

## JAMES J. STONE, Ph.D., P.E.

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### PERSONAL INFORMATION

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### CURRENT POSITIONS AND AFFILIATIONS

Associate Professor, Department of Civil and Environmental Engineering, South Dakota School of Mines and Technology, August 2008 to present  
Assistant Professor, Department of Civil and Environmental Engineering, South Dakota School of Mines and Technology, August 2003 to August 2008  
Affiliated Faculty, BS Environmental Engineering Program, South Dakota School of Mines and Technology, August 2003 to present  
Hydrologist, USGS South Dakota Water Science Center, Rapid City, South Dakota, May 2010 to present

### PAST POSITIONS

Postdoctoral Research Associate, 2003, The Pennsylvania State University, Department of Civil and Environmental Engineering  
Staff Environmental Engineer, 1997 to 1999, TRC-Hydrogeo Consultants, Lakewood, Colorado  
Staff Environmental Engineer, 1995 to 1997, Olver Incorporated, Blacksburg, Virginia

### EDUCATION

Doctor of Philosophy, 2002, Environmental Engineering, The Pennsylvania State University  
Masters of Science, 1995, Environmental Engineering, Virginia Polytechnic Institute and State University  
Bachelor of Science, 1993, Civil Engineering, Virginia Polytechnic Institute and State University

\* refers to SDSM&T graduate or undergraduate student author

### REFEREED JOURNAL ARTICLES

1. Stone, J.J., Clay, S., Spellman, G. Tylosin and chlortetracycline effects during swine manure digestion: influence of sodium azide. *Bioresource Technology*. In press. doi:10.1016/j.biortech.2010.07.116
2. Larson\*, L., Stone, J.J. Sediment-bound arsenic and uranium within the Bowman-Haley Reservoir, North Dakota. *Water, Air, and Soil Pollution*. In review
3. Stetler, L., Stone, J.J., Schwalm, A. Field sampling protocol for abandoned uranium mine site characterization: Part 1—soil cores and water. *Environmental and Engineering Geoscience*. In review.
4. Stetler, L., Stone, J.J., Schwalm, A. Field sampling protocol for abandoned uranium mine site characterization: Part 2—surface soil and aerosol dust. *Environmental and Engineering Geoscience*. In review.
5. Stetler, L., Stone, J.J., Schwalm, A. Assessment of environmental impacts from abandoned uranium mine site in the North Cave Hills, Harding County, South Dakota Part 3—a field sampling protocol case study. *Environmental and Engineering Geoscience*. In review.
6. Hayer, C., Chipps, S., Stone, J.J. Influence of Physiochemical and Watershed Characteristics on Mercury Concentration in Walleye, *Sander vitreus*, *M. Bulletin of Environmental Contamination and Toxicology*. In review.

7. Stone, J.J., Aurand\*, K., Dollarhide\*, C., Jinka\*, R., Thaler, R., Clay, D., Clay, S. Determination of environmental impacts of antimicrobial usage for Northern Great Plains U.S. swine production facilities: a life cycle assessment approach. *International Journal of Life Cycle Assessment*. In review.
8. Stone, J.J., Dollarhide\*, C., Jinka\*, R., Aurand\*, K., Thaler, R., Hostetler, C., Clay, D., Life cycle assessment of a modern Northern Great Plains U.S. swine production facility. *Environmental Engineering Science*. In review.
9. McCutcheon\*, C., Stetler, L., Chipps, S., Stone, J.J., Relations between water quality and mercury fish tissue concentrations for South Dakota natural lakes and impoundments. *Environmental Engineering Science*. In review.
10. Paul\*, C., Stone, J.J., 2009. Effects of Nickel and Soil Humic Acid during biological hematite reduction by *Shewanella putrefaciens*. *Environmental Engineering Science*. 26(4): 841-848. doi:10.1089/ees.2008.0254.
11. Kipp\*, G., Stone, J.J., Stetler, L.D., 2009. Metal transport in sediments near abandoned uranium mines in Harding County, South Dakota. *Applied Geochemistry*. 24(2009): 2246-2255. doi:10.1016/j.apgeochem.2009.09.017
12. Stone, J.J., Clay, S., Zhu\*, Z., Wong\*, K., Porath\*, L., Spellman, G., 2009. Impact of antimicrobial agents tylosin and chlorotetracycline during swine manure treatment. *Water Research*. 43(2009): 4740-4750. doi:10.1016/j.watres.2009.08.005
13. Stone J.J., Burgos W.D., Royer R.A., and Dempsey B.A., 2007. Effect of natural organic matter on zinc inhibition of biological Fe(III) and nitrate reduction by *Shewanella putrefaciens* CN32. *Environmental Science and Technology*. 41(15): 5284-5290.
14. Burgos, W.D., Senko, J.D., Dempsey, B.A., Roden, E.E., Stone, J.J., Kemner, K.M., Kelley, S.D., 2007. Soil humic acid decreases biological uranium(VI) reduction by *Shewanella putrefaciens* CN32. *Environmental Engineering Science*. 24(6): 755-761.
15. Stone J.J., Burgos W.D., Royer R.A., and Dempsey B.A., 2006. Impact of zinc on biological Fe(III) and NO<sub>3</sub><sup>-</sup> reduction by *Shewanella putrefaciens* CN32. *Environmental Engineering Science*. 23(4): 691-704.
16. Stone J.J., Burgos W.D., Royer R.A., and Dempsey B.A., 2006. Zinc and manganese inhibition of biological hematite reduction. *Environmental Engineering Science*. 23(5): 859-870.
17. Burgos, W.D., Fang, Y.L., Royer, R.A., Yeh, G.T., Stone, J.J., Jeon, B.H., Dempsey, B.A., 2003. Reaction-based modeling of quinone-mediated bacterial Iron(III) reduction. *Geochimica Cosmochimica Acta*. 67(15): 2735-2748.

## REPORTS AND REPORT CHAPTERS

1. Stone, J.J. 2010. Final Report: Phase I data collection and assessment for South Dakota mercury TMDL development. Report No. CEE 06-10. Department of Civil and Environmental Engineering, South Dakota School of Mines and Technology. Prepared for South Dakota Division of Environment and Natural Resources, Pierre, SD.
2. Stetler, L.D., Stone, J.J. 2010. Environmental geology of abandoned uranium mines, Harding County, South Dakota. In *Geologic Field Trips in the Black Hills* (eds. M. Terry, E. Duke, J. Tielke). Bulletin No. 21, Department of Geology and Geological Engineering, South Dakota School of Mines and Technology, Rapid City, SD. 128-138.
3. Schwalm, A., Stone, J.J., Stetler, L.D. 2008. Abandoned Mine Investigation Report: Metal Contaminant Concentrations at the Abandoned Hilltop #1 and #2, Area H-2, Hanson Operation Uranium Mine Site, Slim Buttes, Harding County, South Dakota. Report No 10-08. Department of Civil and Environmental Engineering, South Dakota School of Mines and Technology. Prepared for USDA-USFS Northern Regional Office, Missoula, MT.
4. Davis, A., Stetler, L.D., Stone, J.J. 2007. Pumping Well Test Analysis: Hell Creek Aquifer, North Cave Hills, Harding County, South Dakota. Report No 11-07, Department of Geology and Geological Engineering, South Dakota School of Mines and Technology. Prepared for USDA-USFS Northern Regional Office, Missoula, MT.
5. Stone, J.J., Clay, S., Thaler, R. 2007. Annual Report: Degradation of antimicrobial agents Tylosin and Chlorotetracycline during swine waste treatment. Prepared for the National Science Foundation, Chemical, Bioengineering, Environmental, and Transport Systems Division, Arlington, VA.
6. Stone, J.J., Stetler, L.D., Schwalm, A. 2007. Final Report: North Cave Hills Abandoned Uranium Mines Impact Investigation. Report No. 04-17, Department of Civil and Environmental Engineering, South Dakota School of Mines and Technology. Prepared for USDA-USFS Northern Regional Office, Missoula, MT.

7. Stone, J.J., Stetler, L.D., Schwalm, A. 2006. Final Draft Report: North Cave Hills Abandoned Uranium Mines Impact Investigation. Report No. 06-12, Department of Civil and Environmental Engineering, South Dakota School of Mines and Technology. Prepared for USDA-USFS Northern Regional Office, Missoula, MT.
8. Stone, J.J., Schwalm, A. 2006. Slaba 'Flat Top' Historical Uranium Mine Field Investigation, Ludlow, South Dakota." Report No. 06-10, Department of Civil and Environmental Engineering, South Dakota School of Mines and Technology. Prepared for USDA-USFS Northern Regional Office, Missoula, MT.
9. Stone, J.J., Schwalm, A. 2006. Triangle Mine/Spencer Ranch Historical Uranium Mine Field Investigation, Fall River County, South Dakota. Report No 06-10.2, Department of Civil and Environmental Engineering, South Dakota School of Mines and Technology. Prepared for USDA-USFS Northern Regional Office, Missoula, MT.
10. Kelly S.D., Kemner K.M., O'Loughlin E.J, Boyanov M.I., Stone J.J., Shi Z., Kirkham R., Royer R., Dempsey B., Roden E., Gu B, Burgos W. 2005. U-Edge XANES Measurements of U(VI) Biologically Reduced by *Shewanella putrefaciens* with Soil Humic Acids. Advanced Photon Source Activity Report, Argonne National Lab, Argonne, IL.

#### CONFERENCE PROCEEDINGS

1. Stone, J.J., Stetler, L.D., 2009. Assessment of environmental impacts near abandoned uranium mines within the Cave Hills and Slim Buttes complexes, Custer National Forest, South Dakota. Proceedings from the 2009 Joint Conference, Annual Meeting of the American Society of Mining and Reclamation and 11<sup>th</sup> Billings Land Reclamation Symposium, Billings, MT.
2. Stone, J.J., Clay, S., Spellman, G., 2008. Effect of antimicrobial compounds Tylosin and Chlortetracycline during anaerobic swine manure digestion. Proceedings from 236<sup>th</sup> American Chemical Society National Meeting and Exposition, Division of Environmental Chemistry, Philadelphia, PA.
3. Stetler, L.D., Stone, J.J., 2008. Human health impacts from surface dust near abandoned uranium mines in Harding Co., South Dakota. Proceedings of the South Dakota Academy of Sciences, Volume 87.
4. Stone, J.J., Stetler, L.D., 2008. Environmental Impacts from the North Cave Hills Abandoned Uranium Mines, South Dakota. Proceedings of the Uranium Mining and Hydrology V Conference, Freiberg, Germany.
5. Stetler, L.D., Stone, J.J., Schwalm, A., 2007. Off-site Impacts from Abandoned Uranium Mines in the North Cave Hills, Harding County. Proceedings of the South Dakota Academy of Sciences, Volume 86.
6. Stone, J.J., Stetler, L.D., Schwalm, A., Wintergerst, R., Walters-Clark, L., 2006. Study of abandoned uranium mining impacts on private lands surrounding the North Cave Hills, Custer National Forest, South Dakota. Proceedings of the National Association of Abandoned Mine Lands Program 28<sup>th</sup> National Conference, Billings, MT.

#### CONFERENCE PRESENTATIONS AND ABSTRACTS

1. Stone, J.J., Dollarhide\*, C., Jinka\*, R., Thaler, R., Hostetler, C., Clay, D. Life cycle assessment of a modern U.S. Northern Great Plains swine production facility. Presented at the Life Cycle Assessment X Conference, Portland, OR, November 2010.
2. Pfiefler\*, B., Stone, J.J., Stamm, J., Geibel, N. Arsenic speciation in sediment and pore waters of the historical mining-impacted Belle Fourche and Cheyenne River Floodplains. Presented at the 2010 Eastern South Dakota Water Conference, Brookings, SD, November 2010.
3. Kipp\*, G., Stone, J.J., Larson\*, L. Arsenic and uranium transport in sediments near abandoned uranium mines in Harding County, South Dakota. Presented at the 2010 Geologic Society of America Denver Annual Meeting, Denver, CO, November 2010.
4. Troyer, L., Borch, T., Larson\*, L., Stone, J.J. Impact of redox chemistry on the fate and transport of arsenic and uranium at an abandoned uranium mine. Presented at the 20<sup>th</sup> Annual Goldschmidt Geochemistry Conference, Knoxville, TN, June 2010.
5. Troyer, L., Borch, T., Larson\*, L., Stone, J.J., Impact of redox chemistry on the environmental fate and transport of arsenic and uranium at abandoned uranium mines in Harding County, SD. Presented at the joint meeting of the Rocky Mountain Section, Geologic Society of America 62<sup>nd</sup> Annual Meeting and the 2010 Western South Dakota Hydrology Conference, Rapid City, SD, April 2010.
6. Stone, J.J., Stetler, L., McCutcheon\*, C., Betemariam\*, H., Chipps, S., Mercury TMDL development for South Dakota. Presented at the joint meeting of the Rocky Mountain Section, Geologic Society of America 62<sup>nd</sup>

- Annual Meeting and the 2010 Western South Dakota Hydrology Conference, Rapid City, SD, April 2010.
7. Stone, J.J., Aurand\*, K., Dollarhide\*, C., Jinka\*, R., Thaler, R., Clay, D., Clay, S., Life cycle assessment of tylosin and chlortetracycline antimicrobial use at swine production facilities. Presented at the joint meeting of the Rocky Mountain Section, Geologic Society of America 62<sup>nd</sup> Annual Meeting and the 2010 Western South Dakota Hydrology Conference, Rapid City, SD, April 2010.
  8. Larson\*, L., Stone, J.J., Stetler, L., Troyer, L., Borch, T., Sediment pore-water equilibrium interactions associated with arsenic and uranium transport within a historical uranium mining impacted watershed, Harding County, SD. Presented at the joint meeting of the Rocky Mountain Section, Geologic Society of America 62<sup>nd</sup> Annual Meeting and the 2010 Western South Dakota Hydrology Conference, Rapid City, SD, April 2010.
  9. Larson\*, L., Stone, J.J., Stetler, L., Arsenic and uranium impacted sediment behavior within the Bowman-Haley Reservoir, Bowman County, North Dakota. Presented at the joint meeting of the Rocky Mountain Section, Geologic Society of America 62<sup>nd</sup> Annual Meeting and the 2010 Western South Dakota Hydrology Conference, Rapid City, SD, April 2010.
  10. Jinka\* R., Stone, J.J., Dollarhide\*, C., Aurand\*, K., Clay, D., Thaler, R., Life cycle assessment model for a modern upper Great Plains U.S. confined swine production facility. Presented at the joint meeting of the Rocky Mountain Section, Geologic Society of America 62<sup>nd</sup> Annual Meeting and the 2010 Western South Dakota Hydrology Conference, Rapid City, SD, April 2010.
  11. Betemariam\*, H., Stone, J.J., Stetler, L., McCutcheon\*, C., Chipps, S., Desutter, T., Penn, M., Urban, N., Sediment mercury behavior in South Dakota lakes and impoundments. Presented at the joint meeting of the Rocky Mountain Section, Geologic Society of America 62<sup>nd</sup> Annual Meeting and the 2010 Western South Dakota Hydrology Conference, Rapid City, SD, April 2010.
  12. Dreis\*, E., Stone, J.J., Lupo\*, C., Clay, S., Environmental implications of the land application of manure containing antimicrobials tylosin and chlortetracycline. Presented at the joint meeting of the Rocky Mountain Section, Geologic Society of America 62<sup>nd</sup> Annual Meeting and the 2010 Western South Dakota Hydrology Conference, Rapid City, SD, April 2010.
  13. Betemariam\*, H., Stone, J.J., Stetler, L., McCutcheon\*, C., Chipps, S., Desutter, T., Penn, M., Urban, N., Sediment mercury behavior in South Dakota lakes and impoundments. Presented at the 22<sup>nd</sup> Annual Environmental and Ground Water Quality Conference, Pierre, SD, March 2010.
  14. Stone, J.J., Aurand\*, K., Clay, S., Thaler, R., Life cycle assessment of tylosin and chlortetracycline antimicrobial use at swine production facilities. Presented at 239<sup>th</sup> American Chemical Society National Meeting and Exposition, Division of Environmental Chemistry, San Francisco, CA, March 2010.
  15. Stone, J.J., Penn, M., Desutter, T., Chipps, S., Stetler, L.D., A multimodal approach to develop a TMDL for mercury impaired lakes and impoundments in South Dakota. Presented at the 2009 American Society of Agronomy, Crop Science Society of America, and Soil Science Society of America International Annual Meetings, Pittsburg, PA, November 2009.
  16. Betemariam\*, H., Stone, J., Stetler, L., McCutcheon\*, C., Chipps, S., Desutter, T., Penn, M. Sediment mercury concentration profiles in South Dakota lakes and impoundments. Presented at the 2009 Eastern South Dakota Water Conference, Brookings, SD, November 2009.
  17. McCutcheon\*, C., Stone, J., Stetler, L., Chipps, S. Relations between water quality and mercury fish tissue concentrations for natural lakes and impoundments in South Dakota. Presented at the 2009 Eastern South Dakota Water Conference, Brookings, SD, November 2009.
  18. Hayer, C.A., Chipps, S., Stone, J.J., Relationship of physiochemical and watershed characteristics to mercury concentration in walleye tissue. Presented at the 139<sup>th</sup> American Fisheries Society annual meeting, Nashville, TN, August 2009.
  19. Stone, J.J., Stetler, L.D., Assessment of environmental impacts near abandoned uranium mines within the Cave Hills and Slim Buttes complexes, Custer National Forest, South Dakota. Presented at the 2009 Joint Conference, Annual Meeting of the American Society of Mining and Reclamation and 11<sup>th</sup> Billings Land Reclamation Symposium, Billings, MT, June 2009.
  20. Aurand\*, K., Stone, J.J., Clay, S.A., Determination of environmental and climate change impacts due to antimicrobial usage at swine CAFOs: a Life Cycle Assessment approach. Presented at 2009 Western South Dakota Hydrology Conference, Rapid City, SD, April 2009.
  21. Betemariam\*, H., Stone J.J., Stetler, L.D., McCutcheon\*, C., Chipps, S., Desutter, T., Penn, M., Sediment mercury concentration profiles in South Dakota lakes and impoundments. Presented at 2009 Western South Dakota Hydrology Conference, Rapid City, SD, April 2009.

22. Dreis\*, E., Stone, J.J., Clay, S.A., Spellman, G.M., Environmental implications associated with land application of antimicrobial-containing manure. Presented at 2009 Western South Dakota Hydrology Conference, Rapid City, SD, April 2009.
23. Kipp\*, G., Stone, J.J., Stetler, L.D., Use of metal/thorium ratios and sequential chemical extractions to explain fate and transport of metals associated with abandoned uranium mines in Custer National Forest, Harding County, South Dakota. Presented at 2009 Western South Dakota Hydrology Conference, Rapid City, SD, April 2009.
24. Larson\*, L., Stone, J.J., Stetler, L.D., Development of an arsenic and uranium fate and transport model for historical uranium mining impacts from Custer National Forest, Harding County, South Dakota. Presented at 2009 Western South Dakota Hydrology Conference, Rapid City, SD, April 2009.
25. McCutcheon\*, C., Stone, J.J., Stetler, L.D., Chipps, S., Relationships between water quality and mercury fish tissue concentrations for natural lakes and impoundments in South Dakota. Presented at 2009 Western South Dakota Hydrology Conference, Rapid City, SD, April 2009.
26. Schwalm, A., Eastman, A., Stone, J.J., Metal contaminant concentrations at the abandoned Hilltop #1 and #2 uranium mine site, Slim Buttes, Harding County, South Dakota. Presented at 2009 Western South Dakota Hydrology Conference, Rapid City, SD, April 2009.
27. Stone, J.J., Albertus-Benham\*, H., Stetler, L.D., Schwalm, A., Eastman, A., Surface water and sediment investigation concerning abandoned uranium mines within the Slim Buttes region, Harding County, South Dakota. Presented at 2009 Western South Dakota Hydrology Conference, Rapid City, SD, April 2009.
28. Stone, J.J., Stetler, L.D., McCutcheon\*, C., Betemariam\*, H., Chipps, S., Desutter, T., Penn, M., Relationships between water quality and mercury fish tissue concentrations for lakes and impoundments in South Dakota. Presented at the 21<sup>st</sup> Annual Environmental and Ground Water Quality Conference, Pierre, SD, March 2009.
29. McCutcheon\*, C., Stetler, L.D., Chipps, S., Stone, J.J., Relationships between water quality and mercury fish tissue concentrations for natural lakes and impoundments in South Dakota. Presented at the 2008 Eastern South Dakota Water Conference, Brookings, SD, October 2008.
30. Dreis\*, E., Clay, S., Spellman, G., Stone, J.J., Environmental implications associated with land application of antimicrobial-containing manure. Presented at the 2008 Eastern South Dakota Water Conference, Brookings, SD, October 2008.
31. Aurand\*, K., Stone, J.J., Clay, S., Determination of environmental impacts due to antimicrobial usage at swine CAFOs: a Life Cycle Assessment approach. Presented at the 2008 Eastern South Dakota Water Conference, Brookings, SD, October 2008.
32. Albertus\*, H., Stetler, L.D., Schwalm, A., Eastman, A., Stone, J.J., Surface water and sediment investigation concerning abandoned uranium mines within the Slim Buttes region, Harding County, South Dakota. Presented at the 2008 Eastern South Dakota Water Conference, Brookings, SD, October 2008.
33. Stetler, L.D., Davis, A., Stone, J.J., Assessment of aquifer contamination near abandoned uranium mines in the North Cave Hills, South Dakota. Presented at the 2008 National Groundwater Association, US EPA Remediation of Abandoned Mine Lands Conference, Denver, CO, October 2008.
34. Stone, J.J., Kipp\*, G., Stetler, L.D., Fate and transport of metals in a watershed impacted by abandoned uranium mines. Presented at the Uranium Mining and Hydrology V Conference, Freiberg, Germany, September 2008.
35. Stone, J.J., Stetler, L.D., Environmental impacts from the North Cave Hills abandoned uranium mines, South Dakota. Presented at the Uranium Mining and Hydrology V Conference, Freiberg, Germany, September 2008.
36. Stone, J.J., Clay, S., Spellman, G., Effect of antimicrobial compounds Tylosin and Chlorotetracycline during anaerobic swine manure digestion. Presented at the 236th American Chemical Society National Meeting and Exposition, Division of Environmental Chemistry, Philadelphia, PA, August 2008.
37. Stone, J.J., Kipp\*, G., Stetler, L.D., Metal transport in sediments near abandoned uranium mines in Harding County, South Dakota. Presented at the 18<sup>th</sup> Annual Goldschmidt Geochemistry Conference, Vancouver, Canada, July 2008.
38. Stetler, L.D., Davis, A., Stone, J.J., Results of a groundwater pumping test near abandoned uranium mines in the North Cave Hills, South Dakota. Presented at the 2008 Western South Dakota Hydrology Conference, Rapid City, SD, April 2008.
39. Tuombe\*, E., Stone, J.J., Stetler, L.D., Surface water and sediment investigation concerning abandoned uranium mines within the South Cave Hills region, Harding County, South Dakota. Presented at the 2008 Western South Dakota Hydrology Conference, Rapid City, SD, April 2008.

40. Stone, J.J., Stetler, L.D., Sundareshwar, P., Chipps, S., Penn, M., Development of a mercury TMDL for South Dakota lakes and reservoirs. Presented at the 2008 Western South Dakota Hydrology Conference, Rapid City, SD, April 2008.
41. Kipp\*, G., Stone, J.J., Stetler, L.D., Davis, A., Sorption of metals onto soil minerals near abandoned uranium mines in the South Cave Hills, Harding County, South Dakota. Presented at the 2008 Western South Dakota Hydrology Conference, Rapid City, SD, April 2008.
42. Dreis\*, E., Porath\*, L., Stone, J.J., Clay, S., Spellman, G., Environmental impacts associated with antimicrobial compounds Tylosin and Chlortetracycline usage within swine CAFO facilities. Presented at the 2008 Western South Dakota Hydrology Conference, Rapid City, SD, April 2008.
43. Stetler, L.D., Stone, J.J., Radionuclide impacts to human health from surface dust samples near abandoned uranium mines in Harding Co., South Dakota. Presented at the 87<sup>th</sup> annual meeting of the South Dakota Academy of Sciences, Chamberlain, SD, April 2008.
44. Stetler, L.D., Davis, A., Stone, J.J., Groundwater pumping test in the North Cave Hills uranium district, South Dakota. Presented at the 20<sup>th</sup> Annual South Dakota DENR Environmental and Groundwater Quality Conference, Pierre, SD, March 2008
45. Malladi\*, Y., Wong\*, K., Zhu\*, Z., Clay, S., Stone, J.J., Impacts of antimicrobial agents CTC and Tylosin on gas generation rates during swine manure degradation. Presented at the Joint Meeting of the Eastern South Dakota Water Conference and the 52nd Annual Mid-West Groundwater Conference, Sioux Falls, SD, October 2007.
46. Porath\*, L., Wong\*, K., Zhu\*, Z., Clay, S., Stone, J.J., The effects of antimicrobial agents CTC and Tylosin on the efficiency of swine manure degradation. Presented at the Joint Meeting of the Eastern South Dakota Water Conference and the 52nd Annual Mid-West Groundwater Conference, Sioux Falls, SD, October 2007.
47. Stone, J.J., Clay, S., Spellman, G., Impact of antimicrobial compounds Tylosin and Chlortetracycline during swine manure treatment. Presented at the Joint Meeting of the Eastern South Dakota Water Conference and the 52nd Annual Mid-West Groundwater Conference, Sioux Falls, SD, October 2007.
48. Tuombe\*, E., Stetler, L.D., Stone, J.J., Surface water and sediment investigation concerning abandoned uranium mines in the South Cave Hills region, Harding County, South Dakota. Presented at the Joint Meeting of the Eastern South Dakota Water Conference and the 52nd Annual Mid-West Groundwater Conference, Sioux Falls, SD, October 2007.
49. Stetler, L.D., Stone, J.J., Schwalm, A., Environmental impacts from abandoned uranium mines, Harding County, South Dakota. Presented at the 50th Annual Meeting of the Association of Environmental and Engineering Geologists, Los Angeles, CA, October 2007.
50. Stone, J.J., Clay, S., Spellman, G., Impact of antimicrobial compounds Tylosin and Chlortetracycline during swine manure treatment. Presented at the Association of Environmental Engineering and Science Professors Bi-Annual Conference, Blacksburg, VA, July 2007.
51. Stone, J.J., Stetler, L.D., Schwalm, A., Environmental impacts from abandoned uranium mines in western South Dakota. Presented at the Association of Environmental Engineering and Science Professors Bi-Annual Conference, Blacksburg, VA, July 2007.
52. Porath\*, L., Mott, H.V., Clay, S., Stone, J.J., Effects of antimicrobials on swine manure degradation. Presented at the SDSM&T NSF-Research Experience for Undergraduates colloquium, Rapid City, SD, July 2007
53. Onyeukwu\*, K., Stetler, L.D., Stone, J.J., Assessment of wind- and soil-related hazards associated with abandoned uranium mines in the North Cave Hills, Harding County, South Dakota. Presented at the Association of Environmental and Engineering Geologist Regional Student Night 2007, Golden, CO, April 2007.
54. Stetler, L.D., Stone, J.J., Schwalm, A., Off-site impacts from abandoned uranium mines in the North Cave Hills, Harding County, South Dakota. Presented at the 86<sup>th</sup> annual meeting of the South Dakota Academy of Sciences, Brookings, SD, April 2007.
55. Stetler, L.D., Stone, J.J., Onyeukwu\*, K., Aerosol dust transport, deposition, and composition around abandoned uranium mines in the North Cave Hills, Harding County, South Dakota. Presented at the 2007 Western South Dakota Hydrology Conference, Rapid City, SD, April 2007.
56. Stetler, L.D., Stone, J.J., Groundwater quality near abandoned uranium mines in the North Cave Hills, Harding County, South Dakota. Presented at the 2007 Western South Dakota Hydrology Conference, Rapid City, SD, April 2007.
57. Stone, J.J., Stetler, L.D., Schwalm, A., Environmental impacts from the North Cave Hills abandoned uranium mines, Harding County, South Dakota. Presented at the 2007 Western South Dakota Hydrology Conference, Rapid City, SD, April 2007.

58. Stetler, L.D., Stone, J.J., Radionuclides and metals in groundwater near abandoned uranium mines in the North Cave Hills, Harding County, South Dakota. Presented at the 19<sup>th</sup> Annual South Dakota DENR Environmental and Groundwater Quality Conference, Pierre, SD, March 2007.
59. Wong\*, K., Stone, J.J., Clay, S., Degradation of Tylosin and Chlortetracycline during swine manure treatment. Presented at the Eastern South Dakota Water Conference, Brookings, SD, November 2006.
60. Stone, J.J., Stetler, L.D, Schwalm, A., Wintergerst, R., Walters-Clark, L., Study of Abandoned Uranium Mining Impacts on Private Lands Surrounding the North Cave Hills. Presented at the National Association of Abandoned Mine Lands Program 28th National Conference, Billings, MT, September 2006.
61. Bosse, C., Stone, J.J., Molybdenosis field study in North Cave Hills region impacted by abandoned uranium mines. Presented at the SDSM&T NSF-Research Experience for Teachers colloquium, Rapid City, SD, July 2006.
62. Farrand, M., Stone, J.J., Effect of antimicrobial agent Chlortetracycline during swine manure treatment. Presented at the SDSM&T NSF-Research Experience for Teachers colloquium, Rapid City, SD, July 2006.
63. Stone, J.J., Stetler, L.D, Schwalm, A., Wintergerst, R., Walters-Clark, L., Soil, water and air investigation concerning abandoned uranium mines in North Cave Hills region, Custer National Forest. Presented at the 2006 Western South Dakota Hydrology Conference, Rapid City, SD, April 2006.
64. Stone, J.J., The presence of pharmaceuticals and antimicrobial agents within the environment. Presented at the 18th Annual South Dakota DENR Environmental and Groundwater Quality Conference, Pierre, SD, March 2006.
65. Malladi\*, U., Sears, J., Stone, J.J., Assessing the environmental effects of processing with nanoparticles. Presented at the 2005 North Dakota, South Dakota EPSCoR Conference, Brookings, SD, September 2005.
66. Stone, J.J., K-12 student recruitment efforts for the BS Environmental Engineering program at SDSM&T. Presented at the Association of Environmental Engineering and Science Professors Bi-Annual Conference, Potsdam, NY, July 2005.
67. Stone, J.J., Pharmaceuticals in water supplies. Presented at the 2005 Western South Dakota Hydrology Conference, Rapid City, SD, April 2005.
68. Carpenter\*, S., Heglund, D., Stone, J.J., Detection of endocrine disrupting compounds in water samples. Presented at the 2005 South Dakota Student Research Poster Symposium, Pierre, SD, February 2005.
69. Paul\*, C., Stone, J.J., The effect of zinc and nickel on bioreduction of iron oxides. Presented at the 2005 South Dakota Student Research Poster Symposium, Pierre, SD, February 2005.
70. Sandvik, E., Kutil\*, N., Stone, J.J., Impact of natural organic matter on biological metal reduction. Presented at the annual Inland Research Alliance Conference, Spokane, WA, September 2004.
71. Kutil\*, N., Sandvik, E., Stone, J.J., The impact of nickel and zinc on Fe(III)-oxide bioreduction. Presented at the 2004 South Dakota Rushmore Regional Conference on Biocomplexity, Sioux Falls, SD, August 2004.
72. Stone, J.J., Burgos, W.D., Ruebush, S.S., Changes in microbial response for natural organic matter promoted metal inhibition during Fe(III)-oxide bioreduction. Presented at the 14th Annual Goldschmidt Geochemistry Conference, Copenhagen, Denmark, June 2004.
73. Stone, J.J., Laboratory studies for uranium remediation using biological U(VI) reduction. Presented at the South Dakota DENR 16th Annual Environmental and Groundwater Quality Conference, Pierre, SD, March 2004.
74. Stone, J.J., Burgos, W.D., Natural organic matter-promoted metal inhibition of hematite bioreduction. Presented at the American Geophysical Union Fall 2003 General Meeting, San Francisco, CA, December 2003.
75. Stone, J.J., Burgos, W.D., Royer, R.A. Effects of reactive surface area and DIRB concentrations on zinc inhibition during dissimilatory iron reduction of hematite. Presented at the American Society for Microbiology 102nd General Meeting, Salt Lake City, UT, May 2002.
76. Stone, J.J., Royer, R.A., Burgos, W.D., Dempsey, B.A., Yet, G.T., Roden, E.E., Effect of natural organic matter on zinc inhibition with *Shewanella putrefaciens* CN32. Presented at the US Department of Energy-NABIR PI Workshop, Warrenton, VA, March 2002
77. Stone, J.J., Burgos, W.D., Royer, R.A. Impact of zinc on biological reduction of hematite. Presented at the 6th International Conference on the Biogeochemistry of Trace Elements, Guelph, Ontario, Canada, July 2001.
78. Stone, J.J., Burgos, W.D., Royer, R.A. Impact of zinc on biological reduction of hematite using the dissimilatory iron reducing bacterium *Shewanella putrefaciens*. Presented at the 11th Annual Goldschmidt Geochemistry Conference, Hot Springs, VA, May 2001.
79. Stone, J.J., Burgos, W.D., Royer, R.A. Impact of zinc on biological reduction of hematite. Presented at the Allegheny Branch of the American Society for Microbiology Fall Meeting, State College, PA, October 2000.

80. Dempsey, B.A., Jeon, B.H., Stone, J.J., Royer, R.A., Burgos, W.D. Adsorption of Fe(II) & Zn(II) on ferric oxides. Presented at the 74th Colloid and Surface Science Symposium, Bethlehem, PA, June 2000.

#### INVITED LECTURES

1. National Parks Service Northern Great Plains Technical Committee Meeting, Rapid City, SD. "Assessment of atmospheric mercury deposition at select Northern Great Plains National Parks." January 2010.
2. SDSM&T Lunch-n-Learn, Rapid City, SD. "Sustainability." May 2009.
3. South Dakota Retired Teachers Association annual meeting, Pierre, SD. "Going GREEN for your grandkids (and what your grandkids may already be learning about at SDSM&T)." April 2009.
4. EPA Region 8 TMDL training workshop, Rapid City, SD. "South Dakota mercury TMDL development." March, 2009.
5. National Parks Service Northern Great Plains Technical Committee Meeting, Rapid City, SD. "South Dakota mercury TMDL project." December 2008.
6. South Dakota State University, Department of Plant Sciences Seminar Series, Brookings, SD. "Impact of antimicrobial compounds Tylosin and Chlortetracycline during swine manure treatment." February 2008.
7. University of Nebraska, Lincoln. Environmental Engineering Seminar Series, Lincoln, NE. "Impact of antimicrobial compounds Tylosin and Chlortetracycline during swine manure treatment." February 2008.
8. SDSM&T Geol/GeoE/Paleo Friday Afternoon Seminar, Rapid City, SD. "Impact of antimicrobial compounds Tylosin and Chlortetracycline during swine manure treatment." November 2007.
9. South Dakota Water and Wastewater Association 2007 Annual Water Seminar, Rapid City, SD. "Study of abandoned uranium mining impacts on private lands surrounding the North Cave Hills." February 2007.
10. South Dakota Engineering Society, Professional Development Hours, Fall 2006 conference, Rapid City, SD. "Study of abandoned uranium mining impacts on private lands surrounding the North Cave Hills." October 2006.
11. USDA/USFS Public informational meeting, Ludlow, SD. "Study of abandoned uranium mining impacts on private lands surrounding the North Cave Hills." October 2006
12. Black Hills State University, A to Z Science Seminar, Spearfish, SD. "Uranium and Hog Manure □ regional environmental research projects at SDSM&T." September 2006.
13. SDSM&T informational seminar for development of international service learning projects, Rapid City, SD. "Rwanda EWB project - May 2005." September 2006.
14. SDSM&T NSF-Research Experience for Teachers brown bag seminar, Rapid City, SD. "Environmental Engineering Research at SDSM&T." July 2006.
15. South Dakota Wastewater Association spring workshop, Oakoma, SD. "Solutions for Rwanda." April 2006.
16. Bi-annual North Dakota, South Dakota, and Minnesota Surface Water Treatment Workshop, Fargo, ND. "The Presence of Pharmaceuticals and Antimicrobial Agents within the Environment." April 2006.
17. USDA/USFS Public informational meeting. Buffalo, SD. "Study of abandoned uranium mining impacts on private lands surrounding the North Cave Hill." March 2006.
18. SDSM&T Academic Advisory Board, Rapid City, SD. "International senior design efforts." October 2005
19. South Dakota Engineering Society, Professional Development Hours, Fall 2005 conference, Pierre, SD. "Solutions for Muramba, Rwanda: Rainwater Catchment Implementation May, 2005." September 2005.
20. South Dakota Engineering Society monthly meeting, Rapid City, SD. "Environmental effects of Hurricane Katrina." September 2005.
21. South Dakota State University Microbiology Seminar Series, Center for Biocomplexity Studies, Brookings, SD. "The effect of heavy metals during biological Fe(III)-oxide and U(VI) reduction. " September 2005.
22. SDSM&T Native American SKILS summer program, Rapid City, SD. "Solutions for Muramba, Rwanda: Rainwater Catchment Implementation May, 2005." June 2005
23. South Dakota American Water Works Association annual spring meeting, Pierre, SD. "Pharmaceuticals in water supplies." February 2005.
24. SDSM&T NSF-Research Experience for Undergraduates brown bag seminar, Rapid City, SD. "Heavy metal induced inhibition during the biological reduction of Fe(III)-oxides." June 2004.
25. Black Hills State University, A to Z Science Seminar, Spearfish, SD. "Metal/microbe interactions controlling heavy metal and radionuclide bioremediation efforts." February 2004.
26. SDSM&T informational seminar for development of international service learning projects, Rapid City, SD. "International senior projects: new possibilities for Tech faculty and students." December 2004.

## CURRENT RESEARCH SUPPORT

1. Watershed retention and transformation of arsenic and uranium by iron minerals from historical South Dakota uranium mining operations, Stanford Synchrotron Radiation Lightsource user, Molecular Environmental & Interface Science, May 2009 to December 2010, PI: Borch, T., Colorado State University, co-PI: Stone, J.J.
2. Swine facility life cycle assessment model development, South Dakota Corn Council (South Dakota State University sub-award), August 2010 to June 2011, PI: Stone, J.J. (\$20,000).
3. Assessment of Atmospheric Mercury Deposition at Select Northern Great Plains National Parks Service Locations, National Parks Services and Great Plains Cooperative Ecosystem Studies Unit, January 2010 to December 2011, PI: Stone, J.J. (\$33,033).
4. Phase I: Data Collection and Assessment for Mercury TMDL Development, South Dakota Department of Environment and Natural Resources, May 2009 to December 2010. PI: Stone, J.J., (\$22,603)
5. Phase I: Data Collection and Assessment for Mercury TMDL Development, South Dakota Department of Environment and Natural Resources, May 2008 to December 2010, PI: Stone, J.J., (\$265,424), co-PI: Stetler, L.D., Sundareshwar, P.V., SDSM&T, Chippis, S., South Dakota State University, Penn, M., University of Wisconsin-Platteville.
6. Extent of off-site uranium contamination from Black Hills National Forest abandoned uranium minesites, US Environmental Protection Agency Region 8, US Department of Agriculture, and US Forest Service - Northern Region Office, August 2010 to December 2012, PI: Stone, J.J. (\$98,500)
7. Extent of off-site uranium contamination from Custer National Forest abandoned uranium minesites, US Environmental Protection Agency Region 8, US Department of Agriculture, and US Forest Service - Northern Region Office, March 2006 to December 2010, PI: Stone, J.J. (\$600,000), co-PI: Stetler, L.D., SDSM&T, Schwalm, A., Oglala Lakota College.

## PAST EXTERNAL RESEARCH SUPPORT

1. Degradation of antimicrobial agents Tylosin and Chlortetracycline during swine waste treatment, supplemental Research Experience for Undergraduate student support, National Science Foundation, Chemical, Bioengineering, Environmental, and Transport Systems division, Environmental Engineering Program, July 2006 to June 2010, PI: Stone, J.J. (\$6,000), co-PI: Clay, S., Thaler, R., South Dakota State University
2. Degradation of antimicrobial agents Tylosin and Chlortetracycline during swine waste treatment, National Science Foundation, Chemical, Bioengineering, Environmental, and Transport Systems division, Environmental Engineering Program, July 2006 to June 2010, PI: Stone, J.J. (\$201,974), co-PI: Clay, S., Thaler, R., South Dakota State University.
3. Degradation of antimicrobial agents Tylosin and Chlortetracycline during swine waste treatment, supplemental Research Experience for Undergraduate student support, National Science Foundation, Chemical, Bioengineering, Environmental, and Transport Systems division, Environmental Engineering Program, July 2006 to June 2010, PI: Stone, J.J. (\$6,000), co-PI: Clay, S., Thaler, R., South Dakota State University.
4. Swine facility life cycle assessment model development, South Dakota Corn Council (South Dakota State University sub-award), August 2009 to June 2010, PI: Stone, J.J. (\$20,000).
5. Assessment of Atmospheric Mercury Deposition at Select Northern Great Plains National Parks Service Locations, National Parks Services and Great Plains Cooperative Ecosystem Studies Unit, July 2008 to December 2009, PI: Stone, J.J. (\$33,353).
6. Evaluating time-series remotely sensed data sets in the estimation of crop yields and the resulting environmental impacts via life-cycle analysis, South Dakota NASA EPSCoR, April 2009 to May 2010, PI: Hansen, M., South Dakota State University, co-PI: Clay, S.A., South Dakota State University, Stone, J.J. (\$10,000)
7. Acquisition of a kinetic phosphorescence analyzer for uranium-focused research and education, National Science Foundation, Division of Earth Sciences, Instrumentation and Facilities Program, NSF 07-553, July 2008. PI: Sani, R. (\$48,750), co-PIs: Stone, J.J., Stetler, L.D., SDSM&T.
8. Furthering uranium and heavy metal remediation capacities through applied research, South Dakota 2010

- Individual Seed Grant Program, August 2005 to August 2006. PI: Stone, J.J. (\$63,992).
9. Acquisition of equipment cluster to strengthen a multi-disciplinary regional biogeochemistry core facility for research and training, National Science Foundation, Division of Biological Infrastructure, Major Research Instrumentation, June 2005 to June 2006. PI: Dr. Sundareshwar (\$269,857), Co-PIs: Stone, J.J., Kenner, S., Zimmerman, P, SDSM&T.
  10. Natural organic matter-promoted metal inhibition of biological Fe(III) reduction, South Dakota EPSCoR Rushmore CAREER grant, January 2004 to December 2004, PI: Stone, J.J. (\$65,000).

#### PAST INTERNAL RESEARCH SUPPORT

1. Biodegradation of polycyclic aromatic hydrocarbons under thermophilic conditions, SDSM&R Nelson Research Grant FY'07, February 2006 to December 2007. PI: Sani, R. (\$5,000), Co-PIs: Stone, J.J., Bang, S., SDSM&T.
2. Acquisition of field and laboratory instrumentation, SDSM&T FY'06 Budget Request, April 2005, PI: Stone, J.J. (\$10,000), co-PI: Sundareshwar, P.V., SDSM&T.
3. Monitoring of Pharmaceuticals and Personal Care Products within Rapid City's Drinking Water Supply and Wastewater Treatment Facility. SDSM&T Nelson Research Grant FY'04. February 2004 to May 2005, PI: Stone, J.J. (\$5,000), Co-PI: Heglund, D., SDSM&T.

#### COURSES

1. CEE/EnvE 326, Introductory Environmental Engineering Design, undergraduate level, once per year.
2. CEE/EnvE 327, Environmental Engineering Design, undergraduate level, once per year.
3. CEE/EnvE 327L, Environmental Engineering Design Laboratory, undergraduate level, once per year.
4. CEE 425/525, Sustainable Engineering, graduate and undergraduate level, one semester.
5. CEE/EnvE 426/526, Environmental Engineering Physical and Chemical Process Design, graduate and undergraduate level, once per year.
6. CEE/EnvE 426L/526L, Environmental Engineering Physical and Chemical Process Design Laboratory, graduate and undergraduate level, once per year.
7. CEE/EnvE 428/528, Advanced Treatment Plant Design, graduate and undergraduate level, one semester (1/3 of course).
8. CEE/EnvE 692, Environmental Remediation, graduate level, one semester (1/3 of course).
9. EM 328, Applied Fluid Mechanics, undergraduate level, once per year.
10. EnvE 290, Environmental Engineering Seminar, undergraduate level, one semester.
11. EnvE 464, Environmental Engineering Senior Design, undergraduate level, two semesters.
12. EnvE 465, Environmental Engineering Senior Design, undergraduate level, one semester.

#### TEACHING SUPPORT

1. "Teaching LCA - Integrated educational package" teaching workshop, Life Cycle Assessment IX conference, Boston, MA. September 2009.
2. "Frontiers in Environmental Engineering Education" teaching workshop, sponsored by the National Science Foundation, Arizona State University, Tempe, AZ. January 2007.
3. "Sustainability Workshop" sponsored by the National Science Foundation, Center for Sustainable Engineering, Carnegie Mellon University, Pittsburgh, PA. July 2006.
4. "How to Engineer Engineering Education." Bucknell University, Lewistown, PA. July 2005.
5. "Early CAREER Geosciences Faculty: Teaching, Research, and Managing Your Career Workshop" sponsored by the National Science Foundation, College of William and Mary, Williamsburg, VA. June 2004.

#### GRADUATE THESES

1. Albertus-Benham, A., 2009. Surface water and sediment investigation concerning abandoned uranium mines within the Slim Buttes region, Harding County, South Dakota. M.S. Thesis. Thesis Committee: Mott, H, Civil and Environmental Engineering, Stetler, L., Geology and Geological Engineering, SDSM&T.
2. Betemarian, H., 2010. Sediment mercury geochemical behavior and watershed influences for South Dakota lakes and impoundments M.S. Thesis. Thesis Committee: Stetler, L., Davis, A., Sawyer, F., Geology and

- Geological Engineering, SDSM&T.
3. Dreis, E., 2010. The effects of antimicrobial agents CTC and tylosin on manure land application. M.S. Thesis. Thesis Committee: Mott, H, Civil and Environmental Engineering, Gilcrease, P., Chemical and Biological Engineering, SDSM&T.
  4. Kipp, G., 2009. Metals transport in sediments near abandoned uranium mines in Harding County, South Dakota. M.S. Thesis. Thesis Committee: Mott, H., Civil and Environmental Engineering, Stetler, L., Davis, A., Sawyer, F., Geology and Geological Engineering, SDSM&T.
  5. Larson, L., 2010. Arsenic and uranium fate and transport within a historical U mining impacted watershed, Harding County, SD. M.S. Thesis. Thesis Committee: Mott, H., Civil and Environmental Engineering, Sani, R., Chemical and Biological Engineering, SDSM&T.
  6. Malladi, U., 2006. Assessing the Environmental Impact of Processing with Silver Nanoparticles on M3D System. M.S. Thesis. Thesis Committee: Mott, H, Civil and Environmental Engineering, Sears, J., Additive Manufacturing Laboratory, SDSM&T.
  7. McCutcheon, C., 2009. Relations between water quality and mercury fish tissue concentrations in South Dakota lakes and impoundments. M.S. Thesis. Thesis Committee: Mott, H., Civil and Environmental Engineering, Stetler, L., Geology and Geological Engineering, SDSM&T.
  8. Paul, C., 2006. Effects of metals during biological hematite reduction, in the presence and absence of soil humic acid, by *Shewanella putrefaciens* CN32. M.S. Thesis. Thesis Committee: Mott, H., Civil and Environmental Engineering, Gilcrease, P., Bang, S., Chemical and Biological Engineering, SDSM&T.
  9. Tuombe, E., 2008. Surface water and sediment investigation concerning abandoned uranium mines in the South Cave Hills, North Cave Hills, and Flint Buttes region, Harding County, South Dakota. M.S. Thesis. Thesis Committee: Mott, H., Civil and Environmental Engineering, Stetler, L., Geology and Geological Engineering, SDSM&T.
  10. Wong, K., 2007. Development of headspace solid phase microextraction - Flame ionization gas chromatography procedure for analysis of short chain volatile fatty acids in swine manure. M.S. Thesis. Thesis Committee: Mott, H., Civil and Environmental Engineering, Sani, R., Chemical and Biological Engineering, SDSM&T.
1. Delzer, G., in progress. Occurrence of potential hormonally active compounds in public water supplies and domestic wells of the United States. Ph.D. Dissertation.
  2. Malladi, Y., in progress. Impacts of antimicrobial agents CTC and Tylosin on carbon and electron balances during anaerobic swine manure degradation. M.S. Thesis.
  3. Pfeifle, B., in progress. Arsenic fate and transport within the Whitewood Creek, Belle Fourche, and Cheyenne River watersheds. M.S. Thesis.
  4. Sharma, R., in progress. Uranium mining impacts for the Black Hills National Forest. Ph.D. Dissertation.
  5. Tompkins, T., in progress. The effects of antimicrobial agents CTC and tylosin on swine manure sequencing batch reactor operations. M.S. Thesis.

## STUDENT AWARDS

1. Kipp, G., South Dakota Associated of Engineering Professionals scholarship (\$1,000), 2009.
2. Betemarian, H., South Dakota Associated of Engineering Professionals scholarship (\$300), 2009.
3. Tuombe, E., Ivanhoe Excellence Awards for Graduate Education (\$2,500 fellowship), SDSM&T, 2007.
4. Wong, K., Ivanhoe Excellence Awards for Graduate Education (\$2,500 fellowship), SDSM&T, 2006.

## PROFESSIONAL ACTIVITIES

### Member

- American Chemical Society (ACS), 2005-present
- American Geophysical Union (AGU), 2005-present
- American Water Works Association (AWWA), 2005-present
  - Chair, Executive Council of the South Dakota Section of AWWA, 2008-2009
- Association of Environmental Engineering and Science Professors (AEESP), 2003-present
  - Member, Committee on Primarily Undergraduate and Master's Programs, 2007-present
- Water Environment Association (WEA), 2005-present

#### Journal Reviewer

*American Society of Civil Engineering (ASCE): Practice Periodical of Hazardous, Toxic, and Radioactive Waste Management, ASCE: Journal of Environmental Engineering, Chemical Engineering Journal, Chemosphere, Environmental Engineering Science, Environmental Science and Technology, International Journal of Hydrogen Energy, The Journal of Engineering for Sustainable Development: Energy, Environment and Health, Geoderma, The Journal of Weather Modification, Soil Biology and Biochemistry, Water Environment Research, Water Research, Bioresource Technology, Water, Air, and Soil Pollution, Science of the Total Environment*

#### Proposal Review

National Science Foundation  
Analytical and Surface Chemistry Program  
Lindbergh Foundation

#### Panel Review

National Science Foundation, Chemical, Bioengineering, Environmental, and Transport Systems Division, 2007, 2009.

#### Moderator

18<sup>th</sup> Annual South Dakota DENR Environmental and Groundwater Quality Conference, Pierre, SD, March 2006.

#### Registration

Professional Engineer: State of Colorado, 1999-present  
OSHA 40hr, 1998  
MSHA 40hr, 1998