the relationship between grain-size trends and tsunami size, and determine the distribution of force from an incoming tsunami
- Studied tsunami deposition and runup from the 26 November 1999 tsunami in Vanuatu

Instructor **1998**
Department of Civil Engineering, University of Washington, Seattle, WA

- Taught *Fluvial Sediment Transport* to senior engineering majors
- Increased field and laboratory exposure to a class with a strong math component.

Lecturer **1997**
Department of Geology, North Seattle Community College, Seattle, WA
- Co-taught summer course *Introduction to Geology* for non-science majors with Dr. Tracy Furutani.
- Substituted for Dr. Furutani as needed in his classes, 1997-98.

Field Researcher **1996**
International Tsunami Survey Team
Surveyed damage caused by the 17 February 1996 tsunami in Irian Jaya, Indonesia.
- Helped identify and describe tsunami deposits in several locations
- Aided coworkers with runup measurements when tsunami deposition was not present

Research Assistant **1995-1996**
Departments of Geological Sciences and Civil Engineering, University of Washington
- Constructed 50-foot wave tank at the Harris Hydraulic Facility
- Designed and built a bore generator for the tank
- Instrumented the tank to record wave velocity and height
- Researched advection of gravel-sized particles by tsunamis

Researcher **1995**
National Institute for Resources and the Environment, Tsukuba, Japan
- Adapted existing computer model for use as a tsunami simulation and used the model to evaluate several different scenarios for the 1000-year-old tsunami in Puget Sound
- Designed a finite difference model for the same tsunami to run on a spreadsheet

Geologist **1991-1992**
United States Geological Survey, Seattle, WA
- Documented sedimentological evidence for a tsunami in Puget Sound 1000 years ago
- Used the grain size of the sediment to estimate the size of the tsunami.

Teaching Assistant **1990-1997**
Department of Geological Sciences, University of Washington, Seattle, WA
- Developed and taught labs in *Physical Geology*, *Great Ice Ages*, *Evolution of the Earth*, *Geology of the Pacific Northwest*, *Depositional Environments*, *Stratigraphy*, and *Field Geology*.

PROFESSIONAL ACTIVITIES

Reviewer

Reviewed journal submissions for *Nature*, *Quaternary Research*, *GSA Bulletin*, and *Marine Geology* and grant proposals for the National Science Foundation.

HONORS AND AWARDS

2004 Glenn Frank departmental award for outstanding teaching, Kent State University
1998 Goodspeed departmental fellowship for teaching excellence, University of Washington
1998 NSF International Postdoctoral Fellowship to Japan
1998 USGS Coastal and Marine Geology Postdoctoral Fellowship (declined)

1995 Summer Institute attendee, National Science Foundation Japan Program
1989 Duncan Stewart departmental fellowship for academic excellence, Carleton College
1986 National Merit Scholarship

PUBLICATIONS

Journals:

Jaffe, B.E., Borrero, J.C., Prasetya, G.S., Dengler, Lori, Gelfenbaum, Guy, Hidayat, Rahman, Higman, Bretwood, Kingsley, Etienne, Lukiyanto, McAdoo, Brian, Moore, Andrew, Morton, Robert, Peters, Robert, Ruggiero, Peter, Titov, Vasily, Kongko, Widjo, and Yulianto, Eko, in review, The December 26th 2004 Indian Ocean tsunami in northwest Sumatra and offshore islands: **Earthquake Spectra**, special issue

Moore, A., McAdoo, B., and Ruffman, A., in press, Systematic grain size variation in the 1929 Grand Banks tsunami deposit, Taylor's Bay, Newfoundland, invited submission to a theme issue on tsunami deposits in **Sedimentary Geology**.

Moore, A., Nishimura, Y., Gelfenbaum, G., and Kamataki, T., 2006, Sedimentary deposits of the 26 December 2004 tsunami on the northwest coast of Aceh, Indonesia, **Earth, Planets, and Space,** v. 58, p. 253-258.

Atwater, B. F., Furukawa, R., Hemphill-Haley, E., Ikeda, Y., Kashima, K., Kawase, K., Kelsey, H.M., Moore, A.L., Nanayama, F., Nishimura, Y., Odagiri, N., Ota, Y., Park, S.-C., Satake, K., Sawai, Y., and Shimokawa, K., 2004, Seventeenth-century uplift in eastern Hokkaido, Japan, **The Holocene**, v. 14, p. 487-501. [Authors listed alphabetically].

Moore, A., 2003, Tsunami Deposits, *in* **Encyclopedia of Sedimentology and Sedimentary Rocks**, Gerald Middleton, ed., Kluwer Academic Press, Dordrecht, The Netherlands, 928 p.

Koshimura, S., Mofjeld, H., González, F., and Moore, A., 2002, Modeling the 1100 bp paleotsunami in Puget Sound, Washington, **Geophysics Research Letters**, v. 29.

Imamura, F., Yoshida, I., and Moore, A., 2001, Numerical simulation of boulder movement by the 1771 Meiwa tsunami on Ishigakijima, **Japan Coastal Engineering Journal**, v. 48, p. 346-50.

Moore, A., Imamura, F., Yoshida, I., and Hayakawa, T., 2001, Reappraisal of the maximum runup of the 1771 Meiwa tsunami on Ishigakijima, **Tsunami Engineering**, v. 18, p. 53-60.

Imamura, F., Yoshida, I., and Moore, A., 2001, Numerical simulation of boulder movement by the 1771 Meiwa tsunami on Ishigakijima, **Tsunami Engineering**, v. 18, p. 61-72.

Caminade, J.P., D. Charlie, U. Kanoglu, S. Koshimura, H. Matsutomi, A. Moore, C. Ruscher, C. Synolakis, and T. Takahashi, 2001, Vanuatu survey data aids study of earthquake and tsunami, **Earth in Space**, v. 13, n. 8, p. 1-16. [I am the correspondence author on this paper; by agreement, authors are listed alphabetically].

Caminade, J.P., D. Charlie, U. Kanoglu, S. Koshimura, H. Matsutomi, A. Moore, C. Ruscher, C. Synolakis, and T. Takahashi, 2000, Vanuatu earthquake and tsunami cause much damage,

few casualties, **Eos**, v. 81, n. 52, p. 641, 646-647. [I am the correspondence author on this paper; by agreement, authors are listed alphabetically].

Moore, Andrew L., 2000, Landward fining in onshore gravel as evidence for a late Pleistocene tsunami on Molokai, Hawaii, **Geology**, v. 28, p. 247-250.

Moore, James G., Wilfred B. Bryan, George Moore, Andy Moore, and Barbara Keating, 1997, Giant-wave deposits on Lanai and Molokai, **Guide to accompany GSA Cordilleran Section field trip to Lanai and Molokai**, May 28-29, 1997.

Imamura, F., D. Subandono, G. Watson, A. Moore, T. Takahashi, H. Matsutomi, R. Hidayat, and Y. Tsuji, 1997, The 1996 Irian Jaya earthquake, tsunami, and its damage, **Eos, Transactions of the American Geophysical Union**, v. 78, n. 19, p. 197, 201.

Atwater, B.F. and A.L. Moore, 1992, A tsunami about 1000 years ago in Puget Sound, Washington, **Science**, v. 258, p. 1614-1617.

Abstracts:

Jaffe, B., Borrero, J., Prasetya, G., Dengler, L., Gelfenbaum, G., Hidayat, R., Higman, B., Kingsley, E., Lukianto, McAdoo, B., Moore, A., Morton, R., Peters, R., Ruggiero, P., Titov, V., Kongko, W., Yulianto, E., 2005, Field Survey of the effects of the 26 December 2004 and 28 March 2005 Tsunamis and Earthquakes in Indonesia, **Transactions of the American Geophysical Union**.

Moore, A., 2005, How do deposits from the 2004 tsunami in Sumatra change our views of tsunami deposition? **GSA Abstracts with Programs**, v. 37.

Moore, A., Gelfenbaum, G., Kamataki, T., and Nishimura, Y., 2005, Sedimentation from the 26 December 2004 South Asia tsunami in northern Sumatra, Indonesia, **GSA Abstracts with Programs**, v. 37.

Woodward, S., Nishimura, Y., Hirakawa, K., and Moore, A., 2005, Landward fining in late Holocene tsunami deposits from southeastern Hokkaido, **GSA Abstracts with Programs**, v. 37.

Jovanelly, T., and Moore, A., 2005, Tsunami origin for an 1,100-year-old enigmatic sand sheet in Lynch Cove, Puget Sound, Washington, USA, **GSA Abstracts with Programs**, v. 37.

Moore, A., Hacker, D., Holm, D., 2004, Role of geology road logs in teaching field geology, **GSA Abstracts with Programs**, v. 36, n. 5.

Holm, D., Hacker, D., Moore, A., 2004, Integrating geology course and labs with geologic mapping in the field, **GSA Abstracts with Programs**, v. 36, n. 5.

Smith, A., Gilbert, A., Moore, A., 2004, Developing an inquiry-based approach to educating pre-service teachers in environmental geology, **GSA Abstracts with Programs**, v. 36, n. 5.

Moore, A. and McAdoo, B., 2004, Tsunami deposit from the 1929 Grand Banks submarine landslide, Taylor's Bay, Newfoundland, **AGU Western Pacific Geophysics Meeting**, Honolulu, Hawaii, August 14-18, 2004.

McAdoo, B. and Moore, A., Ruffman, A., and Minder, J., 2004, Sediment grain size variation in deposits from the 1929 Grand Banks tsunami, Taylor's Bay, Newfoundland, **32nd International Geological Congress**, Florence, Italy, August 20-28, 2004.

McAdoo, B. G., Minder, J., Moore, A., and Ruffman, A., 2003, Tsunami deposits from the 1929 Grand Banks earthquake and submarine landslide, Taylor's Bay, Newfoundland, **GSA Abstracts with Programs** v. 35, n. 3

Moore, A. Jovanelly, T., Imamura, F., and Koshimura, S., 2002, Hydraulic inferences from tsunami deposits associated with the 26 November 1999 Vanuatu tsunami, **Tsunami Risk and Its Reduction in the Asia Pacific Region**, Bandung, Indonesia, March 18-19, 2002

Moore, A.L., 2001, Grain-size trends in a Holocene tsunami deposit from Cultus Bay, Puget Sound, Washington, **International Tsunami Symposium**, Seattle, Washington, August 7-10, 2001.

Moore, A., C. Petroff, and H. Árnason, 2001, Particle advection by turbulent bores, **International Tsunami Symposium**, Seattle, Washington, August 7-10, 2001.

Koshimura, Shun-ichi, Andrew Moore, and Harold Mofjeld, 2001, Simulation of paleotsunamis in Puget Sound, Washington, **International Tsunami Symposium**, Seattle, Washington, August 7-10, 2001.

Japan-US Field Survey Team, 2001, Episodic Holocene uplift resolves conflict between geodesy and geology along the subduction zone off Hokkaido, **Seismological Society of America**.

Ruscher, C., C. Synolakis, H. Matsutomi, J.P. Caminade, U. Kanoglu, T. Takahashi, A. Moore, D. Charlie, and S. Koshimura, 2000, The November 26, 1999 Vanuatu tsunami, **Eos, Transactions of the American Geophysical Union**.

Moore, A.L. and F. Imamura, 2000, Ancient tsunami surged higher than 40 meters on Ishigakijima, Okinawa, Japan [abstract], **GSA Abstracts with programs**, v. 32.

Moore, A.L., Imamura, F., Matsutomi, H., Synolakis, C., Takahashi, T., and Koshimura, S., 2000, Report on the damage caused by the 26 November 1999 tsunami in Vanuatu [abstract], **South Pacific Applied Geoscience Commission 29th Annual Session.**

Matsutomi, H., S. Koshimura, T. Takahashi, A. Moore, F. Imamura, Y. Kawata, and M. Matsuyama, 2000, Field survey of the 1999 Vanuatu earthquake and tsunami [abstract], **Proceedings of the Japan Society of Civil Engineers**.

Moore, A.L. and F. Imamura, 2000, Sand deposition from the 1999 Vanuatu tsunami [abstract], **Eos, Transactions of the American Geophysical Union**, v. 81

Moore, Andrew, Fumihiko Imamura, and Shun-Ichi Koshimura, 2000, Evidence for a sandy tsunami deposit in western Ishigakijima, Japan [abstract], **Hazards 2000, the 8th International Symposium on Natural and Technological Hazards**, p. 129.

Moore, A.L., 1999, Evidence for a sandy tsunami deposit in western Ishigakijima, Okinawa, Japan [abstract], **GSA Abstracts with programs**, v. 31

Petroff, C., A. Moore, and H. Arnason, 1998, Characteristics of large object movement in bores [abstract], **26th International Conference on Coastal Engineering**, Copenhagen, Denmark.

Moore, A.L., 1997, Landward fining in a tsunami-deposited gravel on Molokai, Hawaii [abstract], **GSA Abstracts with programs**, v. 29, n. 5, p. 53.

Moore, A.L., F. Imamura, and T. Takahashi, 1996, No landward fining in a tsunami deposit from Biak, Indonesia [abstract], **Eos, Transactions of the American Geophysical Union**, v. 77

Moore, A.L. and D.C. Mohrig, 1994, Size estimate of a 1000-year-old Puget Sound tsunami [abstract], **GSA Abstracts with programs**, v. 26, n. 7, p. 522.

Dooley, A.C. and A.L. Moore, 1994, Method for the remote determination of paleocurrents [abstract], **GSA Abstracts with programs**, v. 26, n. 7, p. 493.

Atwater, B.F. and A.L. Moore, 1993, A tsunami about 1000 years ago in Puget Sound, Washington, *in* **CANQUA 93; applied Quaternary research; program with abstracts and field guide**. Canadian Quaternary Association, p. A1.

Moore, A.L., 1992, A Puget Sound source for a large wave 1100 years ago [abstract], **GSA Abstracts with programs**, v. 24, n. 5, p. 71.

Moore, A.L., 1991, Evidence for a tsunami in Puget Sound 1100 years ago [abstract], **Eos, Transactions of the American Geophysical Union**, v. 72, p. 315.