MICHAEL J. DYBAS, Ph.D.
M. DYBAS and ASSOCIATES, LLC

PROFESSIONAL EXPERIENCE

2007-present	Environmental Consultant, M. Dybas and Associates, LLC. Professional consulting services to State regulatory agencies, engineering / consulting firms and corporate clients.
2007-2010	Adjunct Assistant Professor, Center for Microbial Ecology, College of Agriculture and Natural Resources, Michigan State University.
1999-2007	Joint appointment-Assistant Professor, Center for Microbial Ecology and Adjunct Assistant Professor, Department of Civil and Environmental Engineering, Michigan State University.
1994-1999	Assistant Professor, Center for Microbial Ecology/College of Natural Sciences, Michigan State University.
1992-1994	Post-Doctoral Research Associate, National Science Foundation Center for Microbial Ecology, Michigan State University.

EDUCATION

1988-1992	Ph.D. Microbiology. Department of Microbiology, University of Illinois at Urbana-Champaign.
1986-1988	M.S. Microbiology. Department of Microbiology, University of Illinois at Urbana-Champaign.
1981-1985	B.S. Biology. Marquette University, Milwaukee, WI.

SELECT PROJECT SUMMARIES

1. State of Michigan Department of Environmental Quality, 2009-ongoing. Design, construct and operate a field system for reductive dechlorination of vinyl chloride in groundwater at the Americhem Facility (Mason, MI).

2. Federal Mogul Corporation, 2006- ongoing. Evaluation and implementation of a biocurtain for remediation of chlorinated ethenes.

3. State of Michigan Department of Environmental Quality, 2000- 2007. Evaluation of bioremediation in groundwater contaminated with chlorinated solvents and metals (Schoolcraft, MI).

4. Eaton Corporation, 2002- 2008. Design and operate chlorinated solvent/ groundwater treatment system utilizing biostimulation at the former Eaton Corp. manufacturing facility in Battle Creek, MI.

SELECT PUBLICATIONS

1. Criddle, C.S., Dybas, M.J., Tatara, G.M., Warnick, L.B., Vidal-Gavilan, G., Robertson, A.P. and Lewis, T.A. 2013. "Bioaugmentation with *Pseudomonas stutzeri* KC for carbon tetrachloride remediation" in Stroo, H.F., Leeson, A. and Ward, C.H. eds, Bioaugmentation for Groundwater Remediation. Springer, New York, USA. DOI 10.1007/978-1-4614-4115-1

2. Semkiw, E., Dybas, M.J., and M.J. Barcelona. (2009). "Evaluation of three electron-donor permeable reactive barrier materials for enhanced reductive dechlorination of Trichloroethene". Bioremediation Journal, 13(1):7-20. DOI:10.10801108898608026904 89

3. Forrester, S.B., Han, J.I., Dybas, M.J., Semrau, J.D. and C. M. Lastoskie. (2005). "Characterization of a mixed methanotrophic culture capable of chloroethylene degradation". *Environmental Engineering Science*, **22**:270-279.

4. Phanikumar, M.S., Hyndman, D.W., Zhao, X., and M.J. Dybas. (2005) "A three dimensional model of microbial transport and biodegradation at the Schoolcraft, Michigan site". *Water Resources Research*, DOI:10.1029/2004WR003376.

5. Dybas, M.J., Hyndman, D.W., Heine, R., Tiedje, J., Linning, K., Voice, T., Wiggert, D., Zhao, X., Dybas, L., and C. S. Criddle. (2002). "Development, operation and long-term performance of a full-scale biocurtain utilizing bioaugmentation". *Environmental Science & Technology*, **36**(16):3635-3645.

6. Hyndman, D.W., Dybas, M.J., Forney, L, Heine, R., Mayotte, T., Phanikumar, M.S., Tatara, G., Voice, T., Wallace, R., Wiggert, D., Zhao, X., and C.S. Criddle (2000) "Hydraulic characterization and design of a full-scale biocurtain." *Groundwater*, **38**(3):462-474.

7. Witt, M.E., M.J. Dybas, R. M. Warden and C. S. Criddle. (1999). "Motility-enhanced bioremediation of carbon tetrachloride-contaminated aquifer sediments." *Environmental Science & Technology*, **33**, 2958-2964.

8. Dybas, M. J., Barcelona, M., Bezborodnikov, S., Davies, S., Forney, L., Heuer, H., Kawka, O., Mayotte, T., Sepulveda-Torres, L., Smalla, K., Sneathen, M., Tiedje, J., Voice, T., Wiggert, D. C., Witt, M. E., and C.S. Criddle. (1998). "Pilot-scale evaluation of bioaugmentation for in-situ remediation of a carbon tetrachloride-contaminated aquifer." *Environmental Science & Technology*, **32**(22), 3598-3611.

9. Mayotte, T. J., Dybas, M. J., and Criddle, C. S. (1996). "Bench scale evaluation of bioaugmentation and transformation of carbon tetrachloride in a model aquifer system." *Groundwater*, **34**(2): 358-367.

10. Dybas, M. J., Tatara, G. M., and C.S. Criddle. (1995). "Localization and characterization of the carbon tetrachloride transformation activity of *Pseudomonas* sp. strain KC." *Applied and Environmental Microbiology*, **61**(2), 758-762.

11. Tatara, G. M., Dybas, M. J., and C.S. Criddle. (1993). "Effects of medium and trace metals on kinetics of carbon tetrachloride transformation by *Pseudomonas* sp. strain KC." *Applied and Environmental Microbiology*, **59**(7), 2126-2131.

12. Dybas, M.J. and J. Konisky. 1992. "Energy transduction in the methanogen *Methanococcus voltae* is based on a sodium current." J. Bacteriol. **174**:5575-5583

SELECT PATENTS

1. Dybas, M.J., Criddle, C.S., and G.M. Tatara. Method for conversion of a halogenated hydrocarbon using a Pseudomonas sp. Issued 9/2/03. *Patent number US 6,613,558 B1*.

2. Criddle, C.S., Dybas, M.J., and G.M. Tatara. Method for remediation of an environment contaminated with carbon tetrachloride. Issued 11/11/03. *Patent number US 6,645,756 B1*.

3. Dybas, M.J., Criddle, C.S., and M.E. Witt. Compositions for providing a chemical to a microorganism. Issued 12/18/01. *Patent number 6,331,300 B1*.

4. Dybas, M.J., Criddle, C.S., and M.E. Witt. Methods and compositions for providing a chemical to a microorganism. Issued 9/11/01. *Patent number 6,287,846.*

5. Dybas, M.J., Criddle, C.S., and M.E. Witt. Methods for providing a chemical to a microorganism. Issued 7/10/01. *Patent number 6,258,589 B1*.

6. Criddle, C.S., G. M. Tatara and M.J. Dybas. Method and composition for bioremediation. 1994. Issued 2/11/97. *Patent number 5,602,036.*