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Assistant Professor

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1. POST SECONDARY EDUCATION

- 2003 **Ph.D.** in Environmental Engineering, University of British Columbia, Canada
1993 **M.A.Sc.** in Environmental Engineering, University of British Columbia, Canada
1989 **M.Eng.** in Environmental Engineering, Tsinghua University, Beijing, China
1986 **B.Eng.** in Environmental Engineering, Tsinghua University, Beijing, China

2. PROFESSIONAL REGISTRATION/CERTIFICATION

- 2004 **Diplomate Environmental Engineer (DEE)**, Board Certified Specialist in Water Supply and Wastewater, American Academy of Environmental Engineers
1995 Licensed **Professional Engineer (P.E.)** in Civil Engineering, State of Washington, USA (current)
1994 Registered **Professional Engineer** in Environmental Engineering, Province of British Columbia, Canada (1994-2004)

3. PUBLICATIONS

1. **Zhou, J.**, Corley, C. E., Zhu, L., Broeckling, L., Renth, R., and Kluge, T.R. (2006) *Better with Barley Straw*. Water Environment & Technology, 18 (1), pp.70-73.
2. **Zhou, J.**, and Mavinic, D.S. (2003) *Pollution reduction at waste management facilities through thermophilic sludge digestion*. Water Science & Technology, 48 (3), pp. 57-63.
3. **Zhou, J.**, Mavinic, D.S., Kelly, H.G., and Ramey, W.D. (2002) *Effects of temperature and extracellular proteins on dewaterability of thermophilically digested biosolids*. Journal of Environmental Engineering and Science, 1 (6), pp. 409-415.

4. **Zhou, J.**, Corley, C. E., Zhu, L., Broeckling, L., Renth, R., and Kluge, T.R. (2005) *Barley Straw to Improve Performance of Small Wastewater Treatment Lagoon System*. In Proceedings of WEF 78th Annual Conference & Exposition (WEFTEC'05), Oct. 29-Nov. 2, Washington DC
5. Hu, S. and **Zhou, J.** (2005) *Developing a GIS-based Information Management Systems for On-site Wastewater Treatment Facilities*. In Environmental Informatics Archives, Vol. 3, pp. 328-334. Also in Proceedings of 4th International Conference on Environmental Informatics-ISEIS'2005, July 26-28, Xiamen, Fujian, China
6. **Zhou, J.** (2005) *Effective Use of Videos to Enhance the Teaching and Learning of Environmental Engineering*. In Proceedings of ASEE 2005 Annual Conference & Exposition, June 12-15, Portland, OR
7. **Zhou, J.** (2004) *Effects of Solids Concentration on Capillary Suction Time as a Measurement Method of Wastewater Sludge Dewaterability*. In Proceedings of WEF 77th Annual Conference & Exposition (WEFTEC'04), Oct. 2-6, New Orleans, LA
8. **Zhou, J.** (2004) *Achieving Balance between Student-Centered Learning and Instructor-Centered Teaching - A Case Study of an Environmental Engineering Course*. In Proceedings of ASEE 3rd International Colloquium on Engineering Education, Sept. 7-10, Beijing, China
9. **Zhou, J.**, Hu, S., Bhusal, A., and Jones, F. (2004) *Spatial Wastewater Biosolids Information Management System: a GIS Approach*. In Environmental Informatics Archives, Vol. 2, pp. 902-909. Also in Proceedings of ISEIS International Conference on Environmental Informatics, Aug. 25-27, Regina, SK, Canada
10. **Zhou, J.** (2004) *Video-enhanced Instruction Bring Real-world Application and Interactive Learning to Classroom*. In Proceedings of ASEE Illinois/Indiana Sectional Conference, Mar. 26-27, Peoria, IL
11. **Zhou, J.**, Mavinic, D.S., and Kelly, H.G. (2004) *Cations distribution in thermophilic aerobically digested biosolids*. In Proceedings of WEF 18th Annual Residual and Biosolids Management Conference, Feb. 22-25, Salt Lake City, UT
12. **Zhou, J.**, Mavinic, D.S., Kelly, H.G., and Ramey, W.D. (2003) *Experimental assessment of factors influencing dewatering properties of thermophilically digested biosolids*. In Proceedings of IWA Sludge Management Conference, June 23-25, Trondheim, Norway, pp. 111-118.
13. **Zhou, J.**, Mavinic, D.S., and Kelly, H.G. (2003) *Factors of impact on dewatering properties of thermophilically digested biosolids*. In Proceedings of 2nd Canadian Organic Residuals Recycling Conference, April 24-25, Penticton, BC, Canada
14. **Zhou, J.**, and Mavinic, D.S. (2002) *Pollution reduction at waste management facilities through thermophilic sludge digestion*. In Proceedings of 1st IWA Young Researchers Conference, Sept. 9-10, Cranfield, UK (best poster award), pp. 106-112.
15. **Zhou, J.**, Mavinic, D.S., Kelly, H.G., and Ramey, W.D. (2002) *Dewaterability of thermophilically digested biosolids: effects of temperature and cellular polymeric substances*. In Proceedings of 2002 Joint CSCE/ASCE-EWRI Environmental Engineering Conference, July 21-24, Niagara Falls, Ontario, Canada
16. **Zhou, J.**, Kelly, H.G., Mavinic, D.S. and Ramey, W.D. (2001) *Digestion effects on dewaterability of thermophilic and mesophilic aerobically digested biosolids*. In Proceedings of WEF 74th Annual Conference & Exposition (WEFTEC'01), Oct. 13-17, Atlanta, GA

17. **Zhou, J.**, Mavinic, D.S. and Kelly, H.G. (2001) *Flocs size profiling to characterise dewatering properties of thermophilic and mesophilic aerobically digested biosolids*. In Proceedings of 7th CSCE Environmental Engineering Conference, May 30-June 2, Victoria, BC, Canada (2nd place student paper award)
18. Kelly, H.G., Frese, H., Gibb, A. and **Zhou, J.** (2000) *Dewatering improvements of thermophilically digested biosolids through addition of metal salts at the Salmon Arm Water Pollution Control Centre*. In Proceedings of 6th CSCE Environmental Engineering Conference, June 7-10, London, Ontario, Canada, pp. 241-246.

4. GRANTS, FELLOWSHIP, AWARDS

1. **Illinois Waste Management Research Center**, Champaign, IL (2005-2006), “Barley Decomposition and Inhibitory Effects on Algae Growth in Wastewater”
2. **SIUE**, Outstanding Thesis Award (2005), Principal Advisor of Amit Bhusal’s M.S. thesis, titled “The Development and Application of a GIS-based Wastewater Biosolids Information Management System”
3. **Village of Roxana**, IL (2004), “Impact of Roxana WWTP Discharge on Water Quality in the Cahokia Diversion Channel”
4. **SIUE**, Summer Research Fellowship (2005), “Rapid Determination of Conditioning Chemical Dosage to Dewater Wastewater Sludge”
5. **SIUE**, Research Equipment and Tools Program (2004), “Particle Charge Detector to Enhance Environmental Engineering Research”
6. **SIUE**, Funded University Research (2004-2005), “Kinetics of Barley Decomposition in Wastewater”
7. **SIUE**, Research Grants for Graduate Students (2004), “Chlorophyll Analysis to Assess Inhibitory Effect of Rotting Barley on Algae Growth in Wastewater” (Principal Advisor of M.S. student Liang Zhu)
8. **Basilico Engineering Inc.** St. Louis, MO (2004), “Environmental Engineering Practicum and Municipal Infrastructure Design”
9. **SIUE**, Excellence in Graduate Education (2004), “Promoting Research in Environmental Engineering”
10. **SIUE**, Academic Computing Software Grant (2004), “CE 460 Municipal Infrastructure Design Software Package”
11. **Illinois Environmental Protection Agency**, Springfield, IL (2004), “Barley Straw for Algae Control in New Baden Wastewater Lagoon”
12. **SIUE**, Summer Research Fellowship (2004), “Field Study for Algae Control in Wastewater Lagoon”
13. **SIUE**, Funded University Research, (2003-2004), “Developing a Wastewater Biosolids Information Management System”
14. **International Water Association**, London, U.K./**Norwegian University of Science and Technology**, Trondheim, Norway (2003), “IWA 2003 Biosolids Conference Travel Grant”
15. **American Society of Civil Engineers**, Reston, VA (2003), “ASCE Excellence in Civil Engineering Education (ExCEED) Fellowship”
16. **Basilico Engineering Inc.** St. Louis, MO (2003), “Internship for Environmental Engineering Program”

17. **SIUE**, Excellence in Graduate Education (2004), “Developing a New Graduate Course: Municipal Infrastructure Design”
18. **SIUE**, Excellence in Undergraduate Education (2003-2004), “Enhancing the Teaching of Environmental Engineering by Multimedia Tools”
19. **SIUE**, Summer Research Fellowship (2003), “Effects of Solids Concentration on Capillary Suction Time as a Measurement Method of Wastewater Sludge Dewaterability”
20. **SIUE**, Excellence in Graduate Education (2003), “Learning and Teaching beyond the Classroom: WebCT for an Environmental Engineering Laboratory Course”
21. **International Water Association**, London, U.K. (2002), IWAP Best Poster Award, 1st IWA Young Researchers Conference, Sept. 9-10, Cranfield, UK.
22. **British Columbia Water and Waste Association**, BC, Canada (2002), Student Recognition Award
23. **Canadian Society for Civil Engineering**, Canada and **British Columbia Hydro & Power Authority**, BC, Canada (2001), 2001 CSCE Graduate Student Paper Competition Award (2nd Place), 29th CSCE Annual Conference, May 30-June 2, Victoria, BC, Canada.
24. **Science Council of British Columbia**, Canada (1998-2001), Graduate Research in Engineering and Technology (GREAT) Scholarship.
25. **Natural Science and Engineering Research Council (NSERC)/Dayton & Knight Ltd.**, Canada (1998-2000) NSERC Industrial Post-graduate Scholarship.
26. **Canadian Council of Professional Engineers (CCPE)**, Canada (1999), CCPE-Manulife Financial National Scholarship.
27. **University of British Columbia**, Canada (1990-1991), University Graduate Fellowship.
28. **University of British Columbia**, Canada (1990), Environmental Engineering Research Scholarship.

5. TEACHING IN HIGHER EDUCATION

Southern Illinois University Edwardsville, USA (2002-current)

1. CE 416 Engineering Hydrology
2. CE 460 Municipal Infrastructure Design
3. CE 480 Environmental Analysis
4. CE 486 Wastewater Treatment Design
5. CE 487 Water Treatment Design
6. CE 493 Engineering Design
7. CE 581 Advanced Wastewater Treatment
8. CE 592 Water Quality and Treatment
9. CE 380 Environmental Engineering
10. CE 240 Statics

British Columbia Institute of Technology, Canada (2001-2002)

1. EENG 7714 Methods of Wastewater Analysis
2. EENG 8753 Industrial Wastewater Treatment I
3. EENG 8754 Industrial Wastewater Treatment II

6. EMPLOYMENT HISTORY

2002-current Assistant Professor, **Southern Illinois University Edwardsville**, USA
 2001-2002 Sessional Instructor, **British Columbia Institute of Technology**, Canada
 1998-2002 Graduate Research Assistant, University of British Columbia, Canada
 1994-1999 Project Engineer (Environmental), **Dayton & Knight Ltd.**, BC, Canada
 1991-1994 Environmental Engineer, **Stantec Consulting Ltd.**, Canada
 1989-1991 Graduate Research Assistant, University of British Columbia, Canada

7. PROFESSIONAL ENGINEERING EXPERIENCE

1994 – 1998 and 1999 Project Engineer, Dayton & Knight Ltd. Canada

- Design and Construction Management of Wastewater Treatment Plants
- Sanitary Sewer Modelling, Study Analysis, Design and Construction Management
- Sewage and Drainage Pump Stations
- Water Supply System Modelling, Analysis and Studies

1991 – 1994 Environmental Engineer, Stantec Consulting Ltd. Canada

- Design of Wastewater Collection and Treatment Systems
- Water Supply and Treatment Pilot Study and Operation Training
- Municipal Infrastructure Projects

(Updated on 1/10/2006)