

## Miki Hondzo

Professor

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### Professional Preparation

<b>Undergraduate</b>	University of Sarajevo	Civil Engineering	B.Sc. 1983
<b>Graduate</b>	Free University of Brussels	Surface Water Hydrology	M.Sc. 1988
	University of Minnesota	Civil Engineering	Ph.D. 1992
<b>Postdoctoral</b>	Michigan State University	Environmental Engineering	1992-1993
	St. Anthony Falls Lab.	Experimental Fluid Mech.	1993-1995

### Appointments

1999-present **University of Minnesota**, Department of Civil Engineering, Associate, Full Professor.

1995-1999 **Purdue University**, School of Civil Engineering, Assistant Professor.

### Awards/Recognitions

2008 **Samuel Arnold Greeley Award**. Environmental Engineering Division, American Society of Civil Engineers. Award for the best research paper "Modeling heavy metal removal by plant species and sediment."

2006 "**Outstanding *Limnology and Oceanography* Reviewer.**" Recognized by *Limnology and Oceanography* journal for reviewing service.

2000 **Rudolph Hering Medal**. Environmental Engineering Division, American Society of Civil Engineers. Award for most valuable contribution to the increase of knowledge in the environmental branch of the engineering profession for the paper, "Diffusional mass transfer at the sediment-water interface."

1997-2002 **CAREER AWARD, National Science Foundation**  
(Division of Chemical and Transport Systems)

1997 **Founders Award** for the best paper "Long-term lake water quality predictors", appearing in the 1996 year of *Water Research*. The USA National Committee of International Association on Water Quality.

### Publications (Recent 7 out of 61)

1. Morris, W.L.M., M. Hondzo, and M. Power (2011). Scaling *Glossosoma* (Trichoptera) density by abiotic variables in mountain streams, *Journal of North American Benthological Society*, 30(2), 493-506.
2. Hansen, A.T., R.A. Stark, and M. Hondzo (2011). Uptake of dissolved nickel by *Elodea canadensis* and epiphytes influenced by fluid flow conditions, *Hydrobiologia*, 658(1), 127-138.

3. Chengala, A.A., M. Hondzo, M. Troolin, and P.A. Lefebvre (2010). Kinetic responses of *Dunaliella* in moving fluids, *Biotechnology and Bioengineering*, 107(1), 65-75.
4. Reidenbach, M.A., M.A. Limm, M. Hondzo, and M.T. Stacey (2010). Effects of bed roughness on boundary layer mixing and mass flux across the sediment-water interface, *Water Resources Research*, 46(W07530).
5. Missaghi, S., and M. Hondzo (2010). Evaluation and application of a three-dimensional water quality modelling in a shallow lake with complex morphometry, *Ecological Modelling*, 221(11), 1512-1525.
6. O'Connor, B., M. Hondzo, and J.W. Harvey (2010). Predictive modeling of transient storage and nutrient uptake: Implications for stream restoration, *Journal of Hydraulic Engineering*, 136(12), 1018-1032.
7. Hondzo, M., and A. Wüest (2009). Do microscopic organisms feel turbulent flows?, *Environmental Science and Technology*, 43(3), 764-768.

### **Publications** (other significant)

1. Hondzo, M. (2011). "Microbial and Ecological Fluid Dynamics" in Handbook of Environmental Fluid Dynamics, Ed. H. J. Fernando, Taylor and Francis Books.
2. Potter, M., D. Wiggert, M. Hondzo, and T. Shih (2002). *Mechanics of Fluids*, Third Ed., Brooks/Cole, 800 p, ISBN 0534379966.
3. Hondzo, M., and H.G. Stefan, (1996). "Thermal Transport" in *Environmental Hydraulics*. Eds. Hager, W. and V.P. Singh, Kluwer Academic Publishers, 189-218.

### **Synergistic Activities**

Internet-based course: "CE 5170: Integrated Urban Water Quality Management", University of Minnesota, Department of Civil Engineering, Participants: University of Minnesota, Purdue University, University of Illinois, University of Iowa, Vrije Universiteit Brussel, Technical University of Denmark, University College London, University of Lancaster, Aristotle University of Thessaloniki, Lyonnaise des Eaux.

Involvement in Co-operation Program in Higher Education and Vocational Training; "Student, Scholar and Multimedia Exchanges in Environmental / Water Resources Engineering and Sciences" ;sponsored jointly by the U.S. Department of Education and the European Commission.

### **Collaborators**

Peter Lefebvre (University of Minnesota), Chris Paola (University of Minnesota), Michael Sadowsky (University of Minnesota), Michael Semmens (University of Minnesota), Jian Sheng (University of Minnesota), Carolyn Silflow (University of Minnesota), Peter Sorensen (University of Minnesota), Fotis Sotiropoulos (University of Minnesota), Marcelo Garcia (University of Illinois), Dennis Lyn (Purdue University), Charles Melching (Marquette University), and Mary Power (University California Berkeley).

### **Thesis Adviser**

Hey-Long Chen (Ph.D., Purdue), Ziaul Haider (Ph.D., Purdue), Nancy Stainberger (M.S., Purdue), Amit Kapur (M.S., Purdue), Thomass Spriggs (M.S., Purdue), Sudhir Kanala (M.S., Purdue), Maria Bergstedt (M.S., Minnesota), Jeff Weiss (M.S., Minnesota), Benjamin O'Connor (Ph.D., Minnesota), Tanya Warnaars (Ph.D., Minnesota), Amer Al-Homoud (Ph.D., Minnesota), Corey Mackfort (M.S., Minnesota), Maria Spitael (Ph.D., Minnesota), Jeremiah Jazdzewski (M.S., Minnesota), Anwar Chengala (PhD), Mark Morris (PhD), Amy Hansen (PhD), Shahram Missaghi (PhD), Travis Hansen (PhD), Kris Guentzel (M.S.).