

CURRICULUM VITAE

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University of the Pacific
Ecological Engineering Research Program
School of Engineering & Computer Science
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Stockton, CA 95211

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Education

Ph. D., Environmental Sciences & Engineering (minor: Microbial Physiology & Genetics),
University of North Carolina at Chapel Hill, 1994.

M. S., Microbiology (minor: Aquatic Ecology), Virginia Polytechnic Institute & State
University, 1984.

B. S., Environmental Health, University of Georgia, 1980.

Professional Experience

Professor & Director, EERP, 2009 to present: University of the Pacific, Ecological
Engineering Research Program, School of Engineering & Computer Science, Stockton, CA

Environmental Engineer, 1996 to present: Lawrence Berkeley National Laboratory, Energy
Geosciences Division, Earth & Environmental Sciences Area, Berkeley, CA

Associate Professor & Director, EERP, 2004 to 2009: University of the Pacific, Ecological
Engineering Research Program, School of Engineering & Computer Science, Stockton, CA

Visiting Professor, 2007 (fall semester): University of California, Berkeley, Department of
Civil & Environmental Engineering, Berkeley, CA

Postdoctoral Researcher, 1994 to 1996: University of California, Berkeley, Department of
Civil & Environmental Engineering, Berkeley, CA

Graduate Research Assistant (Ph.D. Candidate), 1990 to 1994: University of North Carolina
at Chapel Hill, Department of Environmental Sciences & Engineering, Chapel Hill, NC

Stagiaire (Visiting Researcher), 1988 to 1989: Institute Pasteur, Departement d'Ecologie,
Paris, France

Senior Research Microbiologist, 1983 to 1988: Sybron Chemicals, Inc., Salem Research
Facility, Salem, Virginia

Graduate Research & Teaching Assistant (M.S. Candidate), 1981 to 1983: Virginia Polytechnic Institute & State University, Department of Microbiology & the Center for Aquatic Ecology, Blacksburg, Virginia

Hazardous Waste Site Investigator, 1980 to 1981: Ecology & Environment, Inc., Decatur, Georgia

Project Grants

Principal Investigator for “Independent Technical Assistance for Management and Treatment of Groundwater and Drinking Water” Office of Sustainable Water Solutions, State Water Resources Control Board. 01/17 – 06/20. \$5,000,000 (Pending)

Principal Investigator for “Scientific Support for The Department of Oil Gas and Geothermal Regulation & the California National Resources Agency” California National Resources Agency. 01/16 – 06/17. \$202,418

Principal Investigator for “U.S.-China Clean Energy Research Center for Water and Energy Technologies (CERC-WET). Topic Area 2: Treatment and Management of Non-Traditional Waters. Project 2.6: Geochemical approaches for managing non-traditional waters.” U.S. Department of Energy. 10/15 – 9/20. \$647,214

Principal Investigator for “Environmental Impact of Chemical Use in Oil & Gas Development.” Lawrence Berkeley National Laboratory, Laboratory Research & Development (LDRD) Fund. 10/15 – 9/17. \$200,000

Principal Investigator for “Strategic Planning & Technical Support for Pomace Management.” E & J Gallo Winery, Livingston, CA. 10/15 – 09/16. \$17,337

Principal Investigator for “Investigation of Anaerobic Digestion of Winery Wastes to Support Optimized Operation of a Full-Scale System.” E & J Gallo Winery, Livingston, CA. 2/13 – 2/15. \$99,581

Lead Scientist & Principal Investigator for “San Joaquin River Dissolved Oxygen Total Maximum Daily Load Project (SJR DO TMDL Project)” California Department of Fish and Game Ecosystem Restoration Program. 11/10 – 12/13. \$2,992,933

Lead Scientist & Principal Investigator for “Combined Heat and Power Unit Research on Emissions Control Technologies.” California Energy Commission, Sacramento, CA. 2/11 – 2/13. \$1,500,000

Lead Scientist & Principal Investigator for “Fiscalini Farms Renewable Energy Research Project of the Use of Co-digestion for Biogas Production.” California Energy Commission, Sacramento, CA. 2/11 – 2/13. \$535,648

Principal Investigator for Characterization of Aqueous and Non-Aqueous Samples from the San Andreas Fault Observatory at Depth (SAFOD). National Science Foundation. 11/10 – 2/11. \$7,800

Principal Investigator for “Challenge Grant: San Joaquin River National Wildlife Refuge Study.” US Fish & Wildlife Service, Los Banos, CA. 8/10 – 2/11. \$20,000

Lead Scientist & Principal Investigator for “Fiscalini Farms Renewable Energy Power Generation Project.” US Department of Energy Industrial Technologies Program, National Energy Technology Program. 8/09 – 7/11. \$779,300

Principal Investigator for “Water Quality Survey in Support of the Vernalis Adaptive Management Plan (VAMP).” San Joaquin River Group Authority, Sacramento, CA. 4/08 – 10/08. \$70,000

Principal Investigator for “Continuous Monitoring of Irrigation Drainage Flow and Water Quality in West Stanislaus County, CA.” San Joaquin Valley Drainage Authority, Los Banos, CA. 06/07 – 08/11. \$80,000

Principal Investigator for “Assessment of Riparian Wetlands as Buffer Zones for Water Quality in the San Joaquin River.” California Department of Water Resources Watershed Grant Program, Sacramento, CA. 6/06 – 6/09. \$399,980

Lead Scientist & Principal Investigator for “Agricultural Discharge Management Program Monitoring and Evaluation – West Stanislaus County.” State Water Resources Control Board 2003 Consolidated Grants Program, Sacramento, CA. 8/05 – 7/08. \$1,400,000

Principal Investigator for “Evaluating the Drinking Water Impact of Wetland Derived Organic Carbon.” State Water Resources Control Board 2003 Consolidated Grants Program, Sacramento, CA. 7/05 – 5/08. \$465,750

Chief Principal Investigator for “CALFED Directed Action Proposal For Monitoring and Investigation of the San Joaquin River and Tributaries Related to Dissolved Oxygen.” CALFED Ecosystem Restoration Program, Sacramento, CA. 10/04 – 7/08. \$6,886,960

Principal Investigator for “San Luis Drain Algal TOC Control Project.” CALFED Drinking Water Quality Program, Sacramento, CA. 5/04 – 3/06. \$145,680

Principal Investigator for “Biocatalytic Alkane Transformation for Viscosity Reduction.” Natural Gas & Oil Technology Partnership, Downstream Environmental Technology Program, Department of Energy. 03/02 - 03/05. \$300,000

Principal Investigator for “Discriminating Between Westside Sources of Nutrients and Organic Carbon Contributing to Algal Growth and Oxygen Demand in the San Joaquin River.” CALFED Bay-Delta Program, Sacramento, CA. 6/01 – 6/02. \$176,411

Principal Investigator for “Biodegradation of Tritiated Organic Mixed Waste.” Office of Science and Technology, EM50-Mixed Waste Focus Area, Department of Energy. 3/01 – 3/03. \$240,000

Principal Investigator for “Biodegradation of Organic Chemicals in the HPLC Mixed Waste Stream.” Environmental Health and Safety Division, Lawrence Berkeley National Laboratory, Department of Energy. 10/00 – 10/01. \$95,000

Principal Investigator for "Fundamental Investigation of Methyl *tert*-Butyl Ether Biodegradation." Kinder Morgan Energy Partners, Orange, CA. 12/98 - 12/00. \$271,656

Principal Investigator for "Biological Upgrading of Heavy Oils for Viscosity Reduction." Natural Gas & Oil Technology Partnership, Downstream Environmental Technology Program, Department. of Energy. 11/98 - 11/01. \$535,000

Principle Investigator for "Investigation of the Aerobic Biodegradation of Methyl *tert*-Butyl Ether." Vista Canyon Group, Orange, CA. 1/98 - 1/01. \$112,980

Principle Investigator for “Development of Mixed Waste Bioremediation: Biodegradation of Complexing Agent, Ketone, and Heavy Metal Mixtures.” Laboratory Directed Research and Development Program, Department. of Energy. 10/96 - 9/99. \$415,000

Co-author of proposal “Biological Transformations of Polynuclear Aromatic Hydrocarbons.” Chevron Research and Technology Company, Richmond, CA. 6/94 - 12/96. \$120,000

Co-author of proposal “Role of Biosurfactants in the Biodegradation of Hydrophobic Pollutants by Indigenous Microorganisms in Soil.” United States Geological Survey and Univ. of North Carolina Water Resources Research Institute. 8/91 - 1/95. \$348,631

Teaching Experience

Ecological Engineering, School of Engineering & Computer Science, University of the Pacific, Stockton, Spring 2012, 2014, 2016

Industrial Waste Treatment & Management, School of Engineering & Computer Science, University of the Pacific, Stockton, Spring 2010, 2011, 2013, 2015

Microbiology for Engineers, School of Engineering & Computer Science, University of the Pacific, Stockton, Fall 2009, 2010, 2011, 2013, 2014, 2015

Managing Science, Technology & Innovation, School of Engineering & Computer Science, University of the Pacific, Stockton, Fall 2012, 2013, 2014, 2015, 2016

Techniques in Research, School of Engineering & Computer Science, University of the Pacific, Stockton, Fall 2016

Bioremediation & Advanced Techniques in Microbial Engineering, School of Engineering & Computer Science, University of the Pacific, Stockton, Fall 2010, Spring 2015, 2016

Scientific & Technical Writing, School of Engineering & Computer Science, University of the Pacific, Stockton, Spring 2013

Environmental Impacts of Mining & Mineral Extraction (Short course), Chinese University of Mining & Technology, Xuzhou, Jiangsu, P. R. China, Spring 2013

Water Resources, School of Engineering & Computer Science, University of the Pacific, Stockton, Fall 2012

Environmental Microbiology, Department of Civil & Environmental Engineering, University of California, Berkeley, Fall 2007

Hydrologic Analysis & Design, School of Engineering & Computer Science, University of the Pacific, Fall 2006

Introduction to Environmental Engineering, School of Engineering & Computer Science, University of the Pacific, Spring 2006

Water Resources (Guest Lecture), Department of Civil & Environmental Engineering, University of California Berkeley, Fall 2005

Microbiology for Engineers (Guest Lecture), Department of Civil & Environmental Engineering, University of California Berkeley, Spring 2003, 2004

Graduate Research Advisor, School of Engineering & Computer Science, University of the Pacific, Stockton, 2010 to present

Graduate Research Advisor, Department of Civil & Environmental Engineering, University of California Berkeley, 1999 to 2013

Undergraduate Research Advisor, Environmental Sciences Program, University of California Berkeley, 1997 to 2009

Undergraduate Research Advisor, Center for Science & Engineering Education, US Department of Energy, 1998 to 2009

Conference Organization

Panel Moderator, Workshop on Use of Flowback & Produced Water: Opportunities and Challenges for Innovation, Unconventional Hydrocarbon Roundtable, National Academy of Sciences, Washington, DC, May 25-26, 2016.

Co-Chair of Organizing Committee, Symposium on Environmental Aspects of Unconventional Oil & Gas Production & Hydraulic Fracturing at the 251st American Chemical Society National Meeting & Exposition, San Diego, California, March 14 - 17, 2016.

Chair of Organizing Committee, 13th IWA Specialist Conference on Watershed & River Basin Management, San Francisco, CA, September 9 – 12, 2014.

Session Chair, “Bioremediation and Phytoremediation of Other Contaminants,” 2001 International Containment and Remediation Technology Conference, Orlando, FL. June 11, 2001

Session Chair, “Natural Attenuation of MTBE,” In-Situ and On-Site Bioremediation Sixth International Symposium, San Diego, CA. June 7, 2001

Committee Service

Secretary, Management Committee, Watershed & River Basin Management Specialist Committee, International Water Association, September 2014 to present.

Expert Advisor, Food Safety/Oil Field Wastewater Reuse Expert Panel, Central Valley Regional Water Quality Control Board, Rancho Cordova, CA, March 2016 to present.

Member, Water & Energy Project Executive Council, Lawrence Berkeley National Laboratory, December 2015 to present.

Member, Management Committee, Watershed & River Basin Management Specialist Committee, International Water Association, September 2011 to September 2014.

Member, San Joaquin River Dissolved Oxygen Total Maximum Daily Load Technical Advisory Committee, October 2000 to 2009

Member, Real-time Salt and Nutrient Drainage Load Reduction Strategies Technical Advisory Committee, November 2005 to 2009

Member, Earth Sciences Division Environmental Health and Safety Committee, September 1999 to June 2004

Member, Lawrence Berkeley National Laboratory Biological Safety Committee, May 2002 to November 2003

Editorial & Reviewer Service

Editor, Journal Editorial Board, Clean Technology & Environmental Policy, April 2007 to present

Reviewer, Alfred P. Sloan Foundation, Energy & Environment Program, 2016 to present

Reviewer, University of the Pacific Seed Grant Program, 2011 to present

Reviewer, Bureau of Reclamation's Science and Technology Program, 2004 to 2009

Reviewer, *Canadian Journal of Civil Engineering*, 2016 to present

Reviewer, *Water Environment Research*, 1995 to present

Reviewer, *Journal of Coastal Research*, 2014 to present

Reviewer, Environmental Science & Technology, 2000 to present
Reviewer, Water Science & Technology, 2000 to present
Reviewer, American Geophysical Union Books, 2001 to present
Reviewer, Applied Biochemistry & Biotechnology, 2001 to 2009
Reviewer, Waste Management Journal, 2001 to 2012
Reviewer, Clean Technology & Environmental Policy, 2005 to present
Reviewer, Grant Program, US Army Office of Research, 2006 to present
Reviewer, Grant Program, Oregon Sea Grant, 2007 to 2010
Reviewer, Kuwait Journal of Science & Engineering, 2007
Reviewer, Agriculture Water Management, 2009 to present
Reviewer, Bioremediation Journal, 1998 to 2004
Reviewer, Journal of Environmental Management, 2009 to present
Reviewer, African Journal of Pure & Applied Chemistry, 2012

Teaching & Research Awards

Spot Award for Outstanding Work, SB4 Scientific Investigation of Hydraulic Fracturing in California, Lawrence Berkeley National Laboratory, 2015
Spot Award for Outstanding Work, Environmental Impacts of Hydraulic Fracturing on Federal (BLM) Lands in California, Lawrence Berkeley National Laboratory, 2014
Outstanding Mentor Award, Lawrence Berkeley National Laboratory, 2001
Outstanding Mentor Award, Department of Energy, 2002

Professional Societies

International Water Association
Association of Environmental Engineering & Science Professors
American Ecological Engineering Society
American Society of Agricultural & Biological Engineers
American Geophysical Union
Water Environment Federation
Ecological Society of America (Inactive)
American Society of Agronomy (Inactive)
Society for Environmental Toxicology & Chemistry (Inactive)

Journal Publications

1. Stringfellow, W. T., M. K. Camarillo, J. K. Domen, W. L. Sandelin, C. Varadharajan, P. D. Jordan, M. T. Reagan, H. Cooley, M. G. Heberger, and J. T. Birkholzer. 2016. Identifying chemicals of concern in hydraulic fracturing fluids used for oil production. *Environmental Pollution* (in press, <http://dx.doi.org/10.1016/j.envpol.2016.09.082>)
2. Camarillo, M. K., J. K. Domen, W. T. Stringfellow. 2016. Physical-chemical evaluation of hydraulic fracturing chemicals in the context of produced water treatment. *J. Environ. Management* 183: 164 - 174.

3. Camarillo, M. K., G. A. Weissmann, S. Gulati, J. Herr, S. Sheeder, and W. T. Stringfellow. 2016. Pairing long-term continuous data and a link-node model to manage dissolved oxygen impairment in a dredged estuary. *Environmental Monitoring and Assessment*, 188: 8: 1 - 18.
4. Gulati, S., A. A. Stubblefield, J. S. Hanlon, C. L. Spier, M. K. Camarillo, W. T. Stringfellow. 2016. Evaluation of watershed-derived mass loads to prioritize TMDL decision-making. *Water Science & Technology* 73: 3: 654-661.
5. Wang, W. X., W. H. Sui, B. Faybishenko, W. T. Stringfellow. 2016. Permeability variations within mining-induced fractured rock mass and its influence on groundwater inrush. *Environ. Earth Sci.* 75:326
6. Feng, C., H. Sun, S. Li, M.K. Camarillo, W.T. Stringfellow, Y. Liang. 2015. Treatment of oil–water emulsion from the machinery industry by Fenton's reagent. *Water Science & Technology* 71: 12: 1884-1892.
7. Piceno, Y. M., F. C. Reid, L. M. Tom, M. E. Conrad, M. Bill, C. G. Hubbard, B. W. Fouke, C. J. Graff, J. Han, W. T. Stringfellow, J. S. Hanlon, P. Hu, T. C. Hazen, G. L. Andersen. 2014. Temperature and injection water source influence microbial community structure in four Alaskan North Slope hydrocarbon reservoirs. *Frontiers in Microbiology* 5:409
8. Stringfellow, W. T., M. K. Camarillo, W. L. Sandelin, J. K. Domen, S. Borglin. 2014. Physical, chemical, and biological characteristics of compounds used in hydraulic fracturing. *Journal of Hazardous Materials* 275: 37–54.
9. Mason, O. U., N. M. Scott, A. Gonzalez, A. Robbins-Pianka, J. Bælum, J. Kimbrel, N. J. Bouskill, E. Prestat, S. Borglin, D. C. Joyner, J. L. Fortney, D. Jurelevicius, W. T. Stringfellow, L. Alvarez-Cohen, T. C. Hazen, R. Knight, J. A. Gilbert, J. K. Jansson. 2014. Metagenomics reveals sediment microbial community response to Deepwater Horizon oil spill. *International Society for Microbial Ecology Journal* 8 (7): ISSN: 1751-7370.
10. Domen, J. K., W. T. Stringfellow, M. K. Camarillo, S. Gulati. 2014. Fog water as an alternative and sustainable water resource. *Clean Technologies & Environmental Policy* 16 (2): 235–249.
11. Gulati, S., A. A. Stubblefield, J. S. Hanlon, C. L. Spier, W. T. Stringfellow. 2014. Use of continuous and grab sample data for calculating total maximum daily load (TMDL) in agricultural watersheds. *Chemosphere* 99: 81–88.
12. Dubinsky, E. A., M. E. Conrad, R. Chakraborty, M. Bill, S. E. Borglin, J. T. Hollibaugh, O. U. Mason, Y. M. Piceno, F. C. Reid, W. T. Stringfellow, L. M. Tom, T. C. Hazen, G. L. Andersen. 2013. Succession of hydrocarbon-degrading bacteria in the aftermath of the Deepwater Horizon Oil Spill in the Gulf of Mexico. *Environmental Science & Technology* 47 (19): 10860–10867.
13. Camarillo, M. K., W. T. Stringfellow, J. S. Hanlon, E. Basha. 2013. Performance of collection system odor control devices operating in diverse conditions. *Water Science & Technology* 68:12: 2527-2533.
14. Camarillo, M. K., W. T. Stringfellow, C. L. Spier, J. S. Hanlon. 2013. Salinity and nutrient considerations for anaerobic digestion of dairy manure, plant biomass, and agricultural wastes at a full-scale facility. *J. Environmental Management* 128: 233 - 242.
15. Camarillo, M. K., W. T. Stringfellow, J. S. Hanlon, K. A. Watson. 2013. Investigation of selective catalytic reduction for control of nitrogen oxides in full-scale dairy energy production. *Applied Energy* 106: 328-336.

16. Karpuzcu, M. E., D. L. Sedlak, W. T. Stringfellow. 2013. Biotransformation of chlorpyrifos in riparian wetlands in agricultural watersheds: implications for wetland management. *J. Hazardous Materials* 224-225: 111-120.
17. Spier, C. L., W. T. Stringfellow, T. C. Hazen, M. E. Conrad. 2013. Distribution of hydrocarbons released during the 2010 MC252 oil spill in deep offshore waters. *Environmental Pollution* 173: 224-230.
18. Stringfellow, W. T., M. E. Karpuzcu, C. Spier, J. S. Hanlon, J. Graham. 2012. Determination of land area requirements for mitigation wetlands in agricultural watersheds. *Water Science & Technology* 67:1: 40-46.
19. Camarillo, M. K., W. T. Stringfellow, M. B. Jue, J. S. Hanlon. 2012. Economic sustainability of a biomass energy project located at a dairy in California, USA. *Energy Policy* 48: 790–798.
20. Karpuzcu, M. E. W. T. Stringfellow. 2012. Kinetics of nitrate removal in wetlands receiving agricultural drainage. *Ecological Engineering* 42: 295-303.
21. Volkmar, E. C., R. A. Dahlgren, W. T. Stringfellow, S. S. Henson, S. E. Borglin, Carol Kendall, E. E. Van Nieuwenhuysse. 2011. Using Lagrangian sampling to study water quality during downstream transport in the San Luis Drain, California, USA. *Chemical Geology* 283 (1-2): 68-77.
22. Hazen, T. C., E. A. Dubinsky, T. Z. DeSantis, G. L. Andersen, Y. M. Piceno, N. Singh, J. K. Jansson, A. Probst, S. E. Borglin, J. L. Fortney, W. T. Stringfellow, M. Bill, M. S. Conrad, L. M. Tom, K. L. Chavarria, T. R. Alusi, R. Lamendella, D. C. Joyner, C. Spier, J. Baelum, M. Auer, M. L. Zemla, R. Chakraborty, E. L. Sonnenthal, P. D'haeseleer, H.-Y. N. Holman, S. Osman, Z.i Lu, J. D. Van Nostrand, Y. Deng, J. Zhou, O. U. Mason. 2010. Deep-Sea oil plume enriches indigenous oil-degrading bacteria. *Science* 330 (6001): 204-208.
23. Stringfellow, W. T., R. Jain. 2010. Engineering the global ecosystem. *Clean Technol. Environ. Policy* 12 (3):197–203.
24. Young, M., K. McLaughlin, C. Kendall, W. Stringfellow, M. Rollog, K. Elsbury, E. Donald, A. Paytan. 2009. Characterizing the oxygen isotopic composition of phosphate sources to aquatic ecosystems. *Environ. Sci. Technol.* 43 (14): 5190-5196.
25. Engelage, S. K., W. T. Stringfellow, T. Letain. 2009. Disinfection byproduct formation potentials of wetlands, agricultural drains, and rivers and the effect of biodegradation on trihalomethane precursors. *J. Environ. Quality*. 38 (5): 1901-1908.
26. Rogers, M. R., W. T. Stringfellow. 2009. Partitioning of chlorpyrifos to soil and plants in vegetated agricultural drainage ditches. *Chemosphere*. 75 (1): 109-114
27. Stringfellow, W., Herr, J., Litton, G., Brunell, M., Borglin, S., Hanlon, J., Chen, C., Graham, J., Burks, R., Dahlgren, R., Kendall, C., Brown, R., Quinn, N. 2009. Investigation of river eutrophication as part of a low dissolved oxygen total maximum daily load implementation. *Water Sci. Technol.* 59 (1): 9-14.
28. Stringfellow, W. T. 2008. Ranking methods to set restoration and remediation priorities on a watershed scale. *Water Sci. Technol.* 58 (10): 2025 – 2030.
29. Stringfellow, W. T. 2008. Ranking tributaries for remediation priorities in a TMDL context. *Chemosphere* 71 (10): 1895 – 1908.
30. Stringfellow, W. T., J. S. Hanlon, S. E. Borglin, N. W. T. Quinn. 2008. Comparison of wetland and agriculture drainage as sources of biochemical oxygen demand in the San Joaquin River, California. *Agricultural Water Management* 95 (5): 527 – 538.

31. Stringfellow, W., S. Borglin, J. Hanlon, J. Graham, R. Burks. 2008. Scientific studies supporting development of a dissolved oxygen TMDL. *Water Practice* 2 (1): 1 – 10.
32. Campbell, C. G., M. M. Mascetti, W. Hoppes, W. T. Stringfellow. 2007. Measurement reproducibility of the Bioscan™ flow-through respirometer applied as a toxicity-based early warning system for water contamination. *Environmental Practice* 9: 42 – 53.
33. Campbell, C. G., S. E. Borglin, B. Green, A. Grayson, E. Wozi, W. T. Stringfellow. 2006. Biologically directed environmental monitoring, fate, and transport of estrogenic endocrine disrupting compounds in water: A review. *Chemosphere* 65: 1265 – 1280.
34. Stringfellow, W. T., T. Komada, L.-Y. Chang. 2006. Drip-feed bioreactor for the treatment of concentrated wastes with minimal dilution. *Chemosphere* 65: 141 – 147.
35. Quinn, N. W. T., K. Jacobs, C. W. Chen, W. T. Stringfellow. 2005. Elements of a decision support system for real-time management of dissolved oxygen in the San Joaquin River Deep Water Ship Channel. *Environ. Model. Soft.* 20 (12):1495 – 1504.
36. Stringfellow, W. T., K.-C. Oh. 2005. Comparison of SPME Head Space Analysis to USEPA Method 5030/8260B for MTBE Monitoring. *Groundwater Monit. Remed.* 25 (2):52 – 58.
37. Stringfellow, W. T., K. -C. Oh. 2002. Influence of gasoline hydrocarbons on methyl tert-butyl ether biotreatment in fluidized bed bioreactors. *Water Sci. Technol. Water Suppl.* 2 (2): 223 – 228.
38. Stringfellow, W. T., K. -C. Oh. 2002. Initiation of methyl tert-butyl ether biotreatment in fluidized-bed bioreactors. *J. Environ. Eng.* 128 (9): 852 – 861.
39. Hu, Q., R. Salve, W. T. Stringfellow, J. S. Y. Wang. 2001. Field tracer transport tests in unsaturated fractured tuffs. *J. Contam. Hydrol.* 51: 1-12.
40. Stocking, A. J., R. A. Deeb, A. E. Flores, W. T. Stringfellow, J. Talley, R. Brownell, M. C. Kavanaugh. 2000. Bioremediation of MTBE: a practical perspective. *Biodegradation* 11: 187 –201.
41. Stringfellow, W. T., L. Alvarez-Cohen. 1999. Evaluation of the relationship between sorption of PAHs to bacterial biomass and biodegradation. *Water Res.* 33: 2535-2544.
42. Aitken, M. D., W. T. Stringfellow, R. D. Nagel, C. Kazunga, S. -H. Chen. 1998. Characteristics of phenanthrene-degrading bacteria isolated from soils contaminated with polycyclic aromatic hydrocarbons. *Can. J. Microbiol.* 44: 743-752.
43. Grimberg, S. J., W. T. Stringfellow, M. D. Aitken. 1996. Quantifying the biodegradation of phenanthrene by *Pseudomonas stutzeri* P16 in the presence of a nonionic surfactant. *Appl. Environ. Microbiol.* 62:2387-2392.
44. Stringfellow, W. T., M. D. Aitken. 1995. Competitive metabolism of naphthalene, methylnaphthalenes, and fluorene by phenanthrene degrading bacteria. *Appl. Environ. Microbiol.* 61:357-362.
45. Grimberg, S. J., M. D. Aitken, W. T. Stringfellow. 1994. The influence of a surfactant on the rate of phenanthrene mass transfer into water. *Water Sci. Technol.* 7:23-30.
46. Stringfellow, W. T., M. D. Aitken. 1994. Comparative physiology of phenanthrene degradation by two dissimilar pseudomonads isolated from a creosote contaminated soil. *Can. J. Microbiol.* 40:432 - 438.
47. Aitken, M. D., P. H. Heck, L. Alvarez-Cohen, S. J. Grimberg, W. T. Stringfellow. 1993. Activated sludge. *Water Environ. Res.* 65(4): 324-336.
48. Stringfellow, W. T., K. Mallon, F. A. DiGiano. 1993. Enumeration and disinfection of bacteria associated with particles released from GAC filter adsorbers. *J. Am. Water Works Assoc.* 85(9): 70 - 80.

49. Stringfellow, W. T., B. Dassy, M. Lieb, J. M. Fournier. 1991. *Staphylococcus aureus* growth and type 5 capsular polysaccharide production in synthetic media. *Appl. Environ. Microbiol.* 57: 618 - 621.
50. Dassy, B., W. T. Stringfellow, M. Lieb, J. M. Fournier. 1991. Production of type 5 capsular polysaccharide by *Staphylococcus aureus* grown in a semi-synthetic medium. *J. Gen. Microbiol.* 137: 1155 - 1162.
51. Stringfellow, W. T., N. R. Connell, C. F. Felin, W. P. Coleman. 1988. Variables influencing sulfide concentration in a gravity flow collection system. *J. Water Pollution Control Fed.* 60: 2111 - 2114.

Peer-Reviewed Technical Reports & Proceedings

1. Stringfellow, W. T., H. Cooley, C. Varadharajan, M. Heberger, M. Reagan, J. K. Domen, W. Sandelin, M. K. Camarillo, P. Jordan, K. Donnelly, S. Nicklisch, A. Hamdoun, J. Houseworth. 2015. Chapter 2: Impacts of Well Stimulation on Water Resources. In: *An Independent Scientific Assessment of Well Stimulation in California, Volume II: Generic and Potential Environmental Impacts of Well Stimulation Treatments.* (July 1) The California Council on Science and Technology, Sacramento, CA.
2. Houseworth, J., W. Stringfellow. 2015. A Case Study of California Offshore Petroleum Production, Well Stimulation, and Associated Environmental Impacts. In: *An Independent Scientific Assessment of Well Stimulation in California, Volume III: Case Studies of Hydraulic Fracturing and Acid Stimulations in Select Regions: Offshore, Monterey Formation, Los Angeles Basin, and San Joaquin Basin.* (July 1) The California Council on Science and Technology, Sacramento, CA. ISBN Number: 978-1-930117-70-9.
3. Shonkoff, S. B. C., R. L. Maddalena, J. Hays, W. Stringfellow, Z. S. Wettstein, R. Harrison, W. Sandelin, T. E. McKone. 2015. Chapter 6: Potential Impacts of Well Stimulation on Human Health in California In: *An Independent Scientific Assessment of Well Stimulation in California, Volume II: Generic and Potential Environmental Impacts of Well Stimulation Treatments.* (July 1) The California Council on Science and Technology, Sacramento, CA.
4. Long, J. C. S., L. C. Feinstein, J. T. Birkholzer, W. Foxall, J. E. Houseworth, P. D. Jordan, N. J. Lindsey, R. L. Maddalena, T. E. McKone, W. T. Stringfellow, C. Ulrich, M. G. Heberger, S. B.C. Shonkoff, A. Brandt, K. Ferrar, D. L. Gautier, S. E. Phillips, B. K. Greenfield, M. L. B. Jerrett. 2015. *An Independent Scientific Assessment of Well Stimulation in California, Volume III: Case Studies of Hydraulic Fracturing and Acid Stimulations in Select Regions: Offshore, Monterey Formation, Los Angeles Basin, and San Joaquin Basin.* (July 1) The California Council on Science and Technology, Sacramento, CA. ISBN Number: 978-1-930117-70-9.
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Presentations and Abstracts

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11. Stringfellow, W., M. K. Camarillo, J. Domen, W. Sandelin, C. Varadharajan, H. Cooley, P. Jordan, M. Heberger, M. Reagan, J. Houseworth, J. Birkholzer. 2015. Treatment Process Requirements for Waters Containing Hydraulic Fracturing Chemicals. American Geophysical Union Fall Meeting, San Francisco, CA, December 14-18.
12. Stringfellow, W. T. 2015. (Invited Presentation). Understanding the Hazards & Risks Associated with Chemical Use for Unconventional Oil & Gas Development. National Academy of Sciences Chemical Sciences Roundtable Workshop on Chemistry and Engineering of Shale Gas and Tight Oil Resource Development, Washington, DC, May 18-19.
13. Stringfellow, W. T. 2015. (Invited Presentation). The Environmental Impacts of Shale Gas & Oil Extraction in the United States & Applications to Mexico, Topic: Environmental & Public Health. Conference on the Environmental Impacts of Shale Gas and Oil Extraction in the United States Applications to Mexico, hosted by University of California, Berkeley, Berkeley, CA, April 27 - 29.
14. Stringfellow, W., T. McKone, W. Sandelin, K. Kloc, J. Domen, M. Heberger, R. Maddalena, C. Varadharajan, P. Jordan, H. Cooley, M. Reagan, R. Tinnacher, M. Kay Camarillo, J. Houseworth, J. Birkholzer. 2015. Composition and Associated Hazards of Well Stimulation Fluids Used in California (USA). Oil & Gas - Water Nexus: Hydraulic Fracturing Impacts on Water and Soil Quality, 249th ACS National Meeting, Denver, CO, March 22 – 26.
15. Stringfellow, W. T. 2014. (Invited Presentation). Water Quality and Cyanobacteria in the San Joaquin River and South Delta. Invited Special Seminar. U. S. Environmental Protection Agency Region 9, San Francisco, CA, September 22.
16. Stringfellow, W., P. Jordan, M. Reagan, R. Tinnacher, C. Varadharajan, H. Cooley, K. Donnelly, M. Heberger, L. Feinstein. 2014. (Invited Presentation). Potential Direct Environmental Effects of Well Stimulation on Water Resources in California. Webinar for the U.S. Environmental Protection Agency Office of Research and Development, hosted by the California Council on Science and Technology, Sacramento, CA, October 9.
17. Camarillo, M.K., W.T. Stringfellow, J. Herr, S. Sheeder, S. Gulati, G. Weissmann. 2014. Computer modeling to promote stakeholder involvement and informed decision-making in a TMDL program. 13th International Water Association (IWA) Specialized Conference on Watershed and River Basin Management, San Francisco, CA, September 9-12.
18. Gulati, S., A. Stubblefield, J. Hanlon, C. Spier, M.K. Camarillo, W. Stringfellow. 2014. Mass balance analysis for salts, nutrients, and oxygen-demanding substances in the San Joaquin River. 13th International Water Association (IWA) Specialized Conference on Watershed and River Basin Management, San Francisco, CA, September 9-12.
19. Stringfellow, W. T., J. K. Domen, M. K. Camarillo, W. L. Sandelin, R. Tinnacher, P. Jordan, J. Houseworth, J. Birkholzer. 2014. Characterizing Compounds Used in Hydraulic Fracturing: a Necessary Step for Understanding Environmental Impacts. Hydraulic Fracturing Symposium – American Chemical Society National Meeting in San Francisco, CA, August 10-14.

20. Camarillo, M.K., W.T. Stringfellow, J. Herr, S. Sheeder, S. Gulati, G. Weissmann, A. Stubblefield. 2014. Use of a one-dimensional link-node model to develop total maximum daily load strategies for the San Joaquin River Estuary. International Congress on Environmental Modeling and Software (iEMSs), San Diego, CA, June 15-19.
21. Camarillo, M.K., W.T. Stringfellow, J. Herr, S. Sheeder, S. Gulati, G. Weissmann, M. Jue. 2014. Use of the WARMF model to identify sources of oxygen impairment and potential management strategies for the San Joaquin River Watershed. International Congress on Environmental Modeling and Software (iEMSs), San Diego, CA, June 15-19.
22. Jung, J. Y., Camarillo, M. K., Avdan, Z. Y., Hanlon, J., Stringfellow, W., 2014. Effects of wetland management on carbon storage in soil. National Conference on Undergraduate Research, Lexington, KY, April 3-5.
23. Yigit-Avdan, Z., W. T. Stringfellow, J. Hanlon. 2013. Carbon storage in seasonal wetlands receiving agricultural runoff. VII International Symposium on Ecology and Environmental Problems, Antalya, Turkey, December 18-21.
24. Conrad, M. E., M. Bill, G. Andersen, B. Fouke, W. Stringfellow, S. Hubbard. 2013. Isotopic insights into microbial activity in Milne Point oil reservoirs on the North Slope of Alaska. 18th Reservoir Microbiology Forum, London, England, Nov. 27-28.
25. Moon, C.R., G. M. Litton, M. S. Brunell, M. Estiandan, W. T. Stringfellow. 2013. Zooplankton-phytoplankton interactions in the San Joaquin River, CA. Coastal and Estuarine Research Federation (CERF) 22nd Biennial Conference, November 3-7, San Diego, California.
26. Camarillo, M. K., W. T. Stringfellow, J. S. Hanlon. 2013. Use of flow regulation in manhole odor control devices to reduce maintenance and frequency of media replacement. Water Environment Federation 86th Annual Technical Exhibition and Conference (WEFTEC), Chicago, IL, October 5-9.
27. Spier, C. L., Stringfellow, W. T., Hanlon, J., Brunell, M., Estiandan, M., Koski, T., Kääriä, J., 2013. Microcystin in the Southern Bay-Delta Estuary and the Upstream San Joaquin River and Possible Negative Impact on the Food Web. Ecological Society of America, 98th Annual Meeting, Minneapolis, MN, August 4-9.
28. Camarillo, M. K., W. T. Stringfellow, C. L. Spier, J. S. Hanlon. 2013. Selection of co-digestate feedstocks based on evaluation of a full-scale biomass energy mass balance. American Society of Agricultural and Biological Engineers (ASABE) Annual International Meeting, July 21 – 24, Kansas City, Missouri.
29. Domen, J. K., Ebia, M. I., Camarillo, M. K., Stringfellow, W. T., 2013. Egg waste and grape pomace as co-digestates for Biogas Production in Anaerobic Digestion. American Society of Agricultural and Biological Engineers (ASABE) Annual International Meeting, July 21 – 24, Kansas City, Missouri.
30. Stringfellow, W. T. 2013. (Invited Presentation). Impact of large-scale water projects and irrigated agriculture on water quality. 7th Workshop on Frontiers of Science Development, Chinese University of Mining & Technology-Beijing, Beijing, P. R. China, May 23.

31. Stringfellow, W. T. Spier, C. L. 2013. (Invited Presentation). Gulf of Mexico oil spill of 2010: remediation actions and hydrocarbon distributions. Chinese University of Mining & Technology, Xuzhou, Jiangsu, P. R. China, May 21.
32. Stringfellow, W. T. 2013. (Invited Presentation). Ecological engineering for mitigating watershed-scale environmental impacts. Chinese University of Mining & Technology, Xuzhou, Jiangsu, P. R. China, May 20.
33. Spier, C. L., Stringfellow, W. T., Hanlon, J., Brunell, M., Estiandan, M., Koski, T., Kääriä, J., 2013. Unprecedented Bloom of Toxin-Producing Cyanobacteria in the Southern Bay-Delta Estuary has Negative Impact on the Aquatic Food-Web. Interagency Ecological Program, Folsom, CA, April 24-26.
34. Jung, J. Y., Stringfellow, W., Camarillo, M. K., Spier, C., 2013. Toxic Microcystis Blooms in the Sacramento-San Joaquin Delta Watershed. Pacific Undergraduate Research and Creativity Conference, Stockton, CA, April 20.
35. Domen, J. K., Ebia, M. I., Stringfellow, W. T., Camarillo, M. K., 2013. Evaluation of Egg Waste and Grape Pomace as Co-digestates in Anaerobic Digestion. California Water Environment Association (CWEA) 85th Annual Conference, Palm Springs, CA, April 16-19.
36. Stubblefield, A. A., Gulati, S., Hanlon, J. S., Spier, C. L., Stringfellow, W. T., 2013. Comparison of Load Estimation Methods for Calculating Total Maximum Daily Load (TMDL) in Agricultural Watersheds. Pacific Research Day, Stockton, CA, March 18.
37. Spier, C. L., Stringfellow, W. T., Hanlon, J., Brunell, M., Estiandan, M., Koski, T., Kääriä, J., 2013. Unprecedented Bloom of Toxin-Producing Cyanobacteria in the Southern Bay-Delta Estuary Has Negative Impact on the Aquatic Food-Web. Pacific Research Day, Stockton, CA, March 18.
38. Camarillo, M. K., W. T. Stringfellow, J. S. Hanlon, E. Basha. 2013. Performance of collection system odor control devices operating in diverse conditions. 5th International Water Association Odors and Air Emissions Conference, San Francisco, CA, March 4-7.
39. Yigit-Avdan Z., W. T. Stringfellow, J. S. Hanlon. 2013. Carbon storage in seasonal wetland receiving agricultural runoff. 6th International Perspective on Water Resources and the Environment, International Perspective on Water Resources and Environment (IPWE) 2, Izmir, Turkey, January 7-9.
40. Brunell, M. S., G. M. Litton W. T. Stringfellow. 2012. "Spatial, temporal, and tidal effects on the distribution of zooplankton in the Deep Water Ship Channel of the San Joaquin River, CA." 7th Biennial Bay-Delta Science Conference, Sacramento, CA, October 16-18.
41. Stringfellow, W. T., M. S. Brunell, T. Koski, J. Hanlon C. Spier. 2012. "Monitoring cyanobacteria, Microcystis, and microcystin in the San Joaquin River Estuary." 7th Biennial Bay-Delta Science Conference, Sacramento, CA, October 16-18.
42. Camarillo, M. K., W. T. Stringfellow, J. S. Hanlon, M. B. Jue. 2012. Operating an anaerobic digestion and co-generation system with stringent air quality regulations to limit nitrogen oxides (NOx) and sulfur oxides (SOx) in stack gas emissions. Water Environment

Federation 85th Annual Technical Exhibition and Conference (WEFTEC), New Orleans LA, September 29-October 3.

43. Karpuzcu, E., D. L. Sedlak, W. T. Stringfellow. 2012. Transformation of organophosphate pesticides in riparian wetlands in agricultural watersheds: implications for wetland management. IWA World Water Congress 2012, Busan, Korea, September 16-21.
44. Camarillo, M. K., W. T. Stringfellow, M. B. Jue, J. S. Hanlon. 2012. Impact of co-digestion on salinity at a biomass energy project. IWA World Water Congress 2012, Busan, Korea, September 16-21.
45. Brunell, M. S., T. Koski, J. Graham, J. Hanlon, C. Spier, S. Borglin, W. T. Stringfellow. 2012. Distribution of *Microcystis* and microcystin in the southern Sacramento-San Joaquin Delta, California, USA. IWA World Water Congress 2012, Busan, Korea, September 16-21.
46. Gulati, S., J. S. Hanlon, C. L. Spier, W. T. Stringfellow. 2012. Total maximum daily load (TMDL) estimation using a joint real-time and periodic sampling approach. IWA World Water Congress 2012, Busan, Korea, September 16-21.
47. Piceno, Y, L. Tom, F. Reid, S. Borglin, J. Fortney, D. Joyner, A. Pettenato, T. Hazen, C. Spier, W. Stringfellow, J. Wong, G. Andersen. 2012. Microbial community structure differences associated with elevated hydrocarbon concentrations in sediment near and far from the Deepwater Horizon MC-252 wellhead. 14th International Symposium on Microbial Ecology, Copenhagen, Denmark, August 19-24.
48. Brunell, M. S., Litton, G. M., Quinn, N. W. T., Stringfellow, W. T. 2012. Variable flow effects on phyto- and zooplankton at the river-estuary transition in the San Joaquin River, CA. 97th Annual Ecological Society of America Meeting, Portland OR, August 5-10.
49. Stringfellow, W. T., Hanlon, J. S., Brunell, M. S., Spier, C., Kendall, C., Borglin, S., Litton, G. 2012. Direct measurement of phytoplankton growth rate in a eutrophic river reveals phytoplankton response to altered flow regimes. 97th Annual Ecological Society of America Meeting, Portland OR, August 5-10.
50. Yigit-Avdan Z., Stringfellow W. T., Hanlon J., Swarzenski P. 2012. Differences in carbon storage between seasonal and permanent wetland in agricultural ecosystems. Ecological Society America 97th Annual Meeting, 5-10 August 2012, Portland, Oregon, USA.
51. Camarillo, M. K., W. T. Stringfellow, J. S. Hanlon, M. B. Jue. 2012. Enhanced sustainability of dairy operations through implementation of a biomass energy project. American Society Agricultural and Biological Engineers (ASABE) Annual International Meeting, Dallas TX, July 29-August 1.
52. Karpuzcu, M. E., J. S. Hanlon, D. L. Sedlak, W. T. Stringfellow. 2012. Biodegradation of organophosphate pesticides in riparian wetlands receiving agricultural drainage. American Society of Agricultural and Biological Engineers (ASABE) Annual International Meeting, Dallas TX, July 29-August 1.
53. Spier, C., W. T. Stringfellow, T. Hazen, M. Conrad. 2012. An investigation of hydrocarbons sampling distribution in subsurface sediment and water samples after the 2010 deepwater horizon oil spill and the relationship between contamination in sediments and the water

- column. National Water Quality Monitoring Council 8th National Monitoring Conference, Portland OR, April 30-May 4.
54. Gulati, S., J. S. Hanlon, C. L. Spier, W. T. Stringfellow. 2012. Estimation of total maximum daily load (TMDL) in agricultural watersheds using a combined real-time and periodic sampling approach. National Water Quality Monitoring Council 8th National Monitoring Conference, Portland OR, April 30-May 4.
 55. Stringfellow, W. T., S. Gulati, J. Hanlon, C. Spier. 2012. Ranking Matrix to Prioritize Watersheds in a TMDL Context. National Water Quality Monitoring Council 8th National Monitoring Conference, Portland OR, April 30-May 4.
 56. Hanlon, J. S., M. K. Camarillo, A. Stubblefield, W. T. Stringfellow. 2012. Integration of routinely collected municipal monitoring data sets to supplement a regional dissolved oxygen total maximum daily load (TMDL) model. National Water Quality Monitoring Council 8th National Monitoring Conference, Portland OR, April 30-May 4.
 57. Hanlon, J. S., M. K. Camarillo, C. L. Spier, W. T. Stringfellow. 2012. Developing a monitoring strategy for tracking environmental impacts of co-digested feedstocks in an anaerobic biomass energy project. National Water Quality Monitoring Council 8th National Monitoring Conference, Portland OR, April 30-May 4.
 58. Juhrend B., Jain, R., Camarillo, M. K., Stringfellow, W., 2012. Drinking Water Security and Sustainability. Pacific Undergraduate Research and Creativity Conference, Stockton, CA. April 21.
 59. Ebia, M., Spier, C., Stringfellow, W. T., Camarillo, M. K., 2012. Development of the Total Phosphorous Mass Balance Using a Modified Persulfate Digestion Method Pacific Undergraduate Research and Creativity Conference, Stockton, CA. April 21.
 60. Jung, J., W.T. Stringfellow, M.K. Camarillo. 2012. Toxic Microcystis Blooms in the Sacramento- San Joaquin Delta Watershed. Pacific Undergraduate Research and Creativity Conference, Stockton, California, April 21.
 61. Garcia, E. A., Stringfellow, W., Spier, C., 2012. Solving the Low Dissolved Oxygen Problem by Understanding the Sources & Fate of Different Nitrogen Species Entering in the San Joaquin River Estuary Pacific Undergraduate Research and Creativity Conference, Stockton, CA. April 21.
 62. Young, M., T. Harter, C. Kendall, W. Stringfellow. (2012) Using nitrate stable isotopes to identify dominant nitrate sources and processes impacting groundwater and surface water in the Central Valley, California. California Water and Environmental Modeling Forum, 2012 Annual Meeting, Folsom, CA. Apr 16-18, 2012.
 63. Camarillo, M.K., W.T. Stringfellow, J. Domen, M. Ebia. 2012. Encouraging sustainable agriculture through biomass energy. 2013 Pacific Research Day, Stockton, California, March 25.
 64. Camarillo, M. K., W. T. Stringfellow, J. S. Hanlon, M. B. Jue. 2012. Economic sustainability of a dairy-based biomass energy project in California. The 27th International Conference on Solid Waste Technology and Management, Philadelphia PA, March 11-14.

65. Spier, C., W. T. Stringfellow, T. Hazen, M. Conrad. 2012. An investigation into the distribution of hydrocarbons in sediments and the subsurface water column after the 2010 explosion of the Macondo 252 Deepwater Oil Rig. 2012 Ocean Sciences Meeting, Salt Lake City, UT, February 20-24.
66. Spier, C., W. T. Stringfellow, E. Sonnenthal, M. Conrad, T. Hazen. 2011. The distribution of hydrocarbons in surface and deepwater plumes during the MC252 oil spill in the Gulf of Mexico. American Geophysical Union Fall Meeting, San Francisco, CA, December 5-9.
67. Stringfellow, W., M. K. Camarillo, R. Jain. 2011. Identification of chemical threats to water systems. Integrated Water Security Summit Dedicated to Defense-in-Depth: Innovation and Technology Implementation. US Army, Engineering Research and Development Center-Construction Engineering Research Laboratory, San Francisco, California, November 2 – 4.
68. Camarillo, M. K., W. Stringfellow, R. Jain. A review of major issues concerning drinking water security. 2011. Integrated Water Security Summit Dedicated to Defense-in-Depth: Innovation and Technology Implementation. US Army, Engineering Research and Development Center-Construction Engineering Research Laboratory, San Francisco, California, November 2 – 4.
69. Stringfellow, W., E. Karpuzcu, C. Spier, J. Hanlon, J. Graham. 2011. Determination of Land Area Requirements for Mitigation Wetlands in Agricultural Watersheds. The 12th International Specialized Conference on Watershed & River Basin Management. Recife, Brazil, September 14 – 16.
70. Stringfellow, W. T., R. Jain, M. E. Karpuzcu. 2011. Incorporation of engineered ecosystem services into regions with highly modified hydrologic cycles. Ecological Society of America Annual Meeting, Austin, TX, August 7 – 12.
71. Stringfellow, W. T. 2011 Water Quality Criteria As Drivers for Delta Management Panel presentation and roundtable for “The Water War: Challenges and Litigation Surrounding San Joaquin County Water” moderated by Bill Jefferies and organized by the Pacific Legal Scholars Program, Stockton, CA, March 1. 2011.
72. Conrad, M., M. Bill, W. Stringfellow, S. Borglin, O. Mason, E. Dubinsky, Y. Piceno, J. Fortney, L. Tom, K. Chavarria, R. Lamendella, D. Joyner, K. Wetmore, J. Kuehl, R. Mackelprang, C. Wu, H. Lim, F. Reid, T. Hazen. 2011. Isotopic Evidence for Microbial Oxidation of Dissolved Methane in the Gulf of Mexico Oil Spill Deep Plume. Goldschmidt 2011, Prague, Czech Republic, August 14-19.
73. Christensen, J. N., M. E. Conrad; M. Bill; M. Denham; J. Wan; S. Rakshit; W. T. Stringfellow; N. Spycher. 2010. Isotopic systematics (U, nitrate Sr) of the F-Area acidic contamination plume at the Savannah River Site: Clues to contaminant history and mobility. American Geophysical Union Fall Meeting, San Francisco, CA, December 13 – 16.
74. Young, M., C. Kendall, W. Stringfellow, S. Silva, R. Dahlgren. 2010. Using a stable isotope mass balance approach to identify nitrate sources and sinks in the San Joaquin River. 6th Biennial Bay-Delta Science Conference 2010: Ecosystem Sustainability: Focusing Science on Managing California’s Water Future, Sacramento, CA, September 27 – 29.

75. Karpuzcu, M. E., J. Hanlon, D. Sedlak, W. Stringfellow. 2010. Spatial and Temporal Variation in the Biodegradation of Organophosphate Pesticides in Riparian Wetlands in Agricultural Watersheds. 6th Biennial Bay-Delta Science Conference 2010: Ecosystem Sustainability: Focusing Science on Managing California's Water Future, Sacramento, CA, September 27 – 29.
76. Stringfellow, W., J. Graham, S. Borglin, M. Brunell, J. Hanlon, C. Spier. 2010. Relationship between wetland functionality and water quality changes occurring in agricultural watersheds. International Water Association (IWA) World Water Congress and Exhibition, Montréal, Canada, September 19–24.
77. Stringfellow, W., J. Graham, S. Borglin, M. Brunell, J. Hanlon, C. Spier. 2010. Engineering Ecosystem services in agricultural watersheds. American Society of Agricultural and Biological Engineers (ASABE) Annual International Meeting, Pittsburgh, PA, June 20 – 23.
78. Stringfellow, W., E. Karpuzcu, J. Hanlon, D. Sedlak 2010. Biodegradation of Chlorpyrifos in Riparian Wetlands and Agricultural Drains. American Society of Agricultural and Biological Engineers (ASABE) Annual International Meeting, Pittsburgh, PA, June 20 – 23.
79. Karpuzcu, E. M., J. Hanlon, D. Sedlak, W. Stringfellow. 2010. Spatial and Temporal Variation in the Biodegradation of Chlorpyrifos in Riparian Wetlands in Agricultural Watersheds. American Ecological Engineering Society Annual Meeting The International Commission of Agricultural and Biosystems Engineering (CIGR) 17th World Congress, Québec City, Canada, June 13 to 17.
80. Stringfellow, W., S. Borglin, J. Hanlon, C. Spier, J. Graham, M. K. Camarillo, C. Kendall, S. Engelage. 2010. Design challenges to the integration of ecosystem services into agricultural landscapes in arid ecosystems. American Ecological Engineering Society Annual Meeting The International Commission of Agricultural and Biosystems Engineering (CIGR) 17th World Congress, Québec City, Canada, June 13 to 17.
81. Brunell, M., C. Spier, J. Hanlon, J. Graham, T. Koski, S. Borglin, W. Stringfellow. 2010. Low turbidity and high water quality correlated with *Microcystis* in the South Delta. 2010 Interagency Ecological Program (IEP) Workshop, Sacramento, CA, May 25 – 26.
82. Borglin, S., C. Spier, R. Dahlgren, T. Lundquist, W. Stringfellow. 2009. Improved detection of ammonia, nitrate, and total N in surface water samples. 9th Biennial State of the San Francisco Estuary Conference, Oakland, CA, September 29- October 1.
83. Graham, J., C. Spier, K. Nguyen, M. Brunell, W. Stringfellow. 2009. Assessment of the California Rapid Assessment Method for Wetlands on agricultural riparian buffer zones along the San Joaquin River. American Ecological Engineering Society 9th Annual Meeting, Oregon State University, Corvallis, OR, June 24-26.
84. Hanlon, J. S., T. Letain, W. T. Stringfellow. 2009. Changes in crop type influence water use efficiency in California's San Joaquin Valley. American Ecological Engineering Society Annual Meeting, Oregon State University, Corvallis, OR, June 24-26.
85. Spier, C., J. Hanlon, J. Graham, K. Nguyen, S. Borglin, W. Stringfellow. 2009. The potential for a riparian corridor in California's San Joaquin Valley. American Ecological Engineering Society Annual Meeting, Oregon State University, Corvallis, OR, June 24-26.

86. Hanlon, J. S., J. Graham, C. Spier, W. T. Stringfellow. 2009. Rapid assessment of water quality changes in wetlands receiving agricultural drainage. American Ecological Engineering Society Annual Meeting, Oregon State University, Corvallis, OR, June 24-26.
87. Stringfellow, W., J. Graham, M. Rogers, S. Borglin, M. Brunell, J. Hanlon, C. Spier, K. Nguyen. 2009. Water quality changes occurring in agricultural drains of varying riparian function. American Ecological Engineering Society Annual Meeting, Oregon State University, Corvallis, OR, June 24-26.
88. Stringfellow, W., J. Hanlon, S. Borglin, M. Rogers, J. Markel, C. Linneman, P. Klassen. 2009. Evaluation of riparian areas, ponds, and wetlands as BMPs for mitigating the water quality and impacts of irrigated agriculture in the San Joaquin Valley. American Society of Agricultural and Biological Engineers Annual Meeting, Reno, NV, June 22-24.
89. Borglin, S., W. Stringfellow, J. Hanlon, J. Graham, C. Spier. 2009. Manipulation of riparian zones for mitigation of agricultural water quality impacts in the Central Valley of California. American Society of Agricultural Biological Engineers Annual Meeting, Reno, NV, June 22-24.
90. Stringfellow, W. T. 2009. (Invited Plenary Presentation). Use of normalized rank mean (NRM) analysis to set remediation priorities. Sixth Symposium on Environmental Pollution and Environmental Priorities, Gebze Institute of Technology , Gebze, Kocaeli, Turkey, May 28.
91. Stringfellow, W. T. 2009. (Invited Presentation). Integration of engineered wetlands into the agricultural landscape to mitigate water quality impacts. Council of Civil and Environmental Engineering Department Heads for Turkish Universities (Annual Meeting), Istanbul Technical University, Istanbul, Turkey, May 27.
92. Stringfellow, W. T. 2009. (Invited Presentation). The San Joaquin River: breadbasket and basket case. California Water Institute, Fresno State University, Fresno, CA, March 18.
93. Borglin, S, W. Stringfellow, J. Hanlon. 2008. Use of PLFA to provide source tracking of algae seed on the San Joaquin River, California. American Geophysical Union Fall Meeting, San Francisco, CA. December 15-19.
94. Kendall, C., S. R. Silva, M. B. Young, E. C. Volkmar, R. A. Dahlgren, S. E. Borglin, W. T. Stringfellow. 2008. (Invited Presentation). Potential effect of algal productivity in the San Joaquin River on nitrate concentrations and isotope ratios. American Geophysical Union Fall Meeting, San Francisco, CA. December 15-19.
95. Kendall, C, M. B. Young, S. R. Silva, R. A. Dahlgren, W. T. Stringfellow. 2008. A multi-isotope investigation of sources and cycling of nitrate and organic matter in the San Joaquin River, Delta, and northern San Francisco Bay. American Geophysical Union Fall Meeting, San Francisco, CA. December 15-19.
96. Young, M. B., C. Kendall, S. R. Silva, R. A. Dahlgren, W. T. Stringfellow. 2008. A Multi-isotope tracer approach linking land use with carbon and nitrogen cycling in the San Joaquin River System. American Geophysical Union Fall Meeting, San Francisco, CA. December 15-19.

97. Silva, S. R., M. B. Young, C. Kendall, R.A. Dahlgren, W. T. Stringfellow. 2008. Isotopic responses to processes related to oxygen cycling during diel studies in the San Joaquin River, California. American Geophysical Union Fall Meeting, San Francisco, CA. December 15-19.
98. Stringfellow, W., J. Herr, G. Litton, M. Brunell, S. Borglin, J. Hanlon, C. Chen, J. Graham, R. Burks, R. Dahlgren, C. Kendall, R. Brown, N. Quinn. 2008. Investigation of river eutrophication as part of a low dissolved oxygen TMDL implementation. International Water Association World Water Congress, Vienna, September 7-12.
99. Stringfellow, W. T. 2008. Ranking methods to set restoration and remediation priorities on a watershed scale. Eleventh International Specialized Conference on Watershed & River Basin Management, International Water Association, Budapest, Hungary, September 4-6.
100. Stringfellow, W., J. Herr, G. Litton, M. Brunell, S. Borglin, J. Hanlon, C. Chen, J. Graham, R. Burks, R. Dahlgren, C. Kendall, R. Brown, N. Quinn. 2008. Investigation of river eutrophication as part of a low dissolved oxygen TMDL implementation: Three years of science in fifteen minutes. CALFED Science Conference, Sacramento, CA, October 22-24.
101. Silva, S.R., Kendall, C., Young, M. B., Stringfellow, W. T., 2008. A refined assessment of spatial and temporal dynamics of algal occurrence in the San Joaquin River, California, from data collected 2005 to 2007. CALFED Science Conference, Sacramento, CA, October 22-24.
102. Young, M. B., Kendall, C., Stringfellow, W. T., Hanlon, J., Silva, S.R., 2008. Linking land use with stable isotope source signatures of nutrients and particulate organic matter in San Joaquin River tributaries. CALFED Science Conference, Sacramento, CA, October 22-24.
103. Kendall, C., Borglin, S.E., Silva, S.R., Young, M. B., Stringfellow, W. T., 2008. A POM-classification scheme developed using stable isotope, algal pigment, BOD measurements. CALFED Science Conference, Sacramento, CA, October 22-24.
104. Kendall, C., Young, M. B., Silva, S. R., Kratzer, C. R., Dahlgren, R. A., Stringfellow, W. T., 2008. Synthesis of stable isotope data for tracing sources of nitrate and organic matter to the San Joaquin River. CALFED Science Conference, Sacramento, CA, October 22-24.
105. Kendall, C., Young, M. B., Silva, S. R., Kratzer, C. R., Pellerin, B. A., Bergamaschi, B. A., Stringfellow, W. T., 2008. Evaluating temporal and spatial changes in DOC sources using stable isotope techniques. CALFED Science Conference, Sacramento, CA, October 22-24.
106. Hanlon, J. S. W. T. Stringfellow. 2008. A method of determining wetland pond flow paths using water quality measurements and GIS. Sixth National Monitoring Conference, Atlantic City, NJ, May 18-22.
107. Stringfellow, W. T. T. Komada. 2008. Drip-Feed Bioreactor for the Treatment of Concentrated Wastes. Fourth Sequencing Batch Reactor Conference, International Water Association, Rome, Italy, April 7-10.
108. Stringfellow, W. T., J. Hanlon, J. Herr S. Borglin. 2008. Using continuous monitoring in coordination with grab sampling to study river eutrophication as part of a dissolved oxygen TMDL. North American Environmental Field Conference and Exposition, Tampa, FL, January 14 – 16.

109. Stringfellow, W., J. Hanlon, S. Borglin, M. Rogers, J. Markle, C. Linneman, P. Klassen. 2007. Evaluation of vegetated ditches, ponds, and wetlands as BMPs for mitigating the water quality impact of irrigated agriculture in the San Joaquin Valley. National Conference on Agriculture and the Environment, Monterrey, CA, November 7-9.
110. Stringfellow, W. T. 2007. Using TMDL monitoring data to set restoration and remediation priorities on a watershed scale. National Conference on Agriculture and the Environment, Monterrey, CA, November 7-9.
111. Young, M. B, Kendall, C., Silva, S. R., Stringfellow, W. T., Dahlgren, R. A., 2007. Tracing seasonal nitrate sources and loads in the San Joaquin River using nitrogen and oxygen stable isotopes. American Geophysical Union Fall Meeting, San Francisco, CA. December 14-18.
112. Silva, S R, Kendall, C., Young, M. B., Stringfellow, W. T., Borglin, SE, Kratzer, CR, Dahlgren, R. A, Schimdt, C, Rollog, ME, 2007. Isotopic evidence of nitrate sources and its relationship to algae in the San Joaquin River, California. American Geophysical Union Fall Meeting, San Francisco, CA. December 14-18.
113. Stringfellow, W. T. 2007. Scientific studies supporting dissolved oxygen TMDL development. Water Environment Federation TMDL 2007, Bellevue, WA, June 24 – 27.
114. Stringfellow, W. T. S. W. Siegel. 2007. Presentation of the Low Dissolved Oxygen Conceptual Model Delta Regional Ecosystem Restoration Implementation Plan (DRERIP). DRERIP Technical Review Panel, Sacramento, CA. June 13.
115. Young, M., K. McLaughlin, E. Donald, W. Stringfellow, A. Paytan, C. Kendall. 2007. The oxygen isotopic composition of phosphate: a tool for tracing nutrient sources in aquatic ecosystems. Groundwater Resources Association of California Applications of Isotope Tools to Groundwater Studies Symposium, Concord, CA, March 29.
116. Kendall, C., Silva, S.R., Young, M.B., Stringfellow, W.T., Borglin, S., Dahlgren, R.A., Volkmar, E., Kratzer, C.R., Bergamaschi, B.A., 2007. Progress with tracing organic matter and nutrient sources using isotopic techniques, DO TMDL PI meeting, Stockton, CA, November 11.
117. Young, M., K. McLaughlin, E. Donald, W. Stringfellow, C. Kendall, A. Paytan. 2006. Tracing the sources of phosphate into the San Joaquin River using oxygen isotope signatures. American Geophysical Union, San Francisco, CA, December 11 – 15.
118. Kendall, C., Silva, S.R., Doctor, D.H., Wankel, S.D., Chang, C.C.Y., Bergamaschi, B.A., Pellerin, B.A., Kratzer, C.R., Stringfellow, W.T., Fleenor, W., Dahlgren, R.A., Paytan, A., McLaughlin, K., 2006. Progress with tracing organic matter and nutrient sources using isotopic techniques. DO TMDL TWG meeting, Sacramento, CA, March 6.
119. Kendall, C., Silva, S.R., Young, M.B., Bergamaschi, B.A., Kratzer, C.R., Stringfellow, W.T., Fleenor, W., Dahlgren, R.A., Paytan, A., 2006. Progress with tracing organic matter and nutrient sources using isotopic techniques, DO TMDL PI meeting talk, 8/06.
120. Kendall, C., Silva, S.R., Young, M.B., Stringfellow, W.T., Kratzer, C.R., Bergamaschi, B.A., Pellerin, B.A., Dahlgren, R.A., Fleenor, W. 2006, Isotopic and chemical mass balance approaches to characterize and differentiate sources of organic matter and nutrients from

- different land uses in the SJR. CALFED Drinking Water Program meeting, Rancho Cordova, CA, October 10.
121. Silva, S.R., Kendall, C., Young, M.B., Rollog, M.E., Chang, C.C.Y., Bergamaschi, B.A., Kratzer, C.R., Stringfellow, W.T., Fleenor, W., Dahlgren, R.A., Paytan, A., 2006. Progress with tracing organic matter and nutrient sources using isotopic techniques, CWI talk, 10/06.
 122. Kendall, C., Silva, S.R., Young, M.B., Stringfellow, W.T., Kratzer, C.R., Bergamaschi, B.A., Dahlgren, R.A., Fleenor, W., 2006. Distinguishing between sources of nitrate, water, and organic matter to the San Joaquin River using new isotopic techniques, USGS Outreach meeting, Modesto, CA, October 2.
 123. Stringfellow, W. T., J. Hanlon, S. E. Borglin, R. A. Dahlgren. 2006. Large scale ecosystem study of algae biokinetics as a function of non-point source discharge. CALFED Science Conference, Sacramento, CA, October 23 – 25.
 124. S. E. Borglin, W. T. Stringfellow, J. Hanlon. 2006. Use of PLFA biomarkers to study algal dynamics in the upper San Joaquin River. CALFED Science Conference, Sacramento, CA, October 23 – 25.
 125. Young, M., Kendall, C., Paytan, A., K. McLaughlin, Stringfellow, W. 2006. Tracing Phosphate Sources in Aquatic Ecosystems Using the Oxygen Isotopic Composition of Phosphate, CALFED Science Conference, Sacramento, CA, October 23 – 25.
 126. Kendall, C, Silva, S.R., Doctor, D.H., Young, M.B., Rollog, M.E., Stringfellow, W.T., Borglin, S., 2006. Seasonal and Spatial Changes in Organic Matter and Nitrate Sources in the San Joaquin River, CALFED Science Conference, Sacramento, CA, October 23 – 25.
 127. Herr, J. W., W. T. Stringfellow, N. W. T. Quinn, J. McGahan, R. Brown, C. Chen. 2006. Modeling the sources of oxygen demand impairment in the San Joaquin River Deep Water Ship Channel. CALFED Science Conference, Sacramento, CA, October 23 – 25.
 128. Stringfellow, W. T., J. Hanlon, S. E. Borglin, G. M. Litton. 2006. Large scale ecosystem study of algae biokinetics as a function of non-point source discharge in California's Central Valley. International Conference on the Future of Agriculture, Sacramento, CA, August 6 – 9.
 129. Stringfellow, W. T., S. E. Borglin, G. M. Litton, J. Hanlon, M. S. Brunell. 2006. Combining dynamic assessments with traditional monitoring approaches to improve understanding of NPS pollution impacts. Fifth National Monitoring Conference, San Jose, CA, May 7 – 11.
 130. Stringfellow, W. T., J. Hanlon, S. E. Borglin, M. Rogers, N. W. T. Quinn. 2004. Rapid evaluation of algal blooms in agricultural drains for meeting dissolved oxygen requirements. California Bay Delta Authority Science Conference, Sacramento, CA, October 4 – 6.
 131. Stringfellow, W. T. 2004. (Invited Presentation). Agricultural non-point source discharge impacts in an highly engineered river. Fresno State University, Fresno, CA, November 30.
 132. Stringfellow, W. T. 2004. (Invited Presentation). Unfavorable MTBE biokinetics dominate environmental fate processes. Second European MTBE Conference, Barcelona, Spain, November 4 – 5.

133. Stringfellow, W. T. 2004. (Invited Presentation). Characterization of algae growth and biomass production as a function of non-point source discharge in an impacted river. University of California, Riverside, CA, October 15.
134. Stringfellow, W. T., T. Komada, L.-Y. Chang. 2003. Feasibility of using biological degradation for the on-site treatment of mixed wastes. In-Situ and On-Site Bioremediation, the Seventh International Symposium, Orlando, FL, June 2 – 5.
135. Stringfellow, W. T. K.-S. Ju. 2003. Importance of co-metabolic interactions to predicting the fate of MTBE in soil and groundwater. In-Situ and On-Site Bioremediation, the Seventh International Symposium, Orlando, FL, June 2 – 5.
136. K.-S. Ju W. T. Stringfellow. 2003. Physiological Characterization of MTBE Metabolism by a New Bacterial Isolate. Abstracts of the 103rd Annual Meeting of the American Society for Microbiology, Washington, DC, May 18-22.
137. Stringfellow, W. T. 2002. (Invited presentation). Cometabolic biodegradation of petroleum compounds. Ninth International Petroleum Environmental Conference, Albuquerque, NM, October 22 – 25.
138. Stringfellow, W. T. 2002. (Invited presentation). MTBE biodegradation by *iso*-pentane degrading bacteria. Groundwater Resources Association MTBE Symposium, San Jose, CA, October 17.
139. Stringfellow, W. T. 2002. (Invited presentation). Cometabolism: a sophisticated tool for enhancing bioremediation. Joint Department of Energy/ Petroleum Environmental Research Forum Workshop on Bioremediation, Houston, TX, May 30.
140. Oh, K.-C., K.-S. Ju, W. T. Stringfellow. 2002. Biodegradation of methyl *tert*-butyl ether by *iso*-pentane degrading mixed and pure cultures. Abstracts of the 102nd Annual Meeting of the American Society for Microbiology, Salt Lake City, UT, May 19-23.
141. Chang, L.-Y., A. Proctor, C. Than, P. Williams, W. T. Stringfellow. 2002. Biotreatment of Tritiated Mixed Wastes. Abstracts of the 102nd Annual Meeting of the American Society for Microbiology, Salt Lake City, UT, May 19 – 23.
142. Letain, T. E., R. J. Silva, R. Knopp, T. C. Hazen, W. T. Stringfellow, H. Nitsche. 2002. Defining the Interactions Between Microbial Cell Surfaces and Uranium(VI) in Aerobic Conditions. Abstracts of the 102nd Annual Meeting of the American Society for Microbiology, Salt Lake City, UT, May 19 – 23.
143. Stringfellow, W. T., L. -Y. Chang, A. Proctor. 2002. Biological treatment of concentrated solvents in a mixed waste to meet land disposal requirements. International Water Association Third World Water Congress, Melbourne, Australia, April 7 – 12.
144. Oh, K. -C. W. T. Stringfellow. 2002. Effective treatment strategy in biological removal of MTBE from contaminated groundwater using up-flow fluidized bed bioreactors. International Water Association Third World Water Congress, Melbourne, Australia, April 7 – 12.
145. Stringfellow, W. T., J. Rodriguez, G. M. Castro. 2001. Partial transformation products as indicators of microbial hydrocarbon degradation in soils. American Geophysical Union 2001 Fall Meeting, San Francisco, CA, December 10 – 14.

146. Stringfellow, W. T. 2001. (Invited presentation). Environmental applications for alkane oxidizing bacteria. Institut für Biotechnologie, Eidgenössische Technische Hochschule (ETH), Zurich, Switzerland, October 19.
147. Stringfellow, W. T. K. C. Oh. 2001. Improving the reliability of MTBE biological treatment by manipulation of co-metabolic processes. International Water Association Biennial World Water Congress, Berlin, Germany, October 15 – 19.
148. Stringfellow, W. T, K. -C. Oh, K. -S. Ju. 2001. (Invited presentation). Ex-situ biological treatment of MTBE contaminated groundwater. Fall 2001 Petroleum Environmental Research Forum Meeting, Brea, CA Oct 4 – 5.
149. Ju, K. -S. W. T. Stringfellow. 2001. Evaluating MTBE biodegradation by alkane-enriched bacterial cultures. Air and Waste Management Conference 94th Annual Conference, Orlando, FL, June 24 – 28.
150. Stringfellow, W. T. 2001. Resolving problems associated with the biological treatment of MTBE contaminated ground water. 2001 International Containment and Remediation Technology Conference and Exhibition, Orlando, FL, June 10 – 13.
151. Chang, L. Y., A. Proctor, W. T. Stringfellow, H. Morimoto, C. Than, P. Williams. 2001. Biological treatment of a tritiated HPLC waste to meet RCRA requirements. 2001 International Containment and Remediation Technology Conference and Exhibition, Orlando, FL, June 10 – 13.
152. Stringfellow, W. T., R. D. Hines, D. K. Cockrum, S. T. Kilkenny. 2001. Operational environmental factors controlling the biological treatment of MTBE contaminated ground water. The Sixth International Symposium on In-Situ and On-Site Bioremediation, San Diego, CA, June 4 – 7.
153. Oh, K. C. W. T. Stringfellow. 2001. Treatment of MTBE in a Fluidized bed bioreactor using *iso*-pentane as a co-substrate. The Sixth International Symposium on In-Situ On-Site Bioremediation, San Diego, CA, June 4 – 7.
154. Rychel, E. H., K. S. Ju, W. T. Stringfellow. 2001. Evaluating MTBE degradation by alkane-oxidizing cultures. 101st Annual Meeting of the American Society for Microbiology, Orlando, FL, May 20 - 24.
155. Stringfellow, W. T., S. Smriga, K. C. Oh, T. Letain. 2001. Evaluating novel alkane-oxidizing bacteria for the biological up-grading of crude oil. 101st Annual Meeting of the American Society for Microbiology, Orlando, FL, May 20 - 24.
156. Stringfellow, W. T., S. Smriga, K. C. Oh, T. Letain. 2001. Evaluation of metabolic diversity among potential bacterial catalysts. 23rd Symposium on Biotechnology for Fuels and Chemicals, Breckenridge, CO, May 6 – 9.
157. Stringfellow, W. T. 2001. Evaluation of bacterial biocatalysts for terminal alkane oxidation. 221st American Chemical Society National Meeting, San Diego, CA, April 1 – 5.
158. Oh, K. -C., C. Don, W. T. Stringfellow. 2001. Enhanced Treatment of MTBE using *iso*-pentane as a co-substrate in an up-flow fluidized bed bioreactor. Eleventh Annual West Coast Conference on Contaminated Soils and Water. Mission Valley, San Diego, CA. March 19 – 22.
159. Stringfellow, W. T., R. D. Hines, S. T. Kilkenny. 2000. Factors influencing biological treatment of MTBE in fixed film reactors. Second International Conference on Remediation of Chlorinated and Recalcitrant Compounds, Monterey, CA. May 22 – 25.

160. Stringfellow, W. T. E. H. Rychel. 2000. Assay of MTBE biodegradation potential in subsurface soils. 100th Annual Meeting of the American Society for Microbiology, Los Angeles, CA, May 21 - 25.
161. Stringfellow, W. T., R. D. Hines, S. T. Kilkenny. 2000. Applying co-metabolic biological reactions for the ex-situ treatment of MTBE contaminated ground water. American Chemical Society National Meeting, San Francisco, CA March 26 – 30.
162. Stringfellow, W. T. 2000. (Invited presentation). Using *iso*-pentane to stimulate MTBE biodegradation in ground water treatment systems. United States Environmental Protection Agency MTBE Biodegradation Workshop. Cincinnati, OH. February 1 – 3.
163. Stringfellow, W. T. G. M. Castro. 1999. Using bacterial metabolite production to monitor the natural attenuation of PAHs in contaminated soils. Fifteenth Annual Conference on Contaminated Soils & Water, Amherst, MA. Oct. 18-21.
164. Conrad, M. E., W. T. Stringfellow, G. M. Lamble, 1999, Uptake and precipitation of metals from basalt by the lichen *Stereocaulon volcanii*: Geol. Soc. Am., Abst. with Prog. 31, no. 7, A393.
165. Stringfellow, W. T. F. N. Syed. 1999. Measurement of MTBE and MTBE biodegradation products using automated solid phase microextraction. American Chemical Society Western Regional Meeting, Ontario, CA. Oct. 6 – 8.
166. Hakem, N. , I. AlMahamid, W. T. Stringfellow. 1999. Plutonium behavior in the environment. American Chemical Society National Meeting, Anaheim, CA, March.
167. Kerr, J. B., F. Rabbi, W. T. Stringfellow, R. Lagemann, R. Clarke. 1998. Electrokinetic acceleration of bioremediation of metal ion and organic pollutants in soil. American Chemical Society National Meeting, Boston, MA, August.
168. Stringfellow, W. T., I. AlMahamid, N. Hakem, J. Hunter-Ceverra. 1998. Biosorption of plutonium by bacteria growing on components of mixed wastes. 98th Annual Meeting of the American Society for Microbiology, Atlanta, GA, May 17 - 21.
169. Stringfellow, W. T. 1998. Biodegradation of methyl *tert*-butyl ether by microorganisms found in a groundwater treatment system. 98th Annual Meeting of the American Society for Microbiology, Atlanta, GA, May 17 - 21.
170. AlMahamid, I., N. Hakem, W. T. Stringfellow, J. Hunter-Ceverra. 1997. Effect of biosorption on actinide migration in the subsurface. Migration '97, Sendai, Japan, October 26 - 31.
171. Stringfellow, W. T. M. D. Aitken. 1994. Competition between polynuclear aromatic hydrocarbon substrates as evidence of co-metabolism in pseudomonads. 93rd Annual Meeting of the American Society for Microbiology, Las Vegas, NV, May 23 - 27.
172. Nagel, R. D., W. T. Stringfellow, M. D. Aitken. 1994. Characteristics of phenanthrene degrading bacteria isolated from various PAH contaminated soils. 93rd Annual Meeting of the American Society for Microbiology, Las Vegas, NV, May 23 - 27.
173. Stringfellow, W. T. M. D. Aitken. 1993. Comparative physiology of phenanthrene degrading pseudomonads isolated from a creosote contaminated soil. 92nd Annual Meeting of the American Society for Microbiology, Atlanta, GA, May 16 - 20.
174. Stringfellow, W. T., K. Mallon, F. A. DiGiano. 1991. Enumeration and disinfection of bacteria associated with particles released from GAC filter adsorbers. Annual Conference of the American Water Works Association, Philadelphia, PA, June 23 - 27, p. 757 - 777.

175. Aitken, M. D. W. T. Stringfellow. 1992. Mechanisms of pollutant transformation by microorganisms. Am. Institute of Chem. Engineers Summer National Meeting, Minneapolis, MN, August.
176. DiGiano, F. A., K. Mallon, W. T. Stringfellow, N. Cobb, J. Thompson. 1990. Potential for release of carbon fines and bacteria from filter adsorbers. Annual Conference of the American Water Works Association, Cincinnati, OH, June 17 - 21, Part 1, p. 129 - 152.
177. Stringfellow, W. T. J. R. Pratt. 1988. Inhibition of algal growth by pigmented *Pseudomonas*. 88th Annual Meeting of the American Society for Microbiology, Miami Beach, FL, May 8 - 13.
178. Stringfellow, W. T. 1987. Biodegradation of a phenoxyacetate wastewater in laboratory and full scale batch treatment. 87th Annual Meeting of the American Society for Microbiology, Atlanta, GA, March 2 - 6.
179. Stringfellow, W. T., A. L. Kopecky L. T. Davis. 1986. Treatment of a high strength cyanide/sulfide waste stream using commercially available bacterial cultures. 86th Annual Meeting of the American Society for Microbiology, Washington, D.C. 3 - 7 March.
180. Stringfellow, W. T. S. G. Hornor. 1984. The effect of phenol dosage on parameters of microbial activity in sediments. 84th Annual Meeting of the American Society for Microbiology, St. Louis, MO, March 4 - 9.
181. Stringfellow, W. T. S. G. Hornor. 1983. The impact on phenol on microbial decomposition of organic carbon and phosphatase enzyme activity in freshwater sediments. 4th Annual Meeting of the Society for Environmental Toxicology and Chemistry Arlington, VA, November 6 - 9.

Consulting Experience Summary

Company	Problem area
<i>Allied Chemicals, KY</i>	COD, oil & grease
<i>Applied Process Technology, CA</i>	Post-oxidation biotreatment
<i>Aquabella Organic Solutions, LLC, Santa Rosa, CA</i>	Fermentations & biochemical manufacturing
<i>Aquenymco, Cormano, Italy</i>	Nitrification
<i>Armco Steel Corp., KY</i>	Cyanides, sulfides, and ammonia
<i>Bethlehem Steel Corp., PA</i>	Sulfide, phenol, cyanide, ammonia
<i>Cambrai Municipal Plant, France</i>	Bulking, grease, food industry wastes
<i>Caudry Municipal Plant, France</i>	Slaughterhouse wastes, settling
<i>Chevron Corporation, CA</i>	MTBE contaminated ground water
<i>City of Charlotte Utilities Authority, NC</i>	Odor control in collection systems
<i>Como Municipal Treatment Works, Italy</i>	Textile wastes, nitrification
<i>Company General d'Eau, Bourdon, France</i>	Grease treatment
<i>Cytoculture, CA</i>	MTBE contaminated ground water
<i>Department of the Haught Sine, France</i>	BOD, grease in collection system
<i>Erving Paper Co., MA</i>	BOD and COD removal
<i>E & J Gallo Winery, Livingston, CA</i>	Biomass energy
<i>Gamlen Industries, S. A., France</i>	Technical sales staff training
<i>Goodyear Chemicals, Le Havre, France</i>	Phenols, nitrification, start-up
<i>Industria Acqua Siracusana, Sicily</i>	Mixed industrial, refinery, and municipal wastes
<i>Illinois Department of Central Management Services Fiber Optic Infrastructure Project</i>	Environmental assessment
<i>La Station de Villeneuve-Tolosane, France</i>	Bulking sludge
<i>La Station Muret, France</i>	Slaughterhouse waste, fecal coliforms
<i>Lyonnaise des Eaux, Le Pecq, France</i>	Sludge reduction, aerobic digestion
<i>Menominee Wastewater Plant, MI</i>	COD removal
<i>Niagara County Sanitation District, NY</i>	Pharmaceutical waste
<i>Salisbury County Sanitation District, MD</i>	BOD, odor control
<i>San Joaquin River Group Authority</i>	Temperature & dissolved oxygen
<i>San Joaquin Valley Drainage Authority</i>	Irrigation drainage

Company	Problem area
<i>Scientific Hatcheries, CA</i>	MTBE contaminated ground water
<i>Secor International, Inc., CA</i>	MTBE contaminated ground water
<i>SFDE Arnouville Les Gonesse, France</i>	Grease trap waste treatment
<i>Texaco Refining, MD</i>	Nitrification
<i>Worcester County Sanitation District, MD</i>	Odor control, aerobic sludge digestion

List of Graduate Students & Thesis Projects

Graduate Students	University	Dates	Thesis Project
Michael Sitzmann Masters Environmental Engineering	University of the Pacific, Stockton, CA	February 2016 – present	Biological treatment and beneficial reuse of produced waters
Ben Grafius Masters Environmental Engineering	University of the Pacific, Stockton, CA	August 2015 – present	Degradation of mixtures of chemicals used in hydraulic fracturing: Biodegradation of QACs
Dylan Dibble Masters Environmental Engineering	University of the Pacific, Stockton, CA	August 2015 – present	Spatial & statistical analysis of produced water chemistry for beneficial reuse
Ji yeon Lee Masters Environmental Engineering	University of the Pacific, Stockton, CA	August 2014 – present	Degradation of mixtures of chemicals used in hydraulic fracturing: Inhibition of guar degradation by QACs
Huan Feng Masters Environmental Engineering	University of the Pacific, Stockton, CA	May 2014 (Reader)	Preparation of Glass-Ceramics Largely Using Steelmaking Slags and Study on the Effect of Iron Content on Properties of Glass-Ceramics
Yuntao Zhang Masters Environmental Engineering	University of the Pacific, Stockton, CA	May 2014 (Reader)	Effect of Calcium-Silicon Ratio on Expansion of Mortar Bars Due to Alkali-Silica Reaction
Chao Feng Masters Environmental Engineering	University of the Pacific, Stockton, CA	August 2013 – May 2014	Treatment of oil-water emulsion from the machinery industry by Fenton's reagent

Graduate Students	University	Dates	Thesis Project
Whitney Sandelin Masters Environmental Engineering	University of the Pacific, Stockton, CA	September 2012 – May 2014	Characterization of chemical additives used in hydraulic fracturing for oil and gas development
Matthew Ebia Masters Environmental Engineering	University of the Pacific, Stockton, CA	January 2012 – May 2013	Microbial characterization of anaerobic digestion processes
Jeremy Domen Masters Environmental Engineering	University of the Pacific, Stockton, CA	April 2011 – May 2013	Kinetics of anaerobic digestion: Co-digestion of agricultural wastes in laboratory and full scale digesters
Ashish Sawhney Masters Science Chemistry	University of the Pacific, Stockton, CA	May 2010 – Dec. 2012	Synthesis and mass spectrometry studies of oligopeptides
Gregory Weissmann Masters Environmental Engineering	University of the Pacific, Stockton, CA	June 2012 – Dec. 2012	Modeling sub-basin processes using the SJR-WARMF model
Zehra Yigit Avdan Ph.D. Environmental Engineering	Anadolu University Eskisehir, Turkey	Oct. 2011 – Sept. 2012	Carbon storage and processing in managed wetlands
Ekrem Karpuzcu Ph.D. Environmental Engineering	University of California, Berkeley	June. 1, 2006 to Dec. 14, 2012	Kinetics of nitrate and chlorpyrifos removal in managed wetlands
Chelsea Spier Masters Civil Engineering	University of the Pacific, Stockton, CA	Sept. 15, 2010 to Present	Environmental fate of hydrocarbons released during the 2010 Gulf oil spill
Christopher Stanton Masters Civil Engineering	University of the Pacific, Stockton, CA	Sept. 15, 2010 to June 25, 2011	Co-digestion of biomass energy crops and dairy wastes
Andre Bayati Masters Civil Engineering	University of the Pacific, Stockton, CA	Sept. 15, 2010 to June 25, 2011	Environmental fate of hydrocarbons released during the 2010 Gulf oil spill

Graduate Students	University	Dates	Thesis Project
Ozge Turkay Masters Civil Engineering	Gebze Institute of Technology, Kocael, Turkey	Sept. 27, 2010 to Dec. 27, 2010	Co-digestion of biomass energy crops and dairy wastes
Cameron Ross Masters Civil Engineering	University of the Pacific, Stockton, CA	Jan. 15, 2010 to Dec. 20, 2010	Using calorimetric analysis as part of an energy balance on an anaerobic digester and associated power plant
Michael Jue Masters Civil Engineering	University of the Pacific, Stockton, CA	Oct. 15, 2009 to Dec. 20, 2010	Control of hydrogen sulfide production in anaerobic digesters
Mathew Rogers Masters Environmental Engineering	University of California, Berkeley	Aug. 14, 2003 to Sept. 30, 2005	Impact of agricultural BMPs on pesticide runoff control
Samantha Engelage Masters Environmental Engineering	University of California, Berkeley	June. 1, 2006 to Aug. 14, 2007	Factors limiting algal growth rates in agriculturally impacted rivers
Natasha Sokolovskaya Masters Environmental Engineering	University of California, Berkeley	Sept. 15, 2004 to June 23, 2006	Biokinetics of algal growth in rivers impacted by agricultural non-point source pollution
Antoine Richard Masters Mechanical Engineering	National Engineering School of St. Etienne, France	June, 2004 to August, 2004	Use of automated sensors to measure light penetration and toxicity in agricultural drainage
Tatsu Komada Masters Environmental Engineering	University of California, Berkeley	October, 2001 to June, 2003	Biological treatment of tritiated mixed wastes
Imran Hashmi Ph.D. Institute of Environmental Studies	University of Karachi, Pakistan	2001 (Reader)	Microbiological Transformation of Hazardous Waste During Biological Waste Treatment

Graduate Students	University	Dates	Thesis Project
Erin Rychel Masters Environmental Engineering	University of California, Berkeley	September, 1999 to February, 2001	Biodegradation and biotreatment of MTBE

List of Undergraduate Students and Projects

Undergraduate Students	University	Dates	Project
Ashlee Ingram Senior Civil Engineering	Jackson State University Jackson, MS	January, 2015 to May, 2015	Degradation of mixtures of chemicals used in hydraulic fracturing: Metabolic inhibition of activated sludge by DDAC.
Jason Jung Sophomore Civil Engineering	University of the Pacific Stockton, CA	June, 2012 to June, 2013	Evaluation of carbon and nitrogen storage in seasonally and permanently flooded wetlands
Jolene Mattson Sophomore Chemistry	Laney College Oakland, CA	June, 2007 to June, 2008	Phosphate desorption from wetland sediments
Richard Hunt Senior Environmental Sciences	University of California, Berkeley	November, 2005 to June, 2005	Effect of Triclocarban and Triclosan on the growth of <i>Scenedesmus obliquus</i> .
Ana Fernandez Senior Chemical Engineering	University of Florida, Gainesville, FL	June, 2004 to August, 2004	Characterization of microbial communities in bioreactors using DNA microarray technology.
Kathleen Hutchison Junior Chemistry	University of Rochester, Rochester, NY	June, 2004 to August, 2004	Characterization of nutrient and algal biomass sources in agricultural drains
Susan Repon Junior Biology	University of Washington, Seattle, WA	June, 2004 to August, 2004	Relationship between chlorophyll concentration and algal biomass as a function of growth rate

Undergraduate Students	University	Dates	Project
Eric Amaro Sophomore Life Sciences	Miami College, Miami, FL	June, 2003 to August, 2003	Biokinetics of algal growth in agricultural drainage
Oliver Paradis Junior Biology	Laney College, Oakland, CA	June, 2002 to August, 2002	Wetland drainage as a source of organic carbon to the San Joaquin River
Deepak Malhorta Sophomore Chemistry	Laney College, Oakland, CA	June 8, 2002 to August, 2002	Bacterial metabolism of MTBE in the presence of competing substrates
Nick Kordesch Senior Environmental Sciences	University of California, Berkeley, CA	October, 2001 to September, 2002	Biological treatment of MTBE and TBA in fluidized- bed bioreactors
Jeremy Hanlon Senior Molecular & Cell Biology	University of California, Berkeley, CA	April, 2000 to December, 2001	Influence of wetland and agricultural return flows on water quality in the Central Valley, CA
Kou-San Ju Senior Environmental Sciences	University of California, Berkeley, CA	August, 2000 to December, 2001	Biokinetics of MTBE degradation by alkane degrading bacteria
Angela Proctor Junior Biology	Southern Utah University	January, 2001 to May, 2001	Biodegradation of acetonitrile and methanol as components of tritiated mixed wastes
Steven Smirga Senior Microbiology	University of Madison, Wisconsin	January, 2001 to August, 2001	Metabolic diversity among alkane degrading bacteria
Nicole Portley Sophomore Biochemistry	Boston College	June, 2000 to September, 2000	Isolation and characterization of alkane degrading bacteria
Junior Biochemistry	McGill University, Montreal	June, 2001 to September, 2001	Metabolic diversity among alkane degrading bacteria
Ruscena Wiederholt Sophomore Biology	University of California, Berkeley	June, 2000 to May, 2001	Isolation and characterization of alkane degrading bacteria

Undergraduate Students	University	Dates	Project
Juan Rodriguez Senior Natural Sciences	Universidad del Turabo, Gurabo, Puerto Rico	June, 2000 to August, 2000	Using bacterial metabolite production to monitor the natural attenuation of PAH in soils
Andre Adams Senior Chemistry	Grambling State, Louisiana	August, 1999 to December, 1999	Analysis of MTBE by microfiber solid phase extraction
Samir Davila-Lopez Senior Chemistry	University of Puerto Rico, Cayey	June, 1999 to August, 1999	Using bacterial metabolite production to monitor the natural attenuation of PAH in soils
Fareeha Syed Senior Chemistry	University of California, Berkeley	June, 1999 to August, 1999	Analysis of MTBE by microfiber solid phase extraction
Stephanie Cheng Sophomore Chemical Engineering	Massachusetts Institute of Technology	June, 1998 to August, 1998	MTBE biodegradation kinetics
Sherry Lee Junior Biology	University of California, Berkeley	September, 1997 to October, 1998	Biological treatment of REDOX plutonium processing wastes
Joyce Bautista Sophomore Integrative Biology	University of California, Berkeley	June, 1997 to August, 1997	Toxicity of metal chelates found in mixed wastes to ketone degrading bacteria