

## **Michael Plampin**

**Colorado School of Mines (CSM)**

**Department of Civil and Environmental Engineering (CEE)**

**Center for Experimental Study of Subsurface Environmental Processes (CESEP)**

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**Golden, CO 80401**

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## **EXPERIENCE**

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Graduate Research Assistant at CSM, Department of Civil and Environmental Engineering (Golden, Colorado)

August 2011 – Present

- Conducted experiments on various aspects of carbon dioxide sequestration, including multiphase flow of CO<sub>2</sub> gas and water in shallow subsurface environments as well as capillary and dissolution trapping mechanisms for supercritical CO<sub>2</sub> in deep saline aquifers

Undergraduate Research Assistant at CSM, Division of Environmental Science and Engineering (Golden, Colorado)

October 2007 – August 2011

- Characterized water and wastewater samples to evaluate various treatment methods, including onsite wastewater reclamation, riverbank filtration, and membrane bioreactors

Intern at Washington River Protection Solutions, Interface Management Group (Richland, Washington)

May 2010 – August 2010

- Clarified contractual agreements among the Department Of Energy and various contractors to facilitate the clean up and closure of the Hanford Nuclear Site

## **EDUCATION**

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M.S. in Civil and Environmental Engineering from CSM (Golden, Colorado)

August 2011 – May 2013 (expected graduation)

- Tentative thesis title: *A fundamental study of CO<sub>2</sub> exsolution and migration in shallow subsurface environments during leakage from a geologic sequestration site*
- Adviser: Dr. Tissa Illangasekare

B.S. in Engineering with an Environmental Specialty and a Minor in Public Affairs for Engineers from CSM (Golden, Colorado)

August 2006 – May 2011

## **HONORS / AWARDS / LEADERSHIP POSITIONS**

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AMAX Laboratories Safety Officer for CESEP, 2011 – Present  
Treasurer of Student Water Enthusiasts Dedicated to Engineering (CSM joint student chapter of the American Water Works Association and the Water Environment Association), 2011 – Present  
Student Committee of Civil and Environmental Engineering member (CSM student government group), 2011 – Present  
Cum Laude bachelor's graduate, 2011  
Dean's List honoree, 7 of 9 undergraduate semesters  
Guy T. McBride Jr. Honors Program scholar, January 2007 – May 2011  
CSM Student Employee of the Year, 2009

## **PROFESSIONAL AFFILIATIONS & CERTIFICATIONS**

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American Geophysical Union (AGU) member, 2011 – Present  
Sustainable Remediation Forum (SURF) member, 2011 – Present  
National Groundwater Association (NGWA) member, 2011 – Present  
American Water Works Association (AWWA) member, 2011 – Present  
Passed the Engineer In Training (EIT) exam, April 2011  
Tau Beta Pi member, 2010 – Present

## **CONFERENCE PROCEEDINGS**

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Sakaki, T., **Plampin, M.\***, Lassen, R., Pawar, R., Komatsu, M., Jensen, K., and Illangasekare, T. (2011), A fundamental study of gas formation and migration during leakage of stored carbon dioxide in subsurface formations. Proceeding of AGU Fall Meeting 2011, San Francisco, December 5-9, 2011

Lassen, R., Sakaki, T., **Plampin, M.**, Pawar, R., Jensen, K., Sonnenborg, T., and Illangasekare, T. (2011), Study of effects of formation heterogeneity of carbon dioxide gas migration using a two-dimensional intermediate scale heterogeneous aquifer. Proceeding of AGU Fall Meeting 2011, San Francisco, December 5-9, 2011

Pawar, R., Dash, Z., Sakaki, T., **Plampin, M.**, Lassen, R., Illangasekare, T., and Zylvoski, G. (2011), Numerical modeling of experimental observations on gas formation and multi-phase flow of carbon dioxide in subsurface formations. Proceeding of AGU Fall Meeting 2011, San Francisco, December 5-9, 2011

\* = **Presenter**