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EDUCATION:

NORTHWESTERN UNIVERSITY, Evanston, Illinois.
Ph.D. in Civil Engineering: June 2003

WAYNE STATE UNIVERSITY, Detroit, Michigan.
M.S. in Civil Engineering: December 1992

UNIVERSITY OF BUENOS AIRES, Buenos Aires, Argentina.
Civil Engineer: April 1990

EXPERIENCE:

ASSISTANT PROFESSOR
University of Notre Dame, Notre Dame, Indiana. 1/2004-present.

POST-DOCTORAL RESEARCH FELLOW
Northwestern University, Evanston, Illinois. 6/2003-12/2003

RESEARCH CONSULTANT
Metcalf & Eddy, 2003 (part time)

RESEARCH ASSISTANT
Northwestern University, Evanston, Illinois. 1998-2003.

ENVIRONMENTAL ENGINEERING CONSULTANT
Harza Engineering Company (now Montgomery Watson Harza), Chicago, Illinois. 1992-1997.

ENVIRONMENTAL ENGINEERING CONSULTANT
Ayres, Lewis, Norris & May, Inc., Ann Arbor, Michigan. 1990-1992.

ENGINEERING ASSISTANT
Ann Arbor Wastewater Treatment Plant, Ann Arbor, Michigan 1990.

ACADEMIC AWARDS AND HONORS:

BATTELLE STUDENT PAPER AWARD, Battelle Bioremediation
Symposium, Orlando, 2003.

RESEARCH POSTER AWARD, Northwestern University Materials Research
Science and Engineering Center, 2003.

SCHOLARSHIP for “E.C.–U.S. Molecular Biology for the Environment.” Competitively selected by U.S. Biotechnology Task Force for course in Madrid in February 2003. Sponsored by DOE and the European Union.
ABEL WOLMAN DOCTORAL FELLOWSHIP, American Water Works Association, 2001-2003

ASCE GRADUATE STUDENT SCHOLARSHIP, American Society for Civil Engineers, Illinois Chapter, 2001

MURPHY FELLOWSHIP, Northwestern University, 1997

PUBLICATIONS:

Bruce E. Rittmann, **Robert Nerenberg**, Kuan-Chun Lee, Issam Najm, Thomas E. Gillogly, Geno E. Lehman, Samer S. Adham (2004). Hydrogen-Based Hollow-Fiber Membrane Biofilm Reactor (MBfR) for Removing Oxidized Contaminants (*Water Science and Technology* 4:1:127-133).

Robert Nerenberg, Bruce E. Rittmann, and Issam Najm (2002). Perchlorate Reduction in a Hydrogen-Based Membrane-Biofilm Reactor. *Journal of the American Water Works Association* 94:11:103-114

Robert Nerenberg and Bruce E. Rittmann (2002). Perchlorate as a Secondary Substrate in a Denitrifying Hollow-Fiber Membrane Biofilm Reactor. *Water Science and Technology: Water Supply* 2:2:259-265

Robert Nerenberg, Bruce E. Rittmann, and William Soucie (2000). Ozone/Biofiltration for Removing MIB and Geosmin. *Journal of the American Water Works Association* 92:12:85-95

Robert Nerenberg, Bruce E. Rittmann*. Reduction of oxidized water contaminants with a hydrogen-based, hollow-fiber membrane biofilm reactor. *Water Science & Technology*. Accepted for publication.

Robert Nerenberg, Yasunori Kawagoshi, Bruce E. Rittmann. Chlorate as an inhibiting intermediate for a novel, perchlorate-reducing, hydrogen-oxidizing autotroph (*submitted*)

Robert Nerenberg, Bruce E. Rittmann. Kinetics of autotrophic, perchlorate reduction with chlorate as an inhibiting intermediate (*in preparation*)

Robert Nerenberg, Yasunori Kawagoshi, Bruce E. Rittmann, Thomas E. Gillogly, Geno E. Lehman, Samer S. Adham. Microbial Ecology of a Mixed-culture Perchlorate-Reducing, Denitrifying Hollow-fiber Membrane Biofilm Reactor (*in preparation*)

CONFERENCES:

Bruce Rittmann*, **Robert Nerenberg**, Beverley Stinson, Dimitrios Katehis, Echo Leong, and James Anderson (2004). Hydrogen-Based Membrane Biofilm Reactor for Wastewater Treatment. IWA Leading Edge Technologies Conference, Prague, Czechoslovakia. Eight pages.

James Anderson, Beverley Stinson*, Bruce Rittmann, and **Robert Nerenberg*** (2004). Innovative Biofilm Membrane Reactor for Emerging Contaminants and Nitrogen Removal from Wastewater. Proceedings of New York Water Environment Association Annual Conference. New York, NY. Eight pages.

Robert Nerenberg*, Bruce E. Rittmann, Yasunori Kawagoshi, Thomas E. Gillogly, Geno E. Lehman, Samer S. Adham (2003). Microbial Ecology of a Perchlorate-Reducing, Hollow-Fiber Membrane Biofilm Reactor. American Society for Microbiology Biofilms 2003 Conference. Victoria, Canada.

Robert Nerenberg, Bruce E. Rittmann*. Reduction of oxidized water contaminants with a hydrogen-based, hollow-fiber membrane biofilm reactor. IWA Biofilm Congress, Cape Town, South Africa.

Robert Nerenberg*, Bruce E. Rittmann, Thomas E. Gillogly, Geno E. Lehman, Samer S. Adham (2003). Perchlorate reduction using the Hollow-Fiber Membrane Biofilm Reactor: Kinetics, Microbial Ecology, and Pilot-Scale Studies. *Battelle In Situ and On-Site Bioremediation Symposium*. Orlando, FL. Proceedings on CD-ROM, 8 pages.

Yasunori Kawagoshi*, **Robert Nerenberg**, and Bruce E. Rittmann. Bacterial community of perchlorate reducing, denitrifying hollow-fiber membrane biofilm reactor (2003). Japan Society on Water Environment. Prefectural University of Kumamoto, Kumamoto, Japan. Abstract.

Bruce E. Rittmann*, **Robert Nerenberg**, Kuan-Chun Lee, Issam Najm, Thomas E. Gillogly, Geno E. Lehman, Samer S. Adham (2002). Hydrogen-based, Hollow Fiber Membrane Biofilm Reactor (HFMBfR) for Removing Oxidized Contaminants. International Specialized Conference for Densely Populated Urban Areas, Hong Kong, China. Nine Pages.

Robert Nerenberg* and Bruce E. Rittmann (2002). Hydrogen-based, hollow fiber membrane biofilm reactor for reduction of oxidized contaminants. AEESP 2002 Education and Research Conference. Toronto, Canada. Abstract.

Bruce E. Rittmann, **Robert Nerenberg** Thomas E. Gillogly*, Geno E. Lehman, Samer S. Adham (2002). Membrane Biofilm Reactors for Perchlorate

Removal. *Microfiltration III Conference*, Contra Costa, CA. Abstract.

Robert Nerenberg* and Bruce E. Rittmann (2001). Perchlorate as a Secondary Substrate in a Denitrifying Hollow-Fiber Membrane Biofilm Reactor. *International Water Association Berlin 2001 Conference*, Berlin, Germany, conference proceedings on CD-ROM, 8 pages.

Robert Nerenberg* and Bruce E. Rittmann (2001). Concurrent Perchlorate and Nitrate Reduction in a Novel, Hollow Fiber Membrane Biofilm Reactor. *American Water Works Association Annual Conference*, Washington, DC, conference proceedings on CD-ROM, 19 pages.

Bruce E. Rittmann*, **Robert Nerenberg**, and Issam Najm (2000). Autohydrogenotrophic Perchlorate Reduction. *Proceedings of the American Water Works Association Inorganic Contaminants Workshop*, Albuquerque, NM, conference proceedings in binder, 8 Pages.

Robert Nerenberg, Carol J. Miller*, and Carrie Turner (1997). Spreadsheet Models for Groundwater Flow and Contaminant Transport. *Proceedings of AWRA Symposium on Water Resources Education, Training, and Practice*, Keystone, CO, 10 pages.

Robert Nerenberg* and Robert Butterworth* (1996). Using Chicago's Distribution/Tunnel Model for Practical Regional Decisions. *Proceedings of AWWA Computer Conference*, Chicago, IL, pg. 233-237.

Robert Nerenberg* and Krishna Mayenkar (1996). The Environmental Audit - First Step Towards Strategic Environmental Management. *Proceedings of Power-Gen International Conference*, Orlando, FL, pg. 121-145.

Robert Nerenberg, Yasunori Kawagoshi, and Bruce Rittmann. Microbial Ecology of a Perchlorate-Reducing Biofilm Reactor with Nitrate as a Primary Electron Acceptor. *10th International Symposium on Microbial Ecology ISME 10*. Cancun, Mexico. August, 2004. Abstract accepted.

Robert Nerenberg, Yasunori Kawagoshi, and Bruce Rittmann. Kinetics and Microbial Ecology of Perchlorate-Reducing Bacteria: Implications for Remediation. *International Conference on Soils, Sediments, and Water*. Invited presenter. Amherst, MA. October, 2004.

*Presenter(s)

PROFESSIONAL
ORGANIZATIONS:

American Society of Civil Engineers (ASCE), American Society for Microbiology (ASM), American Water Works Association (AWWA), International Water Association (IWA), Water Environment Federation (WEF), and International Society for Microbial Ecology (ISME).