

Kathryn Moran

Professional Preparations



B.Sc., 1977, Civil Engineering, University of Pittsburgh
M.Sc., 1980, Ocean Engineering, University of Rhode Island
Ph.D., 1995, Civil Engineering, Dalhousie University

Appointments

2006 Associate Dean, Graduate School of Oceanography
2006 Professor, Graduate School of Oceanography & Dept. of Ocean Engineering
2001 Director, Marine Geomechanics Laboratory, URI
2001-2006 Associate Professor, Graduate School of Oceanography & Dept. of Ocean Engineering, University of Rhode Island (URI)
1998 - 2000 Director, Ocean Drilling Programs, Joint Oceanographic Institutions

1997 - 2000 Adjunct Professor, Faculty of Graduate Studies, Dalhousie Univ.
1983 - 1998 Research Engineer, Geological Survey of Canada
1981 - 1983 Geotechnical Engineer, M.J. O'Connor Associates, Calgary, Alberta

Selected Recent Publications

Moran, K., Tappin, D., Grilli, S. and the SEATOS Science Party, Sumatra Earthquake And Tsunami Offshore Survey (SEATOS) 2005 Cruise Report, June, 2005.
Backman, J., Moran, K., McInroy, D.B., Mayer, L.A., and the Expedition Scientists. 2006, Proc. IODP, Exp. Rep. 302. (Integrated Ocean Drilling Program Management International, Inc., College Station TX, 2006).
Moran, K., Backman, J. and Farrell, J., 2006, Deepwater drilling in the Arctic Ocean's permanent sea ice, in Proc. IODP, Exp. Rep. 302. (Integrated Ocean Drilling Program Management International, Inc., College Station TX).
Paulson, M., Moran, K., Lengkeek, M., Jeffery, P., Frazer, A., Scholz, C., 2006, Scientific Drilling and Coring in Lake Malawi, Africa, Paper No. OTC 18117, Proceedings of the Offshore Technology Conference, Houston, May.
Moran, K., Backman, J. and Farrell, J.W., 2006, The Arctic Coring Expedition: Drilling at the Top of the World, Paper No. OTC 18114, Proceedings of the Offshore Technology Conference, Houston, May.
Moran, K., Backman, J. et al., 2006, The Cenozoic palaeoenvironment of the Arctic Ocean, Nature, Vol 441, 1 June 2006, doi:10.1038/nature04800.
Sluijs, A., Schouten, S., Pagani M., Woltering, M., Pedentchouk, N., Brinkhuis, H., Sinninghe Damsté, J., Dickens, G., Huber, M., Reichert, G-J., Stein, R., Matthiessen, J., Lourens, I., Backman, J., Moran, K. and the Expedition Scientists, 2006, Subtropical Arctic Ocean temperatures during the Palaeocene Eocene thermal maximum, Nature. Vol 441, 1 June 2006, doi:10.1038/nature04668.
Brinkhuis, H., Schouten, S., Collinson, M., Sluijs, A., Sinninghe-Damsté, S., Dickens, G., Huber, M., Cronin, T., Onodero, J., Takahashi, K., Bujak, J., Stein, R., van der Burgh, J., Matthiessen, J., Eldrett, J., Harding, I., Lotter, A., Sangiorgi, F., de Leeuw, J. Backman, Moran, K. and the Expedition

Scientists, 2006, Episodic fresh surface waters in the early Eocene Arctic Ocean, Nature. Vol 441, 1 June 2006, doi:10.1038/nature04692.

Moran, K., Paulson, M., Lengkeek, M., Jeffery, P. and Frazer, A., 2006, Scientific Deep Water Drilling in Lake Malawi, Africa, Journal of the Marine Technology Society.

Wang, J., Moran, K., and Baxter, D.P., in press, Correlation between the Shear Wave Velocity and the Liquefaction Resistance of Offshore Saturated Sands and Silts, ASCE Journal of Geotechnical and Geoenvironmental Engineering.

Moran, K. and Altmann, V., O'Regan, M., and Ashmankas, C., in press, Acoustic Compressional Wave Velocity as a Predictor of Glacio-marine Sediment Grain Size, ASTM Geotechnical Testing Journal.

Synergistic Activities

Member, Board of Directors, The Oceanography Society (2007 to)

Member, UNOLS, Arctic Icebreaker Coordinating Committee (2006 to)

Member, ORION Engineering Committee (2005 to)

Co-Chair, Integrated Ocean Drilling Program Technical Advisory Panel (2002 to 2005).

Board Member, Partnership on Ocean Instrumentation, Univ. of Rhode Island (2004 to)

Participate in ADVANCE activities to increase the number and retention of women in science and engineering. Actively recruit women graduate students (currently advise 2 women graduate students)

Registered Professional Engineer

Participated in the development of a new interdisciplinary graduate course on Ocean Modeling that is joint-listed in the College of Engineering and the Graduate School of Oceanography

Joint Oceanographic Institutions Distinguished Lecturer 2005-2006

Invited speaker to the National Academy of Sciences, May 2005.

Collaborators

Prof. Jan Backman, Prof., Univ. of Stockholm, Sweden

Dr. Henk Brinkhuis, Utrecht Univ., The Netherlands

Dr. Larry Mayer, Prof. and Director, Center for Coastal and Ocean Mapping, Univ. of New Hampshire

Dr. David C. Mosher, Research Scientist, Geological Survey of Canada

Dr. David Tappin, Research Scientist, British Geological Survey

Graduate Advisors

Prof. Hans Vaziri, Univ. of Western Ontario

Prof. Geoff Meyerhof, Dalhousie University (deceased)

Prof. Armand Silva, Emeritus, URI

Thesis Advisor

Veith Altmann, M.S., 2003, Civil Engineering

Cristin Ashmankas, Ph.D. Candidate, Graduate School of Oceanography

Jacqueline Beitel, M.S. Candidate, Ocean Engineering

Jason Fahy, M.S. Candidate, Ocean Engineering

Jennifer Henderson, M.S. 2004, Ocean Engineering

Matthew O'Regan, Ph.D. 2006, Graduate School of Oceanography

Meghan Paulson, M.S. 2007, Ocean Engineering

Ines Waltham, M.S., 2004, Ocean Engineering