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### **Education**

- M.S.** Environmental Science and Engineering, Colorado School of Mines  
December 1999  
+ 1.5 years of courses and research towards Ph.D.
- B.S.** Civil Engineering, West Virginia University  
May 1998, Magna cum Laude

### **Teaching Experience and Training**

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|---|-------------------------|
| ENGR 151 – Engineering Practices I  | Fall 2008               |
| ENGR 161 – Engineering Practices II (MATLAB programming)  | Spring 2009             |
| PHYS 212 – General Physics II, laboratory   | Spring 2009             |
| CHEM 106 – General chemistry II, laboratory   | Fall 2003 & Spring 2005 |
| CHEM 112 – General chemistry II, lecture and laboratory<br>Front Range Community College, Westminster, Colorado | Fall 2001               |
| Fundamentals of College Teaching<br>Graduate course taken at Colorado School of Mines                           | Fall 2000               |

### **Engineering Certifications and Skills**

Registered Professional Civil Engineer, State of Alaska, CE#12323  
Programming languages include BASIC, FORTRAN, C++, MATLAB  
Contaminant fate and transport modeling (RT3D)

### **Employment History**

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|---|-------------------------|
| <b>Environmental Engineering Associate</b><br>Alaska Department of Environmental Conservation, Juneau, AK<br>Plan Review Engineer for Onsite Wastewater Projects in Southeast Alaska      | July 2005 – August 2008 |
| <b>Environmental Program Specialist III</b><br>Alaska Department of Environmental Conservation, Juneau, AK<br>Non-point Source Restoration and Protection Specialist for Southeast Alaska | Sept 2004 - July 2005   |
| <b>Project Manager, Instrument and Wet Chemistry Analyst</b><br>Analytica, Alaska, Inc., Juneau, AK   | April 2003 – Sept 2004  |
| <b>Staff Environmental Engineer</b><br>SECOR International, Inc., Golden and Fort Collins, Colorado   | Nov 2001 – March 2003   |
| <b>Graduate Research Assistant</b>  | Sept 1998 – Aug 2001    |

Colorado School of Mines, Golden, Colorado

### **Professional Development**

- Fundamentals of Arctic Engineering** Oct 2007  
University of Alaska Anchorage, online course
- EPA Water Quality Standards Academy** Feb 2007
- National Onsite Wastewater Recycling Association 15<sup>th</sup> Annual Meeting** Sept 2006  
Denver, Colorado
- ASCE World Environmental and Water Resource Congress, Annual Meeting** May 2005
- NATO Advanced Study Institute** June 2001  
In-situ Assessment and Remediation of Contaminated Sites; Prague, Czech Republic
- Academic Publishing** Fall 2000  
Colorado School of Mines, Golden, CO
- Transport and Biodegradation in Heterogeneous Groundwater Aquifers** Aug 2000  
Ph.D. course-Advanced School, Danish Center for Applied Mathematics and Mechanics  
Technical University of Denmark; Copenhagen, Denmark

### **Professional Membership and Service**

Associate Member, American Society of Civil Engineers  
Member, Environmental and Water Resources Institute of ASCE American Water Resources Association, Alaska Chapter, Southeast Director, 2005 - 2007  
Board Member, Wetlands Review Board, City and Borough of Juneau, 2005 - 2007  
Science Fair judge, high school and middle school, Juneau

### **Presentations and Conference Proceedings**

**Swadley (Sowa) L., J. Munakata-Marr, W. Mahaffey (2000).** Bioaugmentation for In-situ Remediation of Chlorinated Solvents in Groundwater. Annual Meeting of the American Society for Microbiology. Los Angeles, CA.

**Swadley (Sowa) L., J. Munakata-Marr, W. Mahaffey (1999).** Wild Type and Constitutive Mutant Strains of *B. cepacia* for Insitu Bioremediation of Chlorinated Solvents. Battelle In-situ and Onsite Bioremediation International Symposium. San Diego, CA.

### **Honors and Awards**

GAANN Fellowship, Colorado School of Mines  
Graduate Research Fair, Colorado School of Mines, 2000, 1<sup>st</sup> place  
Presidential Scholar, West Virginia University