

TIMOTHY T. EATON

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PROFESSIONAL PREPARATION

Ph.D., Geology, University of Wisconsin-Madison, 2002
M.S. Water Resources Management, University of Wisconsin-Madison, 1993
D.E.S.S. Applied Envi. Science/Resource Mgt., Université Paris VII (Jussieu), 1991
Maîtrise, Applied Envi. Science/Resource Mgt., Université Paris VII (Jussieu), 1990
B.A., Environmental Sciences/French Lang. and Literature, University of Virginia, 1989

PROFESSIONAL EXPERIENCE AND AFFILIATIONS

2004-present: Assistant Professor, Earth and Environmental Sciences, Queens College - City University of New York, Flushing, NY

1993-2004: Associate Geological Survey Specialist/Hydrogeologist, Wisconsin Geological and Natural History Survey, Madison, WI

Sigma Xi Scientific Research Society, elected 2006

AIPG Certified Professional Geologist (CPG-10637), 2001

American Institute of Professional Geologists

American Geophysical Union

National Ground Water Association

Geological Society of America

International Association of Hydrogeologists

RELEVANT PUBLICATIONS

Eaton, T.T. 2009. Engaging students and evaluating learning progress in an introductory environmental science course. *Journal of Geoscience Education* 57(2) March issue

Eaton, T.T. and C. Yi. 2008. Hydroperiod and hydraulic loading for treatment potential in urban tidal wetlands. *Hydrology and Earth System Science Discussions** 6: 1-37

Eaton, T.T., C. Cranganu, and F. Nitsche. 2007. Resistivity profiling and GPR for characterization of urban fill and buried infrastructure. *GSA Abstracts w/Programs* Vol.39, No.6

Eaton, T.T. 2007. Analytical estimates of hydraulic parameters for an urbanized estuary – Flushing Bay. *Journal of Hydrology* 347(1-2): 188-196, doi 10.1016/j.jhydrol.200709/018

Eaton, T.T., M.P. Anderson, and K.R. Bradbury. 2007. Fracture control of ground water flow and water chemistry in a rock aquitard. *Ground Water*. doi: 10.1111/j.1745-6584.2007.00335.x

Eaton, T.T., Y. Zheng, J. Bobbins, and S. Dutta. 2006. Hydrology and water quality in a heavily urbanized estuary—Flushing Bay. *GSA Abstracts w/Programs* Vol.38, No.7

Eaton, T.T. 2006. On the importance of geological heterogeneity for flow simulation. *Sedimentary Geology* 184(3-4): 187-201

OTHER PUBLICATIONS

Eaton, T.T. and K.R. Bradbury. 2003. Hydraulic transience and the role of bedding fractures in a bedrock aquitard, southeastern Wisconsin, USA, *Geophysical Research Letters* 30(18). doi:10.1029/2003GL017913

- Cherry, J.A., B.L. Parker, K.R. Bradbury, T.T. Eaton, M.B. Gotkowitz, D.J. Hart, and M.A. Borchardt. 2006. *Contaminant Transport Through Aquitards: A State of the Science Review*, American Water Works Association Research Foundation Report 91133a, 126 p.
- Bradbury K.R., M.B. Gotkowitz, D.J. Hart, T.T. Eaton, J.A. Cherry, B.L. Parker, M.A. Borchardt. 2006. *Contaminant Transport Through Aquitards: Technical Guidance for Aquitard Assessment*, American Water Works Association Research Foundation Report 91133b, 144 p.
- Feinstein, D.T., T.T. Eaton, D.J. Hart, J.T. Krohelski and K.R. Bradbury. 2005a. *Regional aquifer model for southeastern Wisconsin - Report 1: Data collection, conceptual model development, numerical model construction and model calibration*. Technical Report 41, Southeastern Wisconsin Regional Planning Commission, 81p.
- Feinstein, D.T., D.J. Hart, J.T. Krohelski, T.T. Eaton and K.R. Bradbury. 2005b. *Regional aquifer model for southeastern Wisconsin - Report 2: Model results and interpretation*. Technical Report 41, Southeastern Wisconsin Regional Planning Commission, 63 p.

SYNERGISTIC CURRENT RESEARCH SUPPORT AND ACTIVITIES

1. Design of constructed wetland in Flushing Meadows Corona Park to treat runoff from MTA trainyard, with Roux Associates, NYCDEP, and NYC Parks and Recreation
2. Funded Research: Nurture New York's Nature/CUNY Program for Ecological/Environmental Research (PEER) Grant–Round 2 “Hydrologic Transformation in the Flushing Estuary Ecosystem” Oct. 2005-Dec 2006 -\$30,000
3. Guest Editor, 2006 special issue *Sedimentary Geology* 184(3-4): Heterogeneity in Sedimentary Aquifers: Challenges for Characterization and Flow Modeling.
4. Taught ENSCI111 Introduction to the Environment, large introductory course (120 students) designed for recruiting SEES majors, innovative collaborative exams
5. Taught GEOL768, Wetlands, Soils and Bioremediation, including field trips to Flushing Meadows Corona Park, Staten Island Bluebelt and Alley Pond wetlands
6. Taught GEOL746, Groundwater Hydrology and GEOL745 Hydrology graduate courses at Queens College CUNY
7. Taught GEOL761, Field Hydrology graduate course at Queens College CUNY, taking students to locations around Queens and Long Island for stream gaging, well testing, water chemistry sampling, assessment of urbanization on runoff.

COLLABORATORS

Yi, C., Ludman, A., Zheng, Y., Waldman, J., Bird, J.
Queens College – City University of New York
Nitsche, F., Lamont Doherty Earth Observatory, Columbia University
Cherry, J., Parker, B., University of Waterloo, Waterloo, Ontario
Zhang, P., City College – City University of New York
Cranganu, C.; Boger, R., Brooklyn College – City University of New York

GRADUATE ADVISORS

Anderson, M.P., Univ. of Wisconsin-Madison, Dept. of Geology and Geophysics
Bradbury, K., Wisconsin Geological and Natural History Survey, Madison, WI

THESIS ADVISOR Kaplan L (MS), Yilmaz, M (MA), Hartig, E (PhD), students at Queens College – CUNY