

Kerry L. Sublette
Sarkeys Professor of Environmental Engineering
Departments of Chemical Engineering and Geosciences
The University of Tulsa
600 S. College Ave.
Tulsa, OK 74104-3189
Phone: (918)631-3085
Fax: (918)631-3268
kerry-sublette@utulsa.edu

Education:

B.S., Chemistry, University of Arkansas, 1971
M.S., Biochemistry, University of Oklahoma, 1974
M.S.E., Chemical Engineering, The University of Tulsa, 1980
Ph.D., Chemical Engineering, The University of Tulsa, 1985

Area of Specialization:

Bioremediation of petroleum hydrocarbons, Ecological indicators of soil restoration, Bioreactor design, Microbial transformations of sulfur compounds, Remediation of brine-impacted soil

Professional Experience:

1/05-present	Professor of Geosciences, The University of Tulsa
5/03-present	Adjunct Professor, Ralph E. Martin Dept. of Chemical Engineering, University of Arkansas
10/97-present	Director, Integrated Petroleum Environmental Consortium (IPEC), an EPA Research Center
1/95-present	Sarkeys Professor of Environmental Engineering, The University of Tulsa
8/93-present	Professor, Department of Chemical Engineering, The University of Tulsa
8/89-8/93	Associate Professor, Dept. of Chemical Engineering, The University of Tulsa
3/89-present	Director, Center for Environmental Research and Technology, The University of Tulsa
6/88-3/89	Associate Director, Center for Environmental Research and Technology, The University of Tulsa
1/86-8/89	Assistant Professor, Dept. of Chemical Engineering, The University of Tulsa
8/80-1/86	Combustion Engineering, Natco Division, Tulsa, OK, Research and Development, Crude oil dehydration and desalting and biotechnology
8/78-8/80	The University of Tulsa, Petroleum and Energy Research Institute, Research Associate, Biological waste treatment

8/76-8/78 Tulsa Junior College, Instructor of Chemistry
8/75-8/76 Southwest Missouri State University, Instructor of Chemistry
12/74-8/75 University of Oklahoma, Visiting Instructor of Biochemistry

Professional Memberships:

American Institute of Chemical Engineers
Tau Beta Pi
Sigma Xi
Society for Industrial Microbiology
American Society for Microbiology
American Chemical Society

Honors and Awards:

- Tau Beta Pi Professor of the Month, February, 1987
- Appointed by Governor Henry Bellmon to the Oklahoma Environmental Concerns Council, October, 1988
- Award from Public Service Co. of Oklahoma as recognition of activities of SAVE OKLAHOMA STREAMS (SOS), 1991
- College of Engineering & Applied Sciences Junior Faculty Research Award, 1991
- DuPont Environmental Award, \$25,000 unrestricted grant, 1994
- Sarkeys Professor of Environmental Engineering, 1995
- Fellow, National Energy-Environment Law and Policy Institute, 1995
- R.N. Maddox Distinguished Lecturer, University of Arkansas, 1997
- Appointed by Governor Frank Keating to the IOGCC Environment, Health & Safety Committee, 1998
- Stewardship Award, Oklahoma Chapter of The Nature Conservancy, 2000
- Appointed by the Oklahoma Speaker of the House to CLEER, an advisory board to The Energy Council, 2001
- American Association of Petroleum Geologists' Division of Environmental Geosciences Teaching Award, 2005

Refereed Publications

1. Sublette, Kerry L. and Wilbur, James, "Juglone: A Comparison of Natural and Synthetic Products", J. Chem. Ed., 54, 156 (1977).
2. Sublette, Kerry L., Snider, Eric H. and Sylvester, Nicholas D., "A Review of the Mechanism of Powdered Activated Carbon Enhancement of Activated Sludge Treatment", Water Res., 16, 1075 (1982).
3. Prestridge, Floyd L., Johnson, Bruce C. and Sublette, Kerry L., "Electrostatic Coalescence in a Solvent Extraction Process", A.I.M.E. Transactions, 274, 1959 (1984).
4. Sublette, Kerry L. and Sylvester, N. D., "Microbial Desulfurization of Gases", Biotechnology & Bioengineering Symposium Series No. 17, 543 (1986).
5. Sublette, Kerry L. and Sylvester, N. D., "Oxidation of Hydrogen Sulfide by *Thiobacillus denitrificans*: Desulfurization of Natural Gas", Biotechnology & Bioengineering, 29, 249 (1987).
6. Sublette, Kerry L. and Sylvester, N. D., "Oxidation of Hydrogen Sulfide by Continuous Cultures of *Thiobacillus denitrificans*", Biotechnology & Bioengineering, 29, 753 (1987).

7. Sublette, Kerry L. and Sylvester, N. D., "Oxidation of Hydrogen Sulfide by Mixed Cultures of *Thiobacillus denitrificans* and Heterotrophs", *Biotechnology & Bioengineering*, 29, 759 (1987).
8. Sublette, Kerry L., "Aerobic Oxidation of Hydrogen Sulfide by *Thiobacillus denitrificans*", *Biotechnology & Bioengineering*, 29, 690 (1987).
9. Sublette, Kerry L., "Modeling of Heat Transfer with Chemical Reaction: Cooking a Potato", *Chemical Engineering Education* 21,(4), 204 (1987).
10. Sublette, Kerry L., "Production of Microbial Biomass from Autotrophic Fermentation of Hydrogen Sulfide", *Biotechnology & Bioengineering*, 32, 408 (1988).
11. Sublette, Kerry L., "An Experiment in Autotrophic Fermentation: Microbial Oxidation of Hydrogen Sulfide", *Chemical Engineering Education*, 23, 32 (1989).
12. Ongcharit, Chawan; Dauben, Paul; and Sublette, Kerry L., "Immobilization of an Autotrophic Bacterium by Co-Culture with Floc-Forming Heterotrophs", *Biotechnology & Bioengineering*, 33, 1077 (1989).
13. Dasu, Badri and Sublette, Kerry L., "Microbial Removal of Sulfur Dioxide from a Gas Stream with Net Oxidation to Sulfate", *Applied Biochemistry & Biotechnology*, 20/21, 207 (1989).
14. Sublette, Kerry L., "Immobilization of *Thiobacillus denitrificans* for the Oxidation of Hydrogen Sulfide in Sour Water", *Applied Biochemistry & Biotechnology*, 20/21, 675 (1989).
15. Dasu, Badri and Sublette, Kerry L., "Reduction of Sulfur Dioxide by *Desulfovibrio desulfuricans* in Co-culture with Fermentative Heterotrophs", *Biotechnology & Bioengineering*, 34, 405 (1989).
16. Sublette, Kerry L. and Woolsey, Marion E., "Sulfide and Glutaraldehyde Resistant Strains of *Thiobacillus denitrificans*", *Biotechnology & Bioengineering*, 34, 565 (1989).
17. Montgomery, Anne; McInerney, Michael J.; and Sublette, Kerry L., "Microbial Control of Hydrogen Sulfide Production by Sulfate Reducing Bacteria", *Biotechnology & Bioengineering*, 35, 533 (1990).
18. Lee, Kuoh H. and Sublette, Kerry L., "Reduction of Nitric Oxide to Elemental Nitrogen by *Thiobacillus denitrificans*", *Applied Biochemistry & Biotechnology*, 24/25, 441 (1990).
19. Plumb, Patrick, Lee, Kuoh, Dasu, Badri N. and Sublette, Kerry L., "Microbial Reduction of SO₂ as a Means of By-Product Recovery from Regenerable, Dry Scrubbing Processes for Flue Gas Desulfurization", *Applied Biochemistry & Biotechnology*, 24/25, 785 (1990).
20. Cadenhead, P. K. and Sublette, K. L., "Oxidation of Hydrogen Sulfide by *Thiobacilli*", *Biotechnology & Bioengineering*, 35, 1150 (1990).
21. Ongcharit, Chawan; Shah, Y. T.; and Sublette, K. L., "Novel Immobilized Cell Reactor for Microbial Oxidation of H₂S," *Chem. Eng. Sci.*, 45, 2383 (1990).
22. Sublette, Kerry L.; Dasu, B. N.; Plumb, P.; and Lee, K. H., "Microbial By-Product Recovery From Regenerable Processes for the Removal of Sulfur Dioxide From Flue Gas," in Processing & Utilization of High-Sulfur Coals III, R. Markuszewski and T. D. Wheelock, Eds., Elsevier Science Publishers B.V., Amsterdam (1990).
23. Sublette, Kerry L., "Microbial Treatment of Sour Gases for the Removal and Oxidation of Hydrogen Sulfide", *Gas Separation & Purification*, 4(2), 91 (1990).

24. Sublette, K. L.; Dasu, B. N.; and Lee, K. H., "A Microbial Contribution to the Problem of Flue Gas Desulfurization," in Fermentation Technologies, Pak-Lam Yu, Ed., Elsevier Applied Science, London (1990).
25. Camp, C. E.; Kolb, W. B.; Sublette, K. L.; and Cerro, R. L., "The Measurement of Square Channel Velocity Profiles Using a Microcomputer-Based Imaging System", Experiments in Fluids, 10, 87 (1990).
26. Ongcharit, Chawan; Shah, Y. T.; and Sublette, K. L., "Oxidation of Hydrogen Sulfide by Flocculated *Thiobacillus denitrificans* in Continuous Culture," Biotechnology & Bioengineering, 37, 497 (1991).
27. Lee, Kuoh H. and Sublette, K. L., "Microbial Combined Removal of Sulfur Dioxide and Nitric Oxide from a Gas," Applied Biochemistry & Biotechnology, 28/29, 623 (1991).
28. Sublette, K. L. and Gwozdz, K., "An Economic Analysis of the Microbial Reduction of Sulfur Dioxide as a Means of By-Product Recovery from Regenerable Processes for Flue Gas Desulfurization," Applied Biochemistry & Biotechnology, 28/29, 635 (1991).
29. McInerney, M. J.; Sublette, K. L.; and Montgomery, A. D., "Microbial Control of the Production of Sulfides", in Microbial Enhancement of Oil Recovery-Recent Advances, E. C. Donaldson, Ed., Developments in Petroleum Sci., 31, 441 (1991).
30. Hasan, Saleem; Cho, Jeong-Guk; Sublette, K. L., Pak, Daewon; and Maule, A., "Porphyrin Catalyzed Degradation of Chlorinated Phenols and Nitrosubstituted Toluenes," Journal of Biotechnology 24, 195 (1992).
31. Camp, Carl E. and Sublette, Kerry L., "A Machine Vision System for Controlling a *Thiobacillus denitrificans* Bioreactor Oxidizing Hydrogen Sulfide," Biotechnology & Bioengineering, 39, 529 (1992).
32. Sublette, K. L.; Ganapathy, G. V.; and Schwartz, Surya, "Degradation of Munition Wastes by *Phanaerochaete chrysosporium*," Applied Biochemistry & Biotechnology, 34/35, 709 (1992).
33. Sublette, K. L., "Microbial Stabilization of Active-Sulfide Sludges," Applied Biochemistry & Biotechnology, 34/35, 811 (1992).
34. McInerney, M. J., Bhupathilaju, V. K., and Sublette, K. L., "Microbial Control of Hydrogen Sulfide Production", In: C. Akin and J. Smith (Eds), Oil, Gas, Coal and Environmental Biotechnology V, Institute of Gas Technology, Chicago, IL (1992).
35. Sublette, K. L.; Bhupathiraju, V. K.; and McInerney, M. J., "Evaluation of a Microbial Method to Reduce Hydrogen Sulfide Levels in Porous Rock Biofilm", J. Ind. Micro., 11, 53 (1992).
36. McInerney, M. J.; Sublette, K. L.; Bhupathiraju, V. K.; Coates, J. D.; and Knapp, R. M., "Causes and Control of Microbially-Induced Souring", Dev. Pet. Sci., 39, 393-371 (1993).
37. Lee, Cheng-Ming and Sublette, K. L., "Microbial Treatment of Sulfide-Laden Water," Water Res. 27 (5), 839 (1993).
38. Deshmane, V.; Lee, Cheng-Ming; and Sublette, K. L., "Microbial Reduction of Sulfur Dioxide with Pretreated Sewage Sludge and Elemental Hydrogen as Electron Donors", Applied Biochemistry and Biotechnology, 39/40, 739 (1993).
39. Shanmugasundram, Ramesh; Lee, Cheng-Ming; and Sublette, K. L., "Reduction of Nitric Oxide by Denitrifying Bacteria", Applied Biochemistry and Biotechnology, 39/40, 727 (1993).

40. Kumar, H. B.; Sublette, K. L.; and Shah, Y. T., "Effect of High Voidage on Mass Transfer Coefficient in a Fluidized Bed", *Chem. Eng. Comm.*, 121, 157-163 (1993).
41. Raterman, K.; Selvaraj, P. T.; and Sublette, K. L., "Microbial Treatment of a Synthetic Sour Brine", *J. Industrial Micro.*, 12, 21-28 (1993).
42. Dasu, B. N.; Deshmane, V.; Lee, C. M.; Shanmugasundram, R.; and Sublette, K. L., "Microbial Reduction of Sulfur Dioxide and Nitric Oxide", *Fuel*, 72, 1705-1714 (1993).
43. Sublette, K. L.; McInerney, M. J.; Montgomery, A. D.; and Bhupathiraju, V., "Microbial Oxidation of Sulfides by *Thiobacillus denitrificans* for Treatment of Sour Gases and Water", in Environmental Geochemistry of Sulfide Oxidation, C. N. Alpers and D. W. Blowes, Ed., ACS Symposium Series #550, 68-78 (1994).
44. Lee, Cheng-Ming and Sublette, Kerry L., "Autotrophic Growth of *Desulfotomaculum orientis* with Reduction of Sulfur Dioxide", *Applied Biochemistry and Biotechnology*, 45/46, 417-428 (1994).
45. Hasan, S.; Rajganesh, B.; and Sublette, Kerry L., "Large-Scale Cultivation of *Thiobacillus denitrificans* to support Pilot and Field Tests of a Bioaugmentation Process for Microbial Oxidation of Sulfides", *Applied Biochemistry and Biotechnology*, 45/46, 925-934 (1994).
46. Cho, Jeong-Guk; Potter, William T.; and Sublette, Kerry L., "Porphyrin-Catalyzed Reduction of Nitroaromatics for Treatment of Pink Water", *Applied Biochemistry and Biotechnology*, 45/46, 861-870 (1994).
47. Sublette, Kerry L.; Morse, Daniel; Raterman, Kevin T., "A Field Demonstration of Sour Produced Water Remediation by Microbial Treatment", SPE 26396 (1994) and SPE Production and Facilities, 2, 183-187 (1994)
48. Sublette, Kerry L., "Electrostatic Treatment of Slop Oil for Water and Solids Removal," in Environmental Issues and Solutions in Petroleum Exploration, Production and Refining, (K. L. Sublette, T. M. Harris, and F. S. Manning, Editors), 135-154, PennWell Books, Tulsa, OK (1994).
49. McInerney, M. J., Sublette, K. L., Wofford, N. Q., Bhupathiraju, V. K., and Montgomery, A. D., "Control of Souring by a Sulfide-resistant Strain of *Thiobacillus denitrificans*", in Environmental Issues and Solutions in Petroleum Exploration, Production and Refining, (K. L. Sublette, T. M. Harris, and F. S. Manning, Editors), 659-668, PennWell Books, Tulsa, OK (1994).
50. Raterman, K., Sublette, Kerry L., Selvaraj, P. T., "Microbial Treatment of Sour Produced Water," in Environmental Issues and Solutions in Petroleum Exploration, Production and Refining, (K. L. Sublette, T. M. Harris, and F. S. Manning, Editors), 645-658, PennWell Books, Tulsa, OK (1994).
51. Rajganesh, B., Sublette, K. L., Camp, C. and Richardson, M. R., "Microbial Treatment of Refinery Spent Sulfidic Caustics," in Environmental Issues and Solutions in Petroleum Exploration, Production and Refining, (K. L. Sublette, T. M. Harris, and F. S. Manning, Editors), 669-682, PennWell Books, Tulsa, OK (1994).
52. Shaughnessy, R.; Levetin, E.; Blocker, J.; and Sublette, K. L., "Effectiveness of Portable Air Cleaners: Sensory Testing Results," *Indoor Air*, 4, 179-188 (1994).
53. Lee, Cheng-Ming; McInerney, Michael J.; and Sublette, Kerry L., "Conversion of Sulfur Dioxide to Sulfate and Hydrogen Sulfide by *Desulfotomaculum orientis*," *Fuel Processing Technology*, 40, 123-127 (1994).

54. Potter, W. T.; Cho, J. G.; and Sublette, K. L., "Reduction of Nitric Oxide to Nitrous Oxide Monitored by Fourier Transform Infrared Spectroscopy," *Fuel Processing Technology*, 40, 355-360 (1994).
55. Sublette, K. L.; Hesketh, R.; and Hasan, S., "Microbial Oxidation of Hydrogen Sulfide in a Pilot-scale Bubble Column," *Biotechnology Progress*, 10(6), 611-614 (1994).
56. Cho, Jeong-Guk; Sublette, K. L.; and Raterman, K., "Oxidation of Hydrogen Sulfide by an Enrichment from Sour Water Coproduced with Petroleum," *Applied Biochemistry and Biotechnology*, 51/52, 761-770 (1995).
57. Potter, W. T.; Sublette, K. L.; Shanmugasundaram, R.; Chirkis, A.; Ronda, S. and Cho, Jeong-Guk, "Biomimetic and Microbial Reduction of Nitric Oxide", *Applied Biochemistry and Biotechnology*, 51/52, 771-784 (1995).
58. Habeck, Brian and Sublette, K. L., "Reductive Dechlorination of Tetrachloroethylene Catalyzed by Cyanocobalamin", *Applied Biochemistry and Biotechnology*, 51/52, 747-759 (1995).
59. Rajganesh, B.; Selvaraj, P. T.; Manning, F. S.; and Sublette, K. L., "Biotreatment of Produced Water for Removal of Sulfides, Organics and Toxicity", *Applied Biochemistry and Biotechnology*, 51/52, 735-746 (1995).
60. Rajganesh, B.; Sublette, K. L.; and Camp, C., "Pilot-scale Biotreatment of Refinery Spent-sulfidic Caustic", *Applied Biochemistry and Biotechnology*, 51/52, 661-671 (1995).
61. Rajganesh, B.; Sublette, K. L.; Camp, C.; and Richardson, M. R., "Biotreatment of Refinery Spent-sulfidic Caustic," *Biotechnology Progress*, 11, 228-230 (1995).
62. Selvaraj, P. T. and Sublette, Kerry L., "Microbial Reduction of Sulfur Dioxide with Anaerobically Digested Municipal Sewage Biosolids as Electron Donor," *Biotechnology Progress*, 11, 153-158 (1995).
63. Barker, G. W., Raterman, K. T., Fisher, J. B., Corgan, J. M., Trent, G. L., Brown, D. R. and Sublette, K. L., "Assessment of Natural Hydrocarbon Bioremediation at Two Gas Condensate Production Sites", in: R.E. Hinchee, John T. Wilson, and Douglas C. Downey (Eds), *Intrinsic Bioremediation*, Battelle Press, Columbus, OH (1995).
64. Selvaraj, P. T. and Sublette, Kerry L., "An Economic Analysis of Microbial Reduction of Sulfur Dioxide with Anaerobically Digested Sewage Biosolids as Electron Donor", *Applied Biochemistry and Biotechnology*, 57/58, 1003-1012 (1996).
65. Kolhatkar, Arati and Sublette, K. L., "Biotreatment of Spent Sulfidic Caustic by Specialized Cultures and Acclimated Activated Sludge", *Applied Biochemistry and Biotechnology*, 57/58, 945-958 (1996).
66. McInerney, M. J., Wofford, N. Q. and Sublette, K. L., "Microbial Control of Hydrogen Sulfide Production in a Porous Medium", *Applied Biochemistry and Biotechnology*, 57/58, 933-944 (1996).
67. Borole, A. P., Sublette, K. L., Fisher, J. B., Raterman, K. T., Kemp, N. P., and McInerney, M. J., "Mechanisms of Intrinsic Bioremediation of Gas Condensate Hydrocarbons in Saturated Soil", *Applied Biochemistry and Biotechnology*, 57/58, 817-826 (1996).
68. Barker, G. W., Raterman, K. T., Fisher, J. B., Trent, G. L., Brown, D. R., Kemp, N. and Sublette, K. L., "A Case Study of the Natural Attenuation of Gas Condensate Hydrocarbons in Soil and Groundwater", *Applied Biochemistry and Biotechnology*, 57/58, 791-802 (1996).

69. Sublette, K. L., Plato, A., Camp, C. and Bair, T., "Immobilization of a Sulfide-oxidizing Bacterium in a Novel Adsorbent Biocatalyst Support", *Applied Biochemistry and Biotechnology*, 57/58, 1013-1020 (1996).
70. Sublette, Kerry L. and Manning, F. S., "Dehydration of Crude Oil", in *Oilfield Processing, Vol. II: Crude Oil* by F. S. Manning and R. E. Thompson, PennWell Books, Tulsa, OK (1995).
71. Sublette, Kerry L. and Manning, F. S., "Desalting of Crude Oil", in *Oilfield Processing, Vol. II: Crude Oil* by F. S. Manning and R. E. Thompson, PennWell Books, Tulsa, OK (1995).
72. McInerney, M. J. and Sublette, K. L., "Petroleum Microbiology: Biofouling, Souring, and Improved Oil Recovery", (Chapter 65) in *Manual of Environmental Microbiology*, C J. Hurst, G. R. Knudsen, M. J. McInerney, L. D. Stezenbach and M. V. Walter (Eds), American Society of Microbiology Press, Washington, D.C. (1996).
73. Sublette, K. L., Kolhatkar, R. V., Trent, G., Raterman, K. T., Fisher, J. B. and Javanmardian, M., "Intrinsic Bioremediation of Gas Condensate Hydrocarbons: Results of Over Two Years of Groundwater and Soil Core Analysis", *Applied Biochemistry and Biotechnology*, 63-65, 823-834 (1997).
74. Lawlor, K., Sublette, K. L., Duncan, K., Levetin, E., Buck, P., Wells, H., Jennings, E., Hettenbach, S., Bailey, S., Fisher, J. B. and Todd, T., "Long-term Effects of Crude Oil Contamination and Bioremediation in a Soil Ecosystem", *Bioremediation Journal*, 1, 41-51 (1997).
75. Sublette, K. L., "A Preliminary Cost Analysis of the Biotreatment of Refinery Spent Sulfidic Caustic", *Applied Biochemistry and Biotechnology*, 63-65, 695-706 (1997).
76. Borole, A., Sublette, K. L., Raterman, K. T., Fisher, J. B. and Javanmardian, M., "The Potential for Intrinsic Bioremediation of BTEX Hydrocarbons in Soil and Groundwater Contaminated with Gas Condensate", *Applied Biochemistry and Biotechnology*, 63-65, 719-730 (1997).
77. Hasan, S. and Sublette, K. L., "Porphyrin-catalyzed Oxidation of Trichlorophenol", *Applied Biochemistry and Biotechnology*, 63-65, 845-854 (1997).
78. Subramaniyan, A., Sublette, K.L., Kolhatkar, R. and Beitle, R., "Microbial Oxidation of Mixtures of Methylmercaptan and Hydrogen Sulfide", *Applied Biochemistry and Biotechnology*, 70-72, 995-1006 (1998).
79. Duncan, K., Jennings, E., Hettenbach, S., Potter, W., Sublette, K.L., Subramaniam, G. and Narasimhan, R., "Nitrogen Cycling and Nitric Oxide Emissions in Oil-Impacted Prairie Soils", *Bioremediation Journal*, 1(3). 195-208 (1998).
80. Sublette, K.L., Kolhatkar, R. and Raterman, K., "Technological Aspects of the Microbial Treatment of Sulfide-rich Wastewaters: A Case Study", *Biodegradation*, 9(3-4), 259-271 (1998).
81. Duncan, K., Kolhatkar, R., Subramanian, G., Narasimhan, R., Jennings, E., Hettenbach, S., Brown, A., McComas, C., Potter, W.T., and Sublette, K.L., "Microbial Dynamics of Oil-Impacted Prairie Soil", *Applied Biochemistry and Biotechnology*, 77-79, 421-434 (1999).
82. Gieg, L.M., Kolhatkar, R., McInerney, M.J., Tanner, R.S., Harris, Jr., S.H., Sublette, K.L. and Suflita, J.M., "Intrinsic Bioremediation of Petroleum Hydrocarbons in a Gas Condensate-Contaminated Aquifer", *Environmental Science and Technology*, 33(15), 2550-2560 (1999).
83. Conner, J.A., Beitle, R.R., Duncan, Kathleen, Kolhatkar, R., and Sublette, K.L., "Biotreatment of Refinery Spent Sulfidic Caustic Using an Enrichment Culture Immobilized in a Novel Support Matrix", *Applied Biochemistry and Biotechnology*, 84-86, 707-719 (2000).

84. McComas, Charles, Sublette, Kerry L., Jenneman, Gary, and Bala, Greg, "Characterization of a Novel Biocatalyst System for Sulfide Oxidation", *Biotechnology Progress*, 17 (3), 439-446 (2001)
85. Duncan, Kathleen, Sublette, Kerry L., Rifer, Patricia, Stepp, A., Beitle, R., Conner, J.A., and Kolhatkar, R., "Analysis of a Microbial Community Oxidizing Inorganic Sulfide and Mercaptans", *Biotechnology Progress*, 17 (4), 768-774 (2001)
86. Sublette, K.L., Kolhatkar, R., Pim, K., Kolhatkar, A., Duncan, K.E., Miller, B., Fogg, R., Rider, P., Stepp, A., Carey, M., Todd, T. and Cross, A., "Long-term Impacts of a Crude Oil Spill on a Pristine Soil Ecosystem", *Proceedings of the 25th Arctic and Marine Oilspill Program Technical Seminar, Calgary, Alberta, Volume 2*, 979-1011 (2002)
87. Sublette, K.L., Duncan, K.E., Thoma, G. and Todd, T., "Characterization of the Vadose Zone Above a Shallow Aquifer Contaminated with Gas Condensate Hydrocarbons", *Proceedings of the 25th Arctic and Marine Oilspill Program Technical Seminar, Calgary, Alberta, Volume 2*, 1013-1050 (2002)
88. Duncan, K., Jennings, E., Buck, P., Wells, H., Kolhatkar, R., Sublette, K.L., Potter, W.T., and Todd, T., "Multi-Species Ecotoxicity Assessment of Petroleum-Contaminated Soil", *Soil and Sediment Contamination*, 12(2), 181-206 (2003)
89. White, D.C., Gouffon, J., Peacock, A., Geyer, R., Biernacki, A., Davis, G., Pryor, M., Tabacco, B., and Sublette, K.L., "Forensic Analysis by Comprehensive Rapid Detection of Pathogens and Contamination Concentrated in Biofilms in Drinking Water Systems for Water Resource Management", *Environmental Forensics*, 4, 63-74 (2003)
90. Collao, N.I., Jenneman, G.E., Bishop, M.D., Young, S.K., Morrison, A. G., and Sublette, K.L., "Biological Degradation of Solvent Extraction Circuit Plant Organic", 5th International Symposium on Hydrometallurgy, Vancouver, British Columbia, Canada, in Leaching & Solution Purification: The Minerals, Metals & Materials Society, Eds C.A. Young, A.M. Alfantazi, G. G. Anderson, D.B. Dreisinger, and A. James, Volume 1, 1003 (2003)
91. Jenneman, G.E., Webb, R.H., Holle, E., Sublette, K.L., Mehta, C., Peacock, A. D., and Davis, G., "Evaluation of an On-Line Biofilm Detector and Bio-Traps for Monitoring MIC in Produced Oilfield Brine", Paper # 04758,04-TEG-286X, Symposium NACE International's Annual Conference, CORROSION/2004 New Orleans (2004)
92. Peacock, A.D., Chang, Y-J., Istok, J. D., Krumholz, L., Geyer, R., Kinsall, B., Watson, D., Sublette, K.L., and D.C. White, "Utilization of Microbial Biofilms as Monitors of Bioremediation", *Microbial Ecology*, 47, 284-292 (2004)
93. Geyer, R., Peacock, A.D., Miltner, A., Richnow, H.-H., White, D.C., Sublette, K.L., and Kästner, M. "*In situ* assessment of microbial activity using microcosms loaded with ¹³C-labeled benzene or toluene", *Environmental Science and Technology*, 39, 4983-4989 (2005)
94. Jager, H.I., Efroymson, R.A., Sublette, K.L., and Ashwood, T.A., "Unnatural Landscapes in Ecology: Generating the Spatial Distribution of Brine Spills", *Environmetrics*, 16,G 687-698 (2005)
95. Harris, T.M., Tapp, J.B., and Sublette, K.L., "Remediation of Oilfield Brine-impacted Soil Using a Subsurface Drainage System", *Environmental Geosciences*, 12, 101-113 (2005)

96. Moralwar, A., Sublette, K.L., Ford, L.P., Duncan, K., Thoma, G., and Brokaw, J., "Remediation of a Spill of Crude Oil and Brine Without Gypsum", *Environmental Geosciences*, 12, 115-125 (2005)
97. Fisher, J.B. and Sublette, K.L., "Environmental Releases from E&P Operations in Oklahoma: Type, Volume, Causes and Prevention", *Environmental Geosciences*, 12, 89-99 (2005)
98. Sublette, K.L., Peacock, A., White, D.C., Davis, G., Ogles, D., Cook, D., Kolhatkar, R., Yang, X., and Beckmann, D., "Monitoring Subsurface Microbial Ecology in a Sulfate-amended, Gasoline-contaminated Aquifer", accepted for publication in *Ground Water Monitoring & Remediation* (2005)
99. Chang, Y-J, Long, P.E., Geyer, R., Peacock, A.D., Resch, C.T., Sublette, K.L., Pfiffner, S., Smithgail, A., Anderson, R.T., Vrionis, H.A., Stephen, J.R., Dayvault, R., Ortiz-Bernad, I., Lovley, D.R., and White D.C., "Microbial Incorporation of ¹³C-Labeled Acetate at the Field Scale: detection of microbes Responsible for Reduction of U(VI), accepted for publication in *Environmental Science & Technology* (2005)

Patents

1. Sublette, Kerry L. and Prestridge, Floyd L., "An Electrostatically Enhanced Inclined Plate Separator", U.S. Patent No. 4,469,582 (1984); European Patent No. 0089471; Canadian Patent No. 1,201,412; Japanese Patent No. 1,452,856; Korean Patent No. 23,422; Mexican Patent No. 154,574.
2. Sublette, Kerry L. and Prestridge, Floyd L., "Method and Apparatus for Separating Oilfield Emulsions", U.S. Patent No. 4,581,120 (1986); Canadian Patent No. 1,254,171 (1989).
3. Sublette, Kerry L., "Aerobic Oxidation of Hydrogen Sulfide with *Thiobacillus denitrificans*", U.S. Patent No. 4,760,027 (1988); pending with European Patent Office (App. No. 87,105,223.9), Canadian Patent Office (App. No. 532,590), Indonesian Patent Office (App. No. 12,039), Venezuelan Patent Office (App. No. 523).
4. Sublette, Kerry L. and Prestridge, Floyd L., "Resolution of Emulsions with Multiple Electric Fields", U.S. Patent No. 4,804,453 (1989); European Patent No. 0096739; Canadian Patent No. 1,225,365; Japanese Patent No. 1,484,400; Korean Patent No. 34,264; Mexican Patent No. 152,787; Venezuelan Patent No. 46,476.
5. Sublette, Kerry L., "Production of Single Cell Protein by Autotrophic Fermentation of Hydrogen Sulfide", U.S. Patent No. 4,859,588 (1989).
6. Sublette, Kerry L., Woolsey, Marion E., Manning, Frank, Montgomery, Anne D., and McInerney, Michael J., "Microbial Control of Hydrogen Sulfide Production by Sulfate Reducing Bacteria", U.S. Patent No. 4,879,240 (1989); pending with European Patent Office (App. No. 89,111,812.7), Canadian Patent No. 1,334,946 (1995).
7. Sublette, Kerry L., "A Biofilter for the Treatment of Sour Water", U.S. Patent No. 4,880,542 (1989).
8. Sublette, Kerry L., "Catalytic Oxidation of Hazardous Wastes", U.S. Patent No. 5,004,551 (1991).
9. Sublette, Kerry L., "Catalytic Reduction of Nitro and Nitroso Substituted Organics", U.S. Patent No. 5,032,291 (1991).
10. Sublette, Kerry L., "Microbial Removal of NO_x from Gases", U.S. Patent No. 5,077,208 (1991).

11. Sublette, Kerry L., "Microbial Process for the Reduction of Sulfur Dioxide", U.S. Patent No. 5,269,929 (1993).
12. Sublette, Kerry L., "Biotreatment Process for Caustics Containing Inorganic Sulfides", U.S. Patent No. 5,480,550 (1996).
13. Sublette, Kerry L., "Apparatus and Methods for Forming Microcultures Within Porous Media", Patent No. 6,908,556 (2005).

Professional Presentations

1. "Microbial Hydrogen Sulfide Removal from Natural Gas", Fourth Annual Combustion Engineering Technology Awareness Conference, Atlanta, GA (May 1983)
2. "Electrostatic Coalescence in a Solvent Extraction Process", Fall Meeting of the Society of Mining Engineers of A.I.M.E., Salt Lake City, UT (Oct. 1983)
3. "Microbial Desulfurization of Gases", Eighth Symposium on Biotechnology for Fuels and Chemicals, Gatlinburg, TN (May 1986)
4. "An Experiment in Autotrophic Fermentation for Chemical Engineers", National Meeting of A.I.Ch.E., Miami, FL (Nov. 1986)
5. "Oxidation of Hydrogen Sulfide by *Thiobacillus denitrificans*", Dept. of Biological Sciences, University of Tulsa (Dec. 1986)
6. "Microbial Oxidation of Hydrogen Sulfide", Dept. of Chemical Engineering, University of Arkansas, Fayetteville, AR (Jan. 1987)
7. "Microbial Oxidation of Hydrogen Sulfide", Dept. of Chemical Engineering, Oklahoma State University, Stillwater, OK (March 1987)
8. "In Situ Biological Treatment of Hazardous Wastes", Hazardous Waste Management Seminar, Engineer's Society of Tulsa, Tulsa, OK (April 1987)
9. "Oxidation of Hydrogen Sulfide by *Thiobacillus denitrificans* with Production of Single Cell Protein", Ninth Symposium on Biotechnology for Fuels and Chemicals, Boulder, CO (May 1987)
10. "Biological Removal of Hydrogen Sulfide from Gases", Second Annual Conference on Hazardous Waste Research, Kansas State University, Manhattan, KS (May 1987)
11. "Microbial Oxidation of Hydrogen Sulfide", 1987 Particulate/Powder Technology, Microcontamination and Biotechnology Exhibition, Boston, MA (August 1987)
12. "Microbial Desulfurization of Natural Gas", Summer National Meeting of A.I.Ch.E., Minneapolis, MN (August 1987)
13. "Immobilization of *Thiobacillus denitrificans* for the Oxidation of Hydrogen Sulfide in Sour Water", Tenth Symposium on Biotechnology for Fuels and Chemicals, Gatlinburg, TN (May 1988)
14. "Microbial Removal of Sulfur Dioxide from Gas with Net Oxidation to Sulfate", Tenth Symposium on Biotechnology for Fuels and Chemicals, Gatlinburg, TN (May 1988)
15. "Oxidation of Hydrogen Sulfide by *Thiobacillus denitrificans* Immobilized by Co-Culture with Floc-Forming Heterotrophs", Third Annual Conference on Hazardous Waste Research, Kansas State University, Manhattan, KS (May 1988)

16. "Microbial Reduction of Sulfur Dioxide", Third Annual Conference on Hazardous Waste Research, Kansas State University, Manhattan, KS (May 1988)
17. "Microbial Desulfurization of Gases with the Autotroph *Thiobacillus denitrificans*", Eighth International Biotechnology Symposium, Paris, France (July 1988)
18. "Removal of Hydrogen Sulfide from Gases with *Thiobacillus denitrificans*", CHEMECA '88, Institute of Engineers, Australia, Sydney, Australia (Aug. 1988)
19. "Biological Removal of Hydrogen Sulfide from Coal Synthesis Gas", ACS Symposium - Chemistry of Microbial Coal Conversion and Bioprocessing of Coal, Los Angeles, CA (Sept. 1988)
20. "Immobilization of *Thiobacillus denitrificans* for the Oxidation of Hydrogen Sulfide", National Meeting of the American Institute of Chemical Engineers, Washington, DC (Nov. 1988)
21. "A Microbial Contribution to the Problem of Flue Gas Desulfurization and NO_x Removal", Annual Meeting of the Missouri Valley Branch of the American Society for Microbiology, The University of Tulsa (March 1989); and Pentasectional Meeting of the American Chemical Society, The University of Tulsa (April 1989)
22. "Microbial Oxidation of Inorganic Sulfide in Sour Water", Annual Meeting of the Missouri Valley Branch of the American Society for Microbiology, The University of Tulsa (March 1989)
23. "Microbial Oxidation of Inorganic Sulfides in a Municipal or Industrial Landfill", 5th International Conference on Solid Wastes, Sludges and Residual Materials: Characterization, Technology, Management and Public Policy, Rome, Italy (April 1989)
24. "Reduction of Nitric Oxide to Elemental Nitrogen by *Thiobacillus denitrificans*", 11th Symposium on Biotechnology for Fuels and Chemicals, Colorado Springs, CO (May 1989); and Fourth Annual Conference on Hazardous Waste Research, Kansas State University, Manhattan, KS (May 1989)
25. "Microbial Reduction of SO₂ as a Means of By-Product Recovery from Regenerable, Dry Scrubbing Processes for Flue Gas Desulfurization", 11th Symposium on Biotechnology for Fuels and Chemicals, Colorado Springs, CO (May 1989)
26. "A Microbial/Claus Process for the Production of Elemental Sulfur from Sulfur Dioxide", Fourth Annual Conference on Hazardous Waste Research, Kansas State University, Manhattan, KS (May 1989)
27. "Reductive Degradation of Hazardous Wastes Catalyzed by Organometallic Complexes", Fourth Annual Conference on Hazardous Waste Research, Kansas State University, Manhattan, KS (May, 1989)
28. "Chemical, Microbial and Electrostatic Treatment of Oil Sludge Pits for Resource Recovery", Meeting of the Petroleum Environmental Research Forum, Washington, DC (June 1989)
29. "Immobilization of *Thiobacillus denitrificans* by Co-Culture with Floc-Forming Heterotrophs", 20th Annual Meeting of the Fine Particle Society, Boston, MA (August 1989)
30. "Microbial Removal of SO_x and NO_x From Flue Gas", Advanced Research & Technology Development: Direct Utilization, Instrumentation & Diagnostics, Morgantown, WV (Oct. 1989)
31. Conference Chairman, CERT Symposium on Environmental Protection in the Energy Industry, University of Tulsa, Tulsa, OK (Dec. 1989)

32. "Microbial By-Product Recovery from Regenerable Processes for the Removal of Sulfur Dioxide from Flue Gas", Third International Conference on Processing & Utilization of High Sulfur Coal, Ames, Iowa (Nov. 1989)
33. "Immobilization of the Chemoautotroph *Thiobacillus denitrificans* for the Oxidation of Hydrogen Sulfide", Annual Meeting of the American Institute of Chemical Engineers, San Francisco, CA (Nov. 1989)
34. "Microbial Reduction of SO₂ and NO_x for By-Product Recovery from Regenerable Processes for Flue Gas Desulfurization," Symposium on Environmental Protection in the Energy Industry, University of Tulsa, Tulsa, OK (Dec. 1989)
35. "Microbial Oxidation of Inorganic Sulfide in Gases, Sour Water and Sludges," Symposium on Environmental Protection in the Energy Industry, University of Tulsa, Tulsa, OK (Dec. 1989)
36. "A Microbial Contribution to the Problem of Flue Gas Desulfurization", International Conference on Fermentation Technologies: Industrial Applications, Palmerston North, New Zealand (Feb. 1990)
37. "Microbial By-Product Recovery from Regenerable Processes for Flue Gas Desulfurization and NO_x Removal," APBioChEC '90 Asia-Pacific Biochemical Engineering Conference, Kyungju, Korea (April 1990)
38. "Immobilization of the Chemoautotroph *Thiobacillus denitrificans* for the Removal of H₂S from Biogas," APBioChEC '90 Asia-Pacific Biochemical Engineering Conference, Kyungju, Korea (April 1990)
39. Session Chairman, Waste Treatment Session, APBioChEC '90 Asia-Pacific Biochemical Engineering Conference, Kyungju, Korea (April 1990)
40. Vice-Chairman, The Reality & Consequences of a Global Climate Warming, a symposium sponsored by the University of Tulsa and the International Council of Tulsa (April 1990)
41. "Microbial Reduction of SO₂ as a Means of By-Product Recovery from Regenerable Processes for Flue Gas Desulfurization," First International Symposium on the Biological Processing of Coal, Orlando, FL (May 1990)
42. "Microbial Combined Removal of SO₂ and NO from a Gas," 12th Symposium on Biotechnology for Fuels & Chemicals, Gatlinburg, TN (May 1990)
43. "An Economic Analysis of the Microbial Reduction of Sulfur Dioxide as a Means of By-Product from Regenerable Processes for Flue Gas Desulfurization," 12th Symposium on Biotechnology for Fuels & Chemicals, Gatlinburg, TN (May 1990)
44. "Microbial Control of the Production of Sulfide by Sulfate-Reducing Bacteria," 1990 International Conference on Microbial Enhancement of Oil Recovery, Norman, OK (May 1990)
45. "Novel Immobilized Cell Reactor for Microbial Oxidation of H₂S," 11th International Symposium on Chemical Reaction Engineering, Toronto, Canada (July 1990)
46. "Global Warming," Engineering Society of Tulsa, Tulsa, OK (July 1990)
47. "Microbial By-Product Recovery from Regenerable Processes for Flue Gas Desulfurization and NO_x Removal," Summer National Meeting of the American Institute of Chemical Engineers, San Diego, CA (August 1990)

48. "Porphyrin Catalyzed Degradation of Chlorinated Phenols and Nitro-Substituted Toluenes," Eighth International Biodeterioration & Biodegradation Symposium, Windsor, Ontario (August 1990); and the International Conference on the Industrial Applications of Natural, Modified & Artificial Enzymes, Pisa, Italy (September 1990)
49. "Microbial Reduction of SO₂ and NO_x as a Means of By-Product Recovery/Disposal From Regenerable Processes for the Desulfurization of Flue Gas," AR & TD Direct Utilization & Instrumentation & Diagnostics Contractors' Review Meeting, U.S. Dept. of Energy, Pittsburgh, PA (Sept. 1990).
50. "Porphyrin Catalyzed Degradation of Hazardous Wastes," National Meeting of the American Institute of Chemical Engineers, Chicago, IL (Nov. 1990)
51. "Microbial Oxidation of Biotic & Abiotic Hydrogen Sulfide by *Thiobacillus denitrificans*," Institute of Gas Technology International Symposium on Gas, Oil, Coal & Environmental Biotechnology, New Orleans, LA (Dec. 1990)
52. Conference Chairman, Second Annual CERT Symposium on Environmental Protection in the Energy Industry, University of Tulsa, Tulsa, OK (Dec. 1990)
53. "Abiotic Degradation of Hazardous Wastes," Tyndall Air Force Base, Panama City, FL, by invitation (Feb., 1991)
54. "An Activated Sludge System for Removing Hydrogen Sulfide From Biogas," International Conference on Environmental Pollution, Lisbon, Portugal (April 1991)
55. "Microbial and Biomimetic Degradation of Munitions Wastes," International Conference on Environmental Pollution, Lisbon, Portugal (April 1991)
56. Session chairman, Soil Pollution & Control, International Conference on Environmental Pollution, Lisbon, Portugal (April 1991)
57. "Degradation of Munitions Waste by *Phanerochaete chrysosporium*," 13th Symposium on Biotechnology for Fuels & Chemicals, Colorado Springs, CO (May 1991)
58. "Microbial Stabilization of Active-Sulfide Sludges," 13th Symposium on Biotechnology for Fuels & Chemicals, Colorado Springs, CO (May 1991)
59. "Microbial Removal of H₂S from Biogas," 6th International Symposium on Anaerobic Digestion, Sao Paulo, Brazil (May 1991)
60. "Microbial Control of the Production of Sulfide by Sulfate-Reducing Bacteria", Fourth World Congress of Chemical Engineering, Karlsruhe, FRG (June 1991)
61. "Porphyrin Catalyzed Degradation of Chlorinated Phenols and Nitro-Substituted Toluenes", Fourth World Congress of Chemical Engineering, Karlsruhe, FRG (June 1991)
62. "Microbial Methods for Sulfide Control", by invitation, Norsk Viftfabrikk, Oslo, Norway (June 1991)
63. "Innovations in Electrostatic Treatment of Oily Sludges", by invitation, Conoco, Inc., Ponca City, OK (July 1991)
64. "Microbial Reduction of SO₂ and NO_x as a Means of By-Product Recovery/Disposal from Regenerable Processes for the Desulfurization of Flue Gas", DOE Seventh Annual Coal Preparation, Utilization and Environmental Control Contractors Meeting, Pittsburgh, PA (July 1991)

65. "Microbial Treatment of Sour Water", Summer National Meeting of the American Institute of Chemical Engineers, Pittsburgh, PA (August 1991)
66. "Oxidation of Chlorinated Phenols Catalyzed by Iron-Centered Porphyrins, 33rd IUPAC Congress, Budapest, Hungary (August 1991)
67. "Gas-Fed Fermentations for Waste Gas Treatment", by invitation, Conoco, Inc., Ponca City, OK (Oct. 1991)
68. "Microbial Treatment of Sulfide-Laden Waste Water," Asian Waterqual '91 (Third IAWPRC Regional Conference on Development & Water Pollution Control), Shanghai, Peoples Republic of China (Nov. 1991)
69. Session Chairman, Water Pollution Control Technologies, Asian Waterqual '91 (Third IAWPRC Regional Conference on Development and Water Pollution Control), Shanghai, Peoples Republic of China (Nov. 1991)
70. Conference Chairman, Third Annual CERT Symposium on Environmental Protection in the Energy Industry, University of Tulsa, Tulsa, OK (Dec. 1991)
71. "Microbial Control of Sulfides in Sour Gas and Sour Water", Quarterly meeting of the Petroleum Environmental Research Forum, Tulsa, OK (March 1992)
72. "Portable Indoor Air Cleaners: A Comparison of Cleaning Technologies", with Estelle Levetin (speaker) and R. Shaughnessy, Annual Meeting of the American Academy of Allergy and Immunology, Orlando, FL (March 1992)
73. "Innovations in the Dehydration of Crude Oil and Applications in Desalting", by invitation Petroleum Environmental Research Forum Desalter Conference, Houston, TX (March 1992)
74. "Microbial Oxidation of Inorganic Sulfides-Applications in Municipal Waste Treatment", by invitation, Swedish Environmental Research Institute, Stockholm, Sweden (April 1992)
75. "Microbial Removal of Hydrogen Sulfide from Biogas", International Symposium on Anaerobic Digestion of Solid Waste, Venice, Italy (April 1992)
76. "Microbial Reduction of Sulfur Dioxide and Nitric Oxide", Third International Symposium on the Biological Processing of Coal", Clearwater Beach, FL (May 1992)
77. "Reduction of Nitric Oxide by Denitrifying Bacteria", 14th Symposium on Biotechnology for Fuels and Chemicals, Gatlinburg, TN (May 1992)
78. "Microbial Reduction of Sulfur Dioxide with Pretreated Sewage Sludge and Elemental Hydrogen as Electron Donors", 14th Symposium on Biotechnology for Fuels and Chemicals, Gatlinburg, TN (May 1992)
79. "Microbial Control of Hydrogen Sulfide Production" with Michael McInerney and V. K. Bhupathiraji (speaker), American Society of Microbiology General Meeting, New Orleans, LA (May 1992)
80. "Microbial Treatment of Spent Sulfidic Sludges", by invitation Quarterly meeting of the Petroleum Environmental Research forum, Ponca City, OK (June 1992)
81. "Effectiveness of Portable Air Cleaners in a Clean Room Setting", with Estelle Levetin (speaker) and R. Shaughnessy, Pan American Annual Meeting of the Aerobiology Association, Toronto, Ont. (June 1992)

82. "Microbial Reduction of SO₂ and NO_x as a Means of By-Product Recovery/Disposal from Regenerable Processes for the Desulfurization of Flue Gas", Eighth Annual Coal Preparation, Utilization, and Environmental Control Contractors Conference, U.S. Dept. of Energy, Pittsburgh, PA (July, 1992)
83. "Oxidation of Sulfides *Thiobacillus denitrificans* for Treatment of Sour Water and Gases", 204th National Meeting of the American Chemical Society, Washington, DC (August 1992)
84. "Microbial Control of Hydrogen Sulfide Production", with M. J. McInerney and V. K. Bhupathiraju, 204th National Meeting of the American Chemical Society, Washington, DC (August 1992)
85. "Microbial Treatment of a Synthetic Sour Brine" with Kevin Raterman and P. T. Selvaraj, IGT Symposium on Gas Oil and Environmental Biotechnology, Chicago, IL (Sept. 1992).
86. "Causes and Control of Microbially-Induced Souring", with M. J. McInerney (speaker), J. D. Coates, V. Bhupathiraju, and R. M. Knapp", International Conference on Microbial Enhancement of Oil Recovery, Brookhaven National Lab, NY (Sept. 1992)
87. "Microbial Control of Hydrogen Sulfide Production", with Michael McInerney and V. K. Bhupathiraju, IGT Symposium on Gas Oil and Environmental Biotechnology, Chicago, IL (Sept. 1992)
88. "Microbial Reduction of Sulfur Dioxide and Nitric Oxide", IGT Symposium on Gas Oil and Environmental Biotechnology, Chicago, IL (Sept. 1992)
89. "Microbial Removal of Hydrogen Sulfide from Biogas", Second International Symposium on Waste Management Problems in Agro-Industries, Istanbul, Turkey (Sept., 1992)
90. "Microbial Removal of Hydrogen Sulfide from Biogas", 7th European Conference on Biomass for Energy and Environment, Agriculture and Industry, Florence, Italy (Oct. 1992)
91. "Full-Scale Field Test of a Microbial Sulfide Oxidation Process in an Oil Field Sour Water Retention Pond," with K. Raterman, Fifteenth Symposium on Biotechnology for Fuels and Chemicals, Colorado Springs, CO (May 1993)
92. "Autotrophic Growth of *Desulfotomaculum orientis* with Reduction of Sulfur Dioxide", Fifteenth Symposium on Biotechnology for Fuels and Chemicals, Colorado Springs, CO (May 1993)
93. "Porphyrin-Catalyzed Reduction of Nitroaromatics for the Treatment of Pink Water, Fifteenth Symposium on Biotechnology for Fuels and Chemicals, Colorado Springs, CO (May 1993)
94. "Large-Scale Production of *Thiobacillus denitrificans* Biomass to Support Pilot and Field Tests of Microbial Sulfide Oxidation", Fifteenth Symposium on Biotechnology for Fuels and Chemicals, Colorado Springs, CO (May 1993)
95. "Reduction of Nitric Oxide by Cobalt-Centered Hematoporphyrin Monitored by Fourier Transform Infrared Spectroscopy," with T. Potter, Fourth International Symposium on Biological Processing of Fossil Fuels, Alghero, Italy (September 1993)
96. "Conversion of Sulfur Dioxide to Sulfate and Hydrogen Sulfide by *Desulfotomaculum orientis*", Fourth International Symposium on Biological Processing of Fossil Fuels, Alghero, Italy (September 1993)
97. "A Field Demonstration of Sour Produced Water Remediation by Microbial Treatment", with K. Raterman (speaker), Society of Petroleum Engineers 68th Annual Technical Conference, Houston, TX (October 1993)

98. "Autotrophic Growth of *Desulfotomaculum orientis* with Reduction of Sulfur Dioxide", IGT Sixth International Symposium on Gas, Oil and Environmental Biotechnology, Colorado Springs, CO (November 1993)
99. "Microbial Oxidation of Hydrogen Sulfide in a Pilot-scale Bubble Column", IGT Sixth International Symposium on Gas, Oil and Environmental Biotechnology, Colorado Springs, CO (November 1993)
100. "A Field Demonstration of Sour Produced Water Remediation by Microbial Treatment", with Kevin Raterman, IGT Sixth International Symposium on Gas, Oil and Environmental Biotechnology, Colorado Springs, CO (November 1993)
101. "Reduction of Nitric Oxide by Cobalt-centered Porphyrin Monitored by Fourier Transform Infrared Spectroscopy", with W. T. Potter (speaker), The Oxygen Society, Charleston, SC (1993)
102. "Microbial Enhancement of Oil Recovery", five-day short course, Pertamina Training Center, Jakarta, Indonesia (December, 1993)
103. "Microbial Oxidation of Hydrogen Sulfide in a Pilot-scale Bubble Column", Seventh International Symposium on Anaerobic Digestion, Cape Town, South Africa (January, 1994)
104. Conference Chairman, International Petroleum Environmental Conference: Issues and Solutions in Exploration, Production and Refining, Sponsored by the University of Tulsa and PennWell Books, Houston, TX (March 1994)
105. "Microbial Treatment of Refinery Spent-sulfidic Caustics", International Petroleum Environmental Conference: Issues and Solutions in Exploration, Production and Refining, Houston, TX (March 1994)
106. "Electrostatic Treatment of Slop Oils for Water and Solids Removal", International Petroleum Environmental Conference: Issues and Solutions in Exploration, Production and Refining, Houston, TX (March 1994)
107. "Microbial Treatment of Sour Produced Water", International Petroleum Environmental Conference: Issues and Solutions in Exploration, Production and Refining, Houston, TX (March 1994)
108. "Microbial and Biomimetic Reduction of Nitric Oxide", 16th Symposium on Biotechnology for Fuels and Chemicals, Gatlinburg, TN (May 1994)
109. "Reductive Dechlorination of Tetrachloroethylene Catalyzed by Cyanocobalamin", 16th Symposium on Biotechnology for Fuels and Chemicals, Gatlinburg, TN (May 1994)
110. "Biotreatment of Produced Water for Removal of Sulfides, Organics and Toxicity", 16th Symposium on Biotechnology for Fuels and Chemicals, Gatlinburg, TN (May 1994)
111. "Biotreatment of Refinery Spent Sulfidic Caustic", 16th Symposium on Biotechnology for Fuels and Chemicals, Gatlinburg, TN (May 1994)
112. "Oxidation of Hydrogen Sulfide by an Enrichment from Sour Water Coproduced with Petroleum", 16th Symposium on Biotechnology for Fuels and Chemicals, Gatlinburg, TN (May 1994)
113. "Reductive Dechlorination of Tetrachloroethylene Catalyzed by Cyanocobalamin", Meeting of the Advisory Board for the EPA Western Hazardous Substance Research Center, Stanford University (July 1994)

114. "Field Test of a Microbial Process for Control of Sulfides in Sour Produced Water," National Institute for Petroleum and Energy Research (by invitation), Bartlesville, OK (August 1994)
115. Session chair, "Biological Treatment of Waste Gases", AIChE Summer National Meeting, Denver, CO (August 1994)
116. "Reduction of Nitric Oxide by Thiols", with W. T. Potter (speaker), AIChE Summer National Meeting, Denver, CO (August 1994)
117. "Microbial Oxidation of Hydrogen Sulfide in a Pilot-scale Bubble Column", AIChE Summer National Meeting, Denver, CO (August 1994)
118. "Sour Water Treatment: How We Did It in Wyoming", Microbial Enhanced Oil Recovery (MEOR) Workshop, U. S. DOE and Illinois State Geological Survey, Grayville, IL (February 1995)
119. "The South-central Environmental Resource Alliance", The 5th Annual WERC Technology Development Conference, Las Cruces, NM (April 1995)
120. "Microbial Treatment of Sour Produced Water", The 5th Annual WERC Technology Development Conference, Las Cruces, NM (April 1995)
121. "Assessment of Natural Hydrocarbon Bioremediation at Two Gas Condensate Production Sites", Third International Symposium on In-Situ and On-Site Bioreclamation, San Diego, CA (April 1995)
122. Moderator, Public Discussion of U.S. Air Force Plant 3: Restoration Advisory Board Workshop, Tulsa, OK (April 1995)
123. Session Chair, "Environmental Biotechnology", 17th Symposium on Biotechnology for Fuels and Chemicals, Vail, CO (May 1995)
124. "Mechanisms of Intrinsic Bioremediation of Gas Condensate Hydrocarbons in Saturated Soils", 17th Symposium on Biotechnology for Fuels and Chemicals, Vail, CO (May 1995)
125. "A Novel Reactor System for the Study of Bioremediation of BTEX Hydrocarbons Under Microaerophilic Conditions", 17th Symposium on Biotechnology for Fuels and Chemicals, Vail, CO (May 1995)
126. "Mechanisms of Intrinsic Bioremediation of Gas Condensate Hydrocarbons under Hydrocarbon Limiting Conditions", 17th Symposium on Biotechnology for Fuels and Chemicals, Vail, CO (May 1995)
127. "Natural Attenuation of Gas Condensate Hydrocarbons in Soil and Groundwater", 17th Symposium on Biotechnology for Fuels and Chemicals, Vail, CO (May 1995)
128. "Microbial Control of Hydrogen Sulfide Production in a Porous Medium", 17th Symposium on Biotechnology for Fuels and Chemicals, Vail, CO (May 1995)
129. "Biotreatment of Spent Sulfidic Caustic by Specialized Cultures and Acclimated Activated Sludge", 17th Symposium on Biotechnology for Fuels and Chemicals, Vail, CO (May 1995)
130. "An Economic Analysis of Microbial Reduction of Sulfur Dioxide with Anaerobically Digested Sewage Sludge Biosolids as Electron Donor", 17th Symposium on Biotechnology for Fuels and Chemicals, Vail, CO (May 1995)
131. "Immobilization of a Sulfide-oxidizing Bacterium in a Novel Adsorbent Biocatalyst Support", 17th Symposium on Biotechnology for Fuels and Chemicals, Vail, CO (May 1995)

132. "The South-central Environmental Resource Alliance (SERA)", Annual Conference of the American Society for Engineering Education, Anaheim, CA (June 1995)
133. "Microbial Oxidation of Hydrogen Sulfide", AIChE Summer National Meeting, Boston, MA (July 30 - August 2, 1995)
134. Conference Co-Chair, "Fifth International Conference on Microbial Enhanced Oil Recovery and Related Biotechnology for Solving Environmental Problems", Dallas, TX (Sept. 1995)
135. "A Field Demonstration of the Microbial Treatment of Sour Produced Water", Fifth International Conference on Microbial Enhanced Oil Recovery and Related Biotechnology for Solving Environmental Problems, Plano, TX (Sept. 1995)
136. "A Case Study of Intrinsic Bioremediation of Petroleum Hydrocarbons", Fifth International Conference on Microbial Enhanced Oil Recovery and Related Biotechnology for Solving Environmental Problems, Plano, TX (Sept. 1995)
137. "Microbial Control of Hydrogen Sulfide Production", Fifth International Conference on Microbial Enhanced Oil Recovery and Related Biotechnology for Solving Environmental Problems, Plano, TX (Sept. 1995)
138. Conference Chair, "Second Annual International Petroleum Environmental Conference", New Orleans, LA (Sept. 1995)
139. "Long-term Effects of Crude Oil Contamination and Bioremediation in a Soil Ecosystem" (Kathleen Duncan, Speaker), The Second International Petroleum Environmental Conference, Environmental Issues and Solutions in Exploration, Production and Refining, New Orleans, LA (Sept. 1995)
140. "Microbial Control of Biogenic Sulfide Production", The Second International Petroleum Environmental Conference, Environmental Issues and Solutions in Exploration, Production and Refining, New Orleans, LA (Sept. 1995)
141. "Biotreatment of Refinery Spent Sulfidic Caustic", The Second International Petroleum Environmental Conference, Environmental Issues and Solutions in Exploration, Production and Refining, New Orleans, LA (Sept. 1995)
142. "Long-term Effects of Bioremediation of Crude Oil on Plant Diversity and Biomass Concentration in a Soil Ecosystem", The Second International Petroleum Environmental Conference, Environmental Issues and Solutions in Exploration, Production and Refining, New Orleans, LA (Sept. 1995)
143. "Long-term Effects of Bioremediation of Crude Oil on Nitrogen Cycling and Sulfate-reducing Bacterial Populations in a Soil Ecosystem", The Second International Petroleum Environmental Conference, Environmental Issues and Solutions in Exploration, Production and Refining, New Orleans, LA (Sept. 1995)
144. "Long-term Effects of Bioremediation of Crude Oil on Fungal and Bacterial Populations in a Soil Ecosystem", The Second International Petroleum Environmental Conference, Environmental Issues and Solutions in Exploration, Production and Refining, New Orleans, LA (Sept. 1995)
145. "Characterization of a Highly Eroded, Brine Impacted Site in the Tallgrass Prairie Preserve", The Second International Petroleum Environmental Conference, Environmental Issues and Solutions in Exploration, Production and Refining, New Orleans, LA (Sept. 1995)

146. "Natural Attenuation of Hydrocarbons in Soil and Groundwater Contaminated with Gas Condensate", The Second International Petroleum Environmental Conference, Environmental Issues and Solutions in Exploration, Production and Refining, New Orleans, LA (Sept. 1995)
147. "Biotreatment of Spent Sulfidic Caustic by Specialized Cultures and Acclimated Activated Sludge", The Second International Petroleum Environmental Conference, Environmental Issues and Solutions in Exploration, Production and Refining, New Orleans, LA (Sept. 1995)
148. "Immobilization of a Sulfide-oxidizing Bacterium in a Novel Adsorbent Biocatalyst Support", The Second International Petroleum Environmental Conference, Environmental Issues and Solutions in Exploration, Production and Refining, New Orleans, LA (Sept. 1995)
149. "A Field Demonstration of Microbial Oxidation of Sulfides in Water Co-produced with Petroleum with Toxicity Reduction and Reuse", Second International Symposium on Wastewater Reclamation and Reuse, Iraklio, Greece (Oct. 1995)
150. "Intrinsic Bioremediation at Two Gas Production Sites in the Denver Basin, CO: Two Years of Groundwater and Soil Monitoring", Rocky Mountain Symposium on Environmental Issues in Oil and Gas Operations, Golden, CO (Oct. 1995)
151. "Intrinsic Bioremediation of Gas Condensate Hydrocarbons - Field and Laboratory Investigations", American Institute of Chemical Engineers 1995 Annual Meeting, Miami, FL (Nov. 1995)
152. "Assessment of Brine Contamination of Surface Waters and Soil Using Ion-Selective Electrodes", HSRC/WERC Joint Conference on the Environment, Albuquerque, NM (May 1996)
153. "Correlation of Surface Water Quality and Oil Production in the Tallgrass Prairie Preserve", HSRC/WERC Joint Conference on the Environment, Albuquerque, NM (May 1996)
154. "Long-term Effects of the Application of Fertilizer to Soil Contaminated with Crude Oil", 18th Symposium on Biotechnology for Fuels and Chemicals, Gatlinburg, TN (May 1996)
155. "A Cost Analysis of the Biotreatment of Refinery Spent Sulfidic Caustic", 18th Symposium on Biotechnology for Fuels and Chemicals, Gatlinburg, TN (May 1996)
156. "Intrinsic Bioremediation of BTEX Hydrocarbons in Soil and Groundwater Contaminated with Gas Condensate", 18th Symposium on Biotechnology for Fuels and Chemicals, Gatlinburg, TN (May 1996)
157. "Porphyrin-catalyzed Oxidation of Trichlorophenol", 18th Symposium on Biotechnology for Fuels and Chemicals, Gatlinburg, TN (May 1996)
158. "Intrinsic Bioremediation of Gas Condensate Hydrocarbons: Results of Over Two Years of Groundwater, Soil Gas and Soil Core Analysis", 18th Symposium on Biotechnology for Fuels and Chemicals, Gatlinburg, TN (May 1996)
159. Conference Chair, "Third Annual International Petroleum Environmental Conference", Albuquerque, NM (Sept. 1996)
160. "Understanding the Mechanisms of the Natural Attenuation of Gas Condensate Hydrocarbons: Results of Over Two Years of Field Observations" with R. Kolhatkar, K. Raterman, G. Trent and J. B. Fisher, Third International Petroleum Environmental Conference, Albuquerque, NM (Sept. 1996)
161. "Nitric Oxide and Hydrocarbon Emissions During Remediation of Petroleum Contaminated Soils" with G. Subramaniam, R. Narasimhan, W.T. Potter, K. Duncan, R. Ingraham, V. Le, O.

Nguyen, A. Kolhatkar, K. Durham and T.J. McDaniels, Third International Petroleum Environmental Conference, Albuquerque, NM (Sept. 1996)

162. "Soil Remediation and Nitric Oxide Release" with G. Subramaniam, R. Narasimhan, W.T. Potter, A. Kolhatkar, K. Durham, M. Shoulders, R. Ingraham, V. Le, O. Nguyen, T.J. McDaniels and K. Duncan, Third International Petroleum Environmental Conference, Albuquerque, NM (Sept. 1996)
163. "Long-term Effects of Crude Oil Contamination and Bioremediation: A Study of Soil Toxicity, Plant Diversity and Nematode Communities" with K. Duncan, P. Buck, H. Wells, E. Jennings, S. Hettenbach, K. Lawlor, T. Todd and J. B. Fisher, Third International Petroleum Environmental Conference, Albuquerque, NM (Sept. 1996)
164. "Nitrogen Cycling in Oil-impacted Soils" with K. Duncan, S. Hettenbach, E. Jennings, K. Burnette, G. Subramaniam, R. Narasimhan, W.T. Potter, A. Kolhatkar, K. Durham, R. Ingraham, V. Le, O. Nguyen and M. Shoulders, Third International Petroleum Environmental Conference, Albuquerque, NM (Sept. 1996)
165. "Assessment of Brine Contamination of Surface Waters and Soil Using Ion-selective Electrodes" with R. Yates and T. Harris, Third International Petroleum Environmental Conference, Albuquerque, NM (Sept. 1996)
166. "The Effect of Brine on the Microbial Degradation of Hydrocarbons" with K. Sullivent, B. Tapp, K. Duncan and Robert Hamilton, Third International Petroleum Environmental Conference, Albuquerque, NM (Sept. 1996)
167. "Long-term Effects of Crude Oil Contamination and Bioremediation in a Soil Ecosystem: Effects on Soil Chemistry, Bacteria, and Fungi" with K. Duncan, E. Levetin, H. Wells, E. Jennings, S. Hettenbach, S. Bailey, K. Lawlor and J. B. Fisher, Third International Petroleum Environmental Conference, Albuquerque, NM (Sept. 1996)
168. "Biotreatment of Refinery Spent Sulfidic Caustic" with A. Kolhatkar, B. Rajganesh, A. Plato, R. Yates, Carl Camp and Tom Bair, Third International Petroleum Environmental Conference, Albuquerque, NM (Sept. 1996)
169. "Microbial Characterization of Soil and Groundwater Impacted by Gas Condensate" with R.V. Kolhatkar and K. Duncan, Third International Petroleum Environmental Conference, Albuquerque, NM (Sept. 1996)
170. "A Field Demonstration of the Microbial Treatment of Sour Produced Water" with D. Morse, K. Raterman and P.T. Selvaraj, Third International Petroleum Environmental Conference, Albuquerque, NM (Sept. 1996)
171. "Microbial Oxidation of Hydrogen Sulfide", Spring National Meeting of the American Chemical Society, Houston, TX (March 1997)
172. "Risk-based Corrective Action at Petroleum Release Sites - A Case Study in Ft. Lupton, CO", R.N. Maddox Distinguished Lecture, University of Arkansas, Fayetteville, AR (April 1997)
173. "Natural Attenuation of Petroleum Hydrocarbons at a Gas Production Site", WERC/HSRC Joint Conference on the Environment, Albuquerque, NM (April 1997)
174. "Effects of Crude Oil Contamination and Bioremediation in a Soil Ecosystem", 4th International Symposium on In-Situ and On-Site Bioremediation, New Orleans, LA (April 1997)
175. "Intrinsic Bioremediation of Gas Condensate Hydrocarbons", 4th International Symposium on In-Situ and On-Site Bioremediation, New Orleans, LA (April 1997)

176. "Microbial Oxidation of Mixtures of Methylmercaptan and Hydrogen Sulfide", 19th Symposium on Biotechnology for Fuels and Chemicals, Colorado Springs, CO (May 1997)
177. Conference Chair, 4th International Petroleum Environmental Conference, San Antonio, TX (Sept. 1997)
178. "Nitrogen Cycling in Oil-Impacted Soils", with Kathleen Duncan, Eleanor Jennings, Kelly Burnette, Susan Hettenbach, Ganesh Subramanian, Ramesh Narasimhan, William Potter, and Charles McComas, 4th International Petroleum Environmental Conference, San Antonio, TX (Sept. 1997)
179. "The Effect of Brine Contamination on Species Diversity of Aquatic Invertebrates in the Tallgrass Prairie Preserve", with Lorrie Houston, Rick Yates, and T.J. McDaniels, 4th International Petroleum Environmental Conference, San Antonio, TX (Sept. 1997)
180. "The Long-Term Effects of Crude Oil Contamination and Bioremediation: A Study of Soil Toxicity, Plant Diversity, and Nematode Communities", with Eleanor Jennings, K.E. Duncan, P. Buck, K. Lawlor, T. Todd and J.B. Fisher, 4th International Petroleum Environmental Conference, San Antonio, TX (Sept. 1997)
181. "Microbial Enumerations at a Gas-condensate Contaminated Site", with Ravindra Kolhatkar, Lisa Gieg, Mostafa El-Shahed, Ralph Tanner, Michael McInerney, and Joseph Suflita, 4th International Petroleum Environmental Conference, San Antonio, TX (Sept. 1997)
182. "The Effect of Brine on the Microbial Degradation of Hydrocarbons: A Case Study in the Tallgrass Prairie Preserve, Oklahoma", with Kimberly D. Sullivent, and Bryan Tapp, 4th International Petroleum Environmental Conference, San Antonio, TX (Sept. 1997)
183. "Evidence for Intrinsic Bioremediation of a Gas Condensate-contaminated Site near Ft. Lupton, CO", with L. Gieg, S. Harris, J.M. Suflita, M. El-Shahed, M. McInerney, R. Tanner, and R. Kolhatkar, 4th International Petroleum Environmental Conference, San Antonio, TX (Sept. 1997)
184. "Nitric Oxide Production and Uptake in Soils", with G. Subramaniam, R. Narasimhan, Kathleen Duncan, and W.T. Potter, 4th International Petroleum Environmental Conference, San Antonio, TX (Sept. 1997)
185. "Toxicity and Botanical Effects of Crude Oil Contamination: Three Years Post-Bioremediation", with Eleanor M. Jennings, Kathleen Duncan, Estelle Levetin, Paul Buck, Kevin Lawlor, and J. Berton Fisher, 4th International Petroleum Environmental Conference, San Antonio, TX (Sept. 1997)
186. "The Role of Aerial Photography in the Characterization of Brine-Impacted Sites", with Rick Yates, Bryan Tapp, and Tom Harris, 4th International Petroleum Environmental Conference, San Antonio, TX (Sept. 1997)
187. "Impacts of Brine Spills in the Tallgrass Prairie Preserve", with Rick Yates, Lorrie Houston, Bryan Tapp, and Tom Harris, 4th International Petroleum Environmental Conference, San Antonio, TX (Sept. 1997)
188. "The University of Tulsa in the Tallgrass Prairie Preserve" (by invitation), Bartlesville Chapter of the Society of Petroleum Engineers, Bartlesville, OK (Sept. 1997)
189. Symposium Chair, "Symposium on Science in the Tallgrass," 53rd Southwest Regional Meeting of the American Chemical Society, Tulsa, OK (Oct. 1997)

190. Symposium Co-Chair, "Symposium on Water Quality and Animal Waste in Northeastern Oklahoma", 53rd Southwest Regional Meeting of the American Chemical Society, Tulsa, OK (Oct. 1997)
191. "Intrinsic Bioremediation of Gas Condensate Hydrocarbons" (by invitation), New York Academy of Sciences, New York, NY (Oct. 1997)
192. "Microbial Dynamics in Oil-Impacted Prairie Soil", with Kathleen Duncan, Eleanor Jennings, Susan Hettenbach, Robert Ingraham, Vu Song Huy Le, Oanh Nguyen, William Potter, Ganesh Subramaniam, Ramesh Narasimhan, Kelly Burnette, and Karen Durham, Symposium on Science in the Tallgrass, 53rd Southwest Regional Meeting of the American Chemical Society, Tulsa, OK (Oct. 1997)
193. "Nitric Oxide Emissions in Oil-Impacted Soils", with William Potter, Robert Ingraham, Vu Song Huy Le, Oanh Nguyen, Kathleen Duncan, Eleanor Jennings, Susan Hettenbach, Ganesh Subramaniam, Ramesh Narasimhan, Karen Durham, and Kelly Burnette, Symposium on Science in the Tallgrass, 53rd Southwest Regional Meeting of the American Chemical Society, Tulsa, OK (Oct. 1997)
194. "The Impact of Historic Brine Spills in the Tallgrass Prairie Preserve", with Rick Yates, T.J. McDaniels, Ravi Kolhatkar, Bryan Tapp, and Thomas M. Harris, Symposium on Science in the Tallgrass, 53rd Southwest Regional Meeting of the American Chemical Society, Tulsa, OK (Oct. 1997)
195. "The Role of Aerial Photography in the Characterization of Brine-Impacted Sites in the Tallgrass Prairie Preserve", with Rick Yates, Ravi Kolhatkar, Bryan Tapp, and Thomas M. Harris, Symposium on Science in the Tallgrass, 53rd Southwest Regional Meeting of the American Chemical Society, Tulsa, OK (Oct. 1997)
196. "Long-Term Effects of Crude Oil Contamination and Bioremediation in a Prairie Soil Ecosystem", with Kelly Burnette, Ravi Kolhatkar, Kathleen Duncan, Joleen Keller, Estelle Levetin, William Potter, Tim Todd, and Ann Cross, Symposium on Science in the Tallgrass, 53rd Southwest Regional Meeting of the American Chemical Society, Tulsa, OK (Oct. 1997)
197. "Impact of a Recent Brine Spill on Soil and Pond Ecosystems in the Tallgrass Prairie Preserve", with Rick Yates, T.J. McDaniels, Ravi Kolhatkar, Thomas M. Harris, Emily Stanley, and Roman Lanno, Symposium on Science in the Tallgrass, 53rd Southwest Regional Meeting of the American Chemical Society, Tulsa, OK (Oct. 1997)
198. "Biodegradation of Crude Oil Components in a Closed Brine Pit", with Kimberly Sullivent, Bryan Tapp, and Kathleen Duncan, Symposium on Science in the Tallgrass, 53rd Southwest Regional Meeting of the American Chemical Society, Tulsa, OK (Oct. 1997)
199. "Intrinsic Bioremediation of Gas Condensate Hydrocarbons: A Field Study", with R. Kolhatkar, G. Trent, J.B. Fisher, K. Raterman, M. Javamardian, L. Gieg, J.M. Suflita, M. El-Shahed, M. McInerney, and R. Tanner, 1997 Annual Meeting of the American Institute of Chemical Engineers, Los Angeles, CA (Nov. 1997)
200. "The Tallgrass Prairie as an Environmental Engineering Field Laboratory", Tulsa Engineer's Society, Tulsa, OK (Jan. 1998)
201. "Study of Intrinsic Bioremediation at a Gas Condensate Contaminated Site", with R. Kolhatkar, L. Gieg, S. Harris, J. Suflita, M. El-Shahed, M. McInerney, R. Tanner, K. Raterman, and G. Trent, WERC-WRHSRC-NMHWMS Joint Conference on the Environment, Albuquerque, NM (Apr. 1998)
202. "The Tallgrass Prairie as an Environmental Engineering Field Laboratory", 33rd Midwest Section Conference of the American Society of Engineering Education, Salina, KS (Apr. 1998)

203. "Long-term Impact of Crude Oil Contamination and Bioremediation in a Prairie Soil Ecosystem", Assessing Ecological Impacts at Upstream Petroleum Sites, U.S. Dept. of Energy Workshop, Bartlesville, OK (May 1998)
204. "Microbial Dynamics of Oil-Impacted Prairie Soil", with K. Duncan, R. Kolhatkar, G. Subramaniam, R. Narasimhan, E. Jennings, S. Hettenbach, C. McComas, and W.T. Potter, 20th Symposium on Biotechnology for Fuels and Chemicals, Gatlinburg, TN (May 1998)
205. "Effects of Remediation on Soil Microfungi Following a Brine Spill", with E. Levetin, M. Sommer, C. Rogers, K. Duncan, T.M. Harris, R. Yates, and R. Kolhatkar, 20th Symposium on Biotechnology for Fuels and Chemicals, Gatlinburg, TN (May 1998)
206. "Practical Aspects of Applications of Microbial Oxidation of Sulfides for Waste Treatment", with R. Kolhatkar, W.T. Potter, and K. Duncan, 20th Symposium on Biotechnology for Fuels and Chemicals, Gatlinburg, TN (May 1998)
207. "Intrinsic Bioremediation of Gas Condensate Hydrocarbons: A Multidisciplinary Study", with R. Kolhatkar, L. Gieg, J.M. Suflita, M. McInerney, R. Tanner, K.T. Raterman and G. Trent, 8th International Symposium on Microbial Ecology, Halifax, Nova Scotia (Aug. 1998)
208. "Remediation of Brine-impacted Soil with a Leachate Collection System", with Tom Harris, Kim Sullivent, Rick Yates, Jason McConnell and Bryan Tapp, American Chemical Society Pentasectional Meeting, Ponca City, OK (August 1998)
209. Conference Chair, 5th International Petroleum Environmental Conference, Albuquerque, NM (October 1998)
210. "Characterization of Microbial Communities in Hydrocarbon Contaminated Soil Using Molecular Methods", with R. Kolhatkar, Lorrie Houston, and Kathleen Duncan, 5th International Petroleum Environmental Conference, Albuquerque, NM (October 1998)
211. "Oxidation of Inorganic Sulfides by a Mixed Culture Enriched from Sour Produced Water", with C. McComas, R. Kolhatkar, Greg Bala, and Gary Jenneman, 5th International Petroleum Environmental Conference, Albuquerque, NM (October 1998)
212. "Biotreatment of Refinery Spent Caustic Using an Enrichment Culture Immobilized in a Novel Support Matrix", with R. Beitle, J.A. Conner, and R. Kolhatkar, 5th International Petroleum Environmental Conference, Albuquerque, NM (October 1998)
213. "Microbial Dynamics of Oil-Impacted Prairie Soil", with K. Duncan, W.T. Potter, E. Jennings, C. McComas, A. Brown, R. Kolhatkar, G. Subramanian, R. Narasimhan, and S. Hettenbach, 5th International Petroleum Environmental Conference, Albuquerque, NM (October 1998)
214. "Remediation of Brine-Impacted Soil with a Leachate Collection System", with T. Harris, K. Sullivent, and B. Tapp, 5th International Petroleum Environmental Conference, Albuquerque, NM (October 1998)
215. "Hydrogen Sulfide Formation in a Fresh Water Aquifer Contaminated with Light Hydrocarbons", with R. Kolhatkar, R. Waclawczyk, and Hughbert Collier, 5th International Petroleum Environmental Conference, Albuquerque, NM (October 1998)
216. "Aspects of Bioreactor and Process Design for Applications of Microbial Oxidation of Sulfides", with R. Kolhatkar, W.T. Potter and K. Duncan, 5th International Petroleum Environmental Conference, Albuquerque, NM (October 1998)
217. "Bioreactor Design for Microbial Oxidation of Sulfides", University of Oklahoma, Dept. of Chemical Engineering, by invitation (November 1998)

218. "Issues and Solutions in Petroleum Environmental Engineering", 5-day short course sponsored by the Office of the Minister of Energy, Lima, Peru (December 1998)
219. "The Role of the Vadose Zone in Natural Attenuation of Gas Condensate Hydrocarbons in a Contaminated Shallow Aquifer", with Ravi Kolhatkar, WERC Conference on the Environment, Albuquerque, NM (April 1999)
220. "Biotreatment of Refinery Spent Sulfidic Caustic Using an Enrichment Culture Immobilized in a Novel Support System", with Robert Beitle, Julie Conner, Ravi Kolhatkar, and Kathleen Duncan, WERC Conference on the Environment, Albuquerque, NM (April 1999)
221. "Application of Molecular Techniques to the Analysis of Microbial Communities in Hydrocarbon-contaminated Soils, Sediments, and Groundwater", American Society of Microbiology Workshop on Molecular Approaches to Environmental Microbiology, Chicago, IL (May 1999)
222. Conference Chair, 6th International Petroleum Environmental Conference, Houston, TX (November 1999)
223. "Characterization of a Soil Ecosystem Impacted by Crude Oil and Brine in 1992", with Kathleen Duncan, Daniel Sublette, Melanie carlson, Branden Thurmond, Houston Ryan, Erik Maloney, Charles McComas, Jason Brown, Cherie Nebel, Christina Dawan, T. M. Harris, Anne Cross, Tim Todd, 6th International Petroleum Environmental Conference, Houston, TX (November 1999)
224. "Native Revegetation and Nitrogen Cycling in an Aged Crude Oil Impacted Site", with Kathleen Duncan, Bernadette Miller, Patricia Rider, Midge Carey, Anita Stepp, T.M. Harris, Bryan Tapp, Adam Ryburn, Chris Sellers, and Anne Cross, 6th International Petroleum Environmental Conference, Houston, TX (November 1999)
225. "An Analysis of the Oklahoma Corporation Commission Database of Citizen Complaints", with J. Berton Fisher, Rich Talley and Mike Schmidt, 6th International Petroleum Environmental Conference, Houston, TX (November 1999)
226. "The Role of the Vadose Zone in the Natural Attenuation of Gas Condensate Hydrocarbons in a Shallow Groundwater" with Gary Trent, Ravi Kolhatkar, Kathleen Duncan, and Greg Thoma, 6th International Petroleum Environmental Conference, Houston, TX (November 1999)
227. "Remediation of Brine-Impacted Soil with Subsurface Drainage", with T.M. Harris, Christina Dawan, Andrea High, and Bryan Tapp, 6th International Petroleum Environmental Conference, Houston, TX (November 1999)
228. "Bioreactor Design for the Treatment of Sour Gas Using Novel Sulfide-Oxidizing Bacteria Enriched from Sour Water, with Charles McComas, Greg Bala, and Gary Jenneman, 6th International Petroleum Environmental Conference, Houston, TX (November 1999)
229. "Microbial Analysis of an Enrichment Culture Oxidizing Inorganic Sulfides and Mercaptans", with Kathleen Duncan, Patricia Rider, and Anita Stepp, 6th International Petroleum Environmental Conference, Houston, TX (November 1999)
230. "Characterization of a Novel Sulfide-Oxidizing Bacteria for Use in the Desulfurization of Produced Water and Gas", with Gary Jenneman, Greg Bala, S. Fox, and D. Gevertz, 6th International Petroleum Environmental Conference, Houston, TX (November 1999)
231. "Multicomponent Partitioning of Gas Condensate Hydrocarbons in the Vadose Zone", with Greg Thoma, J.D. Yucker, and C. Schultz, 6th International Petroleum Environmental Conference, Houston, TX (November 1999)
232. "Bio-Sep: an Advanced Biocatalyst Support System", Poster Presented at the 22nd Symposium on

Biotechnology for Fuels and Chemicals, Gatlinburg, TN (May 2000)

233. "Bio-Sep: An Advanced Biocatalyst Support System for Groundwater and Wastewater Treatment", with S. Harmon and C. Camp, Paper presented at Hazardous Waste Research 2000 Conference, Denver, CO (May 2000)
234. "The Integrated Petroleum Environmental Consortium-the Beginning and the Future", Paper presented at Hazardous Waste Research 2000 Conference, Denver, CO (May 2000)
235. "Remediation of Oilfield Brine-Impacted Soil with Subsurface Drainage," with T.M. Harris, C. Dewan, K. Sullivent, R. Yates, and J.B. Tapp, Paper presented at Hazardous Waste Research 2000 Conference, Denver, CO (May 2000)
236. "The Role of the Vadose Zone in the Natural Attenuation of Gas Condensate Hydrocarbons", with S. Harmon, R. Yates, G. Trent, R. Kolhatkar, G. Thoma, and K. Duncan, Paper presented at Hazardous Waste Research 2000 Conference, Denver, CO (May 2000)
237. "Use of Molecular Techniques to Investigate Microbial Populations in Soil Impacted by Hydrocarbons and Brine", with L. Houston, S. Harmon, K. Duncan, and R. Kolhatkar, Paper presented at Hazardous Waste Research 2000 Conference, Denver, CO (May 2000)
238. "The Role of the Vadose Zone in the Natural Attenuation of Gas Condensate Hydrocarbons in a Shallow Aquifer", with R. Yates, R. Kolhatkar, G. Trent, G. Thoma, L. Gieg, Suflita, and J. Harju, Paper Presented at The Fifth SPE International Conference on Health Safety and Environment in Oil and Gas Exploration and Production, Stavanger, Norway (June 2000)
239. "The Role of the Vadose Zone in the Natural Attenuation of Gas Condensate Hydrocarbons", with S. Harmon, R. Kolhatkar, G. Thoma, and K Duncan, Paper presented at the 5th International Symposium on Environmental Biotechnology, Kyoto, Japan (July 2000)
240. Conference Chair, 7th International Petroleum Environmental Conference, Albuquerque, NM (November 2000)
241. "Bioremediation of a Crude Oil Spill in the Tallgrass Prairie Preserve", with Teddy Adkins, Allison Brown, Amy Figueroa, Kelly Kastel, Sarah Kennedy, Lauren Lester, Michelle McCall, Amber Meadors, Sara Potts, Jeremy Sargent, Cynthia Smith, Jennifer Sudduth, Sari Wakefield, Shelly Weaver, Meredith Webber, Josh Whetsell, and Sloan Yates, Poster Presented at the 7th International Petroleum Environmental Conference, Albuquerque, NM (November 2000)
242. "Bio-Sep[®]: A Novel Immobilization Matrix for Biotreatment of Contaminated Groundwater and Waste Water", with Bill Redmond, Derrick Oneal, and Carl Camp, Paper Presented at the 7th International Petroleum Environmental Conference, Albuquerque, NM (November 2000)
243. "Characterization of the Vadose Zone Above a Shallow Aquifer Contaminated with Gas Condensate", with R.G. Yates, R. Kolhatkar, G. Thoma, and K. Duncan, Paper Presented at the 7th International Petroleum Environmental Conference, Albuquerque, NM (November 2000)
244. "Correlation of Plant Surveys and Soil Chemistry at a Brine Discharge Site in the Tallgrass Prairie Preserve", with Kimberly Carter, Thomas M. Harris, and Bryan Tapp, Poster Presented at the 7th International Petroleum Environmental Conference, Albuquerque, NM (November 2000)
245. "Determining Biomass Loading in Bio-Sep[®] Beads", with Derrick Oneal, Poster Presented at the 7th International Petroleum Environmental Conference, Albuquerque, NM (November 2000)
246. "Immobilization of a Novel Sulfide-Oxidizing Bacterium for the Removal of Hydrogen Sulfide from Natural Gas", with Steve Harmon, Gary Jenneman, and Greg Bala, Paper Presented at the 7th International Petroleum Environmental Conference, Albuquerque, NM (November 2000)

247. "Long-term Impact of Oil and Brine Spills on Soil Ecosystems in the Tallgrass Prairie Preserve", with Thomas M. Harris, Paul Buck, Kathleen Duncan, and Tim Todd, Paper Presented at the 7th International Petroleum Environmental Conference, Albuquerque, NM (November 2000)
248. "Native Revegetation at a Weathered Crude Oil Impacted Site", with Kathleen Duncan, B. Miller, P. Rider, A. Stepp, and M. Carey, Paper Presented at the 7th International Petroleum Environmental Conference, Albuquerque, NM (November 2000)
249. "Remediation of a Brine and Oil Contaminated Site in the Tallgrass Prairie Preserve Using Interception to Prevent Further Brine Contamination Down Slope", with Cherie N. Almeida, Laura Ford, and Tom Harris, Paper Presented at the 7th International Petroleum Environmental Conference, Albuquerque, NM (November 2000)
250. "Strategies for the Remediation of Oilfield Brine-Impacted Soil", with Tom Harris, D. Perumallapalli, and Bryan Tapp, Paper Presented at the 7th International Petroleum Environmental Conference, Albuquerque, NM (November 2000)
251. "Transport Processes in the Remediation of Brine-Impacted Soil", with Thomas M. Harris, Christina Dewan, and J. Bryan Tapp, Paper Presented at the 7th International Petroleum Environmental Conference, Albuquerque, NM (November 2000)
252. "Treatment of Refinery Wastewater Using Bio-Sep[®] Beads as Suspended Media", with Carl E. Camp, Paper Presented at the 7th International Petroleum Environmental Conference, Albuquerque, NM (November 2000)
253. "Remediation Research in the Tallgrass Prairie Preserve", Luncheon talk for the Engineering Society of Tulsa, Tulsa, OK (March 2001)
254. "Fundamentals of the Bioremediation of Petroleum Contaminated Soils", 2-day workshop, Tulsa, OK (March 2001)
255. "Experiences with Brine Remediation and Surface Water Impacts in the Tallgrass Prairie Preserve", with Thomas Harris, Paper Presented at 2001 Environmental Research Conference and Workshops, Manhattan, KS (May 2001)
256. "Phytoremediation, Bioremediation, and Risk", with Steve McCutcheon and Kathy Banks, Paper Presented at 2001 Environmental Research Conference and Workshops, Manhattan, KS (May 2001)
257. "Long-term Impacts of Oil and Brine Spills on Soil Ecosystems in a Pristine Environment", with Thomas Harris, Kathleen Duncan, Tim Todd, and R. Kolhatkar, Paper presented at the 1st International Congress on Petroleum Contaminated Soils, Sediments, and Water, London, UK (August 2001)
258. "Characterization of the Vadose Zone Above a Shallow Aquifer Contaminated with Gas Condensate Hydrocarbon", with Kathleen Duncan and Greg Thoma, Poster presented at the 1st International Congress on Petroleum Contaminated Soils, Sediments, and Water, London, UK (August 2001)
259. "Fundamentals of the Bioremediation of Petroleum Contaminated Soils", 2-day workshop, Houston, TX (October 2001)
260. Conference Chair, 8th International Petroleum Environmental Conference, Houston, TX (November 2001)
261. "Oil and Brine Spill Remediation Tools for Small Independent Producers", with Judy Sublette and Cherie Almeida, Paper presented at the 8th International Petroleum Environmental Conference, Houston, TX (November 2001)

262. "Mitigating the Effects of a Brine Spill by Harvesting Vegetation", with Daniel Sublette, Cherie Almeida, Thomas Harris, Poster presented at the 8th International Petroleum Environmental Conference, Houston, TX (November 2001)
263. "Ecological Indicators of Soil Ecosystem restoration at a Crude Oil Impacted Site", with Chintan Mehta, Thomas Harris, Laura Ford, K. Duncan, A Cross, and Greg Thoma, Poster presented at the 8th International Petroleum Environmental Conference, Houston, TX (November 2001)
264. "PLFA Analysis for Total biomass in Oilfield Brine-impacted Soil", with Brooke Stephenson, and Thomas Harris, Poster presented at the 8th International Petroleum Environmental Conference, Houston, TX (November 2001)
265. "Revegetation of Crude Oil Contaminated and Uncontaminated Prairie Sites Disturbed by Tilling and Earth Moving", with Chintan Mehta, Thomas Harris, Laura Ford, K. Duncan, A. Cross and Greg Thoma, Poster presented at the 8th International Petroleum Environmental Conference, Houston, TX (November 2001)
266. "Evaluation of and Immobilized *Thiomicrospira* sp. Strain CVO Enrichment for H₂S Oxidation", with Gary Jenneman, S. Harmon, and Greg Bala, Paper presented at the 8th International Petroleum Environmental Conference, Houston, TX (November 2001)
267. "Immobilization of *Thiobacillus denitrificans* in Bio-Sep for Removal and Oxidation of H₂S from a Gas Stream", with W. Redman, Gary Jenneman, and Greg Bala, Paper presented at the 8th International Petroleum Environmental Conference, Houston, TX (November 2001)
268. "The Use of Hay in the Remediation of Oilfield Brine Impacted Soil" with Kim Carter, Brooke Mason, Laura Ford, and Thomas Harris, Paper presented at the 8th International Petroleum Environmental Conference, Houston, TX (November 2001)
269. "A Comparison of Remediation Methods at Three Sites Contaminated with Crude Oil and Brine in the Tallgrass Prairie Preserve, with Cherie Almeida, Thomas Harris, Laura Ford, A. Cross, and Greg Thoma, Paper presented at the 8th International Petroleum Environmental Conference, Houston, TX (November 2001)
270. "The Effect of Brine Contamination on Soil Microbiota", with Thomas Harris, Cherie Almeida, Laura Ford, Estelle Levetin, Kim Carter, and K. Duncan, Paper presented at the 8th International Petroleum Environmental Conference, Houston, TX (November 2001)
271. "Bioremediation of Petroleum Contaminated Soils", Half-day workshop presented at the 8th International Petroleum Environmental Conference, Houston, TX (November 2001)
272. "Soil Remediation for Independent Oil and Gas Producers", one-day workshop for the Marginal Well Commission of Oklahoma, Pawhuska, OK (November 2001)
273. "Soil Remediation for Independent Oil and Gas Producers", one-day workshop for the Marginal Well Commission of Oklahoma, Tulsa, OK (November 2001)
274. "Soil Remediation for Independent Oil and Gas Producers", one-day workshop for the Marginal Well Commission of Oklahoma, Oklahoma City, OK (November 2001)
275. "Soil Remediation for Independent Oil and Gas Producers", one-day workshop for the Marginal Well Commission of Oklahoma, Ardmore, OK (December 2001)
276. "Petroleum Environmental Engineering", 5-day workshop for the Peruvian Ministry of Energy, Lima, Peru (December 2001)
277. "Soil Remediation for Independent Oil and Gas Producers", one-day workshop for the NE

Oklahoma API, Drumright, OK (March 2002)

278. "Soil Remediation for Independent Oil and Gas Producers", one-day workshop for the 73rd Annual Meeting of the Panhandle Producers & Royalty Owners Association, Amarillo, TX (May 2002)
279. "Soil Remediation for Independent Oil and Gas Producers", one-day workshop for the Oklahoma Corporation Commission, Ada, OK (May 2002)
280. "Fundamentals of Bioremediation of Hydrocarbon Contaminated Soils", 2-day workshop, U.S. Environmental Protection Agency Oil Spill Office, Washington, D.C. (May 2002)
281. "Microbial Desulfurization of Natural Gas: Technological Challenges", Keynote address at the Euro Summer School Programme on the Sulfur Cycle in Environmental Biotechnology, Wageningen, The Netherlands (May, 2002)
282. "Rapid Quantitative Detection and Speciation of Contamination in the Urban Watershed and Distribution Systems", with D.C. White, J. S. Gouffon, A. D. Peacock, R. Geyer, G.A. Davis and M. Pryor, Paper presented at the NWRI Research Advisory Board, Orange County, CA (May, 2002)
283. "Soil Remediation for Independent Oil and Gas Producers", one-day workshop for the Arkansas Oil & Gas Commission, Smackover, AR (June 2002)
284. "Soil Remediation: Recovering from Oil & Brine Spills", workshop for the Oklahoma Independent Producers Association 2002 Annual Meeting, Afton, OK (June 2002)
285. "Soil Remediation for Independent Oil and Gas Producers", one-day workshop for the Oklahoma Corporation Commission, Bristow, OK (June 2002)
286. "Long-term Impacts of a Crude Oil Spill on a Pristine Soil Ecosystem", with R. Kolhatkar, K. Pim, A. Kolhatkar, K. Duncan, B. Miller, R. Fogg, P. Rider, A. Stepp, M. Carey, T. Todd and A. Cross, Paper presented at the 25th Arctic and Marine Oilspill Program Technical Seminar, Calgary, Alberta (June 2002)
287. "Characterization of the Vadose Zone Above a Shallow Aquifer Contaminated with Gas Condensate Hydrocarbons", with K. Duncan, G. Thoma, and T. Todd, Paper presented at the 25th Arctic and Marine Oilspill Program Technical Seminar, Calgary, Alberta (June 2002)
288. "Soil Remediation for Independent Oil and Gas Producers", Paper presented at the Osage Producers Association Annual Meeting, Pawhuska, OK (June 2002)
289. "Interfacing with the Energy Industry: Two State Programs", panel for The Energy Council's 2002 State Trends in Energy & the Environment Conference, San Antonio, TX (June 2002)
290. "Soil Remediation for Independent Oil and Gas Producers", one-day workshop for the Oklahoma Corporation Commission, Kingfisher, OK (July 2002)
291. "Rapid Detection of Pathogens and Contaminants by Analysis of Biofilms Generated in Bio-Sep[®] Beads: Implications for Monitoring Watersheds Impacted by Confined-Animal Feeding Operations", with David White, Aaron Peacock, and Greg Davis, Paper presented at the Application of Waste Remediation Technologies to Agricultural Contamination of Water Resources EPA Conference (July 2002)
292. "Rapid Quantitative Detection of Pathogens and Contamination by Analysis of Biofilms Generated on Coupons in Water Resource Management" with Julia S. Gouffon, Roland Geyer, Aaron M. Peacock, Ying- Dong Gan, Yun-Juan Chang, Kimberly Salome, Cory Lytle and David

C. White, Paper presented at the Third International Conference on Water Resources and Environmental Research (ICWRER) Dresden, Germany (July 2002)

293. "Soil Remediation for Independent Oil and Gas Producers", one-day workshop for the Oklahoma Corporation Commission, Duncan, OK (August 2002)
294. "Fundamentals of Bioremediation of Hydrocarbon Contaminated Soils", 2-day workshop, Tulsa, OK (August 2002)
295. "Convenient, Down-Well, *In Situ* Monitoring of Chlorinated Hydrocarbon Remediation with Sterilizable 'Bug Traps' Containing Bio-Sep® Beads", with David White, Aaron Peacock, Julia Gouffon, Roland Geyer, Greg Davis, and Mark Harrison, Paper presented at the 2002 International Symposium on Subsurface Microbiology, Copenhagen, Denmark (September 2002)
296. "Facile Quantitative Detection of Microbial Biofilms Capable of Potential *In Situ* Bioimmobilization of Uranium in Aquifers", with David White, Moustafa Fayek, Aaron Peacock, Julia Gouffon, Susan Pfiffner, and Roland Geyer, Paper presented at the 2002 International Symposium on Subsurface Microbiology, Copenhagen, Denmark (September 2002)
297. Conference Chair, 9th International Petroleum Environmental Conference, Albuquerque, NM (October 2002)
298. "Comparison of the Effectiveness of 'Bug-Traps' vs. Conventional Coupons in Evaluating Microbial Biofilm Communities in Oilfield Brine", with Gary Jenneman, Robert Webb, Erin Holle, D.C. White, Aaron Peacock, and Greg Davis, Paper presented at the 9th International Petroleum Environmental Conference, Albuquerque, NM (October 2002)
299. "Soil Ecosystem Recovery following Managed and Unmanaged Bioremediation", with Chintan Mehta, Laura Ford, Josh Brokaw, Kathleen Duncan, Tim Todd, and Greg Thoma, Poster presented at the 9th International Petroleum Environmental Conference, Albuquerque, NM (October 2002)
300. "Bioremediation of Crude Oil in the Presence of Brine", with Aditya Moralwar, Laura Ford, Josh Brokaw, Kathleen Duncan, Tim Todd, and Greg Thoma, Poster presented at the 9th International Petroleum Environmental Conference, Albuquerque, NM (October 2002)
301. "Revegetation of Crude Oil-Contaminated and Uncontaminated Prairie Sites Disturbed by Tilling and Earth Moving", with Chintan Mehta, Laura Ford, Josh Brokaw, Kathleen Duncan, and Greg Thoma, Poster presented at the 9th International Petroleum Environmental Conference, Albuquerque, NM (October 2002)
302. "Remediation of an Eroded Brine Spill in the Tallgrass Prairie Preserve", with ChE 1024 Class: Seian Burnham, Ben Davis, Robert Campbell, Olisa Gravney, Kanika Kohli, Alex Miranda, Sarah Massey, Alexis Norin, Carrie Peterson, Clint Pollard, and Katie Sailors, Poster presented at the 9th International Petroleum Environmental Conference, Albuquerque, NM (October 2002)
303. "Development of Smart Proppant Technology for Hydraulic Fracturing: Polymeric Carrier Systems for Active Agents", with Thomas Mathew, William Redman, and Greg Bala, Poster presented at the 9th International Petroleum Environmental Conference, Albuquerque, NM (October 2002)
304. "In Situ Monitoring of Microbial Communities in Contaminated Groundwater Using Bio-Sep® Bug Traps", with Aaron Peacock, Julia Gouffon, Roland Geyer, D.C. White, and Greg Davis, Paper presented at the 9th International Petroleum Environmental Conference, Albuquerque, NM (October 2002)

305. "Remediation of Brine-Impacted Soil with Hay", with Laura Ford, Kim Carter, Brooke Mason, and Greg Bala, Paper presented at the 9th International Petroleum Environmental Conference, Albuquerque, NM (October 2002)
306. "Empowering Small Independent Oil & Gas Producers to Solve Environmental Problems", Paper presented at the 9th International Petroleum Environmental Conference, Albuquerque, NM (October 2002)
307. "Bioremediation of Crude Oil in the Presence of Brine", with Aditya Moralwar, Laura Ford, Josh Brokaw, Kathleen Duncan, Tim Todd, and Greg Thoma, Paper presented at the 9th International Petroleum Environmental Conference, Albuquerque, NM (October 2002)
308. "Soil Ecosystem Recovery Following Managed and Unmanaged Bioremediation", with Chintan Mehta, Laura Ford, Josh Brokaw, Kathleen Duncan, Tim Todd, and Greg Thoma, Paper presented at the 9th International Petroleum Environmental Conference, Albuquerque, NM (October 2002)
309. "Fundamentals of Bioremediation of Hydrocarbon Contaminated Soils", 2-day workshop, Houston, TX (November 2002)
310. "Bioremediation of Oil Spills", Mini course presented at the U.S. Environmental Protection Agency's On-Scene Coordinator Readiness Training Program for 2002, Phoenix, AZ (November 2002)
311. "Rapid Quantitative Detection and Speciation of Contamination in the Urban Watershed and Distribution Systems" D. C. White, J.S. Gouffon, A. D. Peacock, R. Geyer, G.A. Davis and M. Pryor, Paper presented at the National Water Research Foundation Scientific Advisory Board. Chicago, IL (November 2002)
312. "Tools and Resources to Enhance Environmental Compliance by Small Independent Oil & Gas Producers, An Interactive Workshop for State and Federal Regulators", presented at the Interstate Oil & Gas Compact Commission's Annual Meeting, Little Rock, AR (December 2002)
313. "Oil and Brine Spill Remediation Tools for Small Independent Producers", Paper presented at the Oklahoma Independent Petroleum Association Environmental Awareness Seminar, Oklahoma City, OK (January 2003)
314. "Soil Remediation for Independent Oil and Gas Producers", one-day IPEC workshop, Tulsa, OK (January 2003)
315. "Bioremediation of Oil Spills", Lunch presentation for the Tulsa section of the Society of Petroleum Engineers, Tulsa, OK (January 2003)
316. "Remediation of Brine Spills", Half-day workshop for the Society of Petroleum Engineers, Tulsa, OK (January 2003)
317. "Bioremediation of Oil Spills", Lunch presentation for the Bartlesville section of the Society of Petroleum Engineers, Bartlesville, OK (February 2003)
318. "Soil Remediation for Independent Oil and Gas Producers", one-day workshop for the Petroleum Technology Transfer Council (PTTC), Casper, WY (February 2003)
319. "Rapid, Comprehensive Lipid Biomarker Analysis for the Subsurface; Community Composition and Nutritional/Physiological Status as Monitors of Remediation and Detoxification Effectiveness", with D.C. White (speaker), Aaron Peacock, R. Geyer, and Y-J. Chang, NABIR Workshop, Oak Ridge, TN (March 2003)

320. "Using Lipid and DNA Biomarkers for Remediation Site Diagnostics", with Aaron Peacock, D.C. White, R. Geyer, Greg Davis, and Mark Harrison, Paper presented at the 13th Annual West Coast Conference on Contaminated Soils, Sediments, and Water, San Diego, CA (March 2003)
321. "New Methods to Monitor Microbial Community Dynamics During *In situ* Biostimulation", with A.D. Peacock, Y-J. Chang, R. Geyer, P.E. Long, J. D. Istok and D. C. White, Poster presented at DOE NABIR Principal Investigators Conference, Arlie House, Warrington, VA (March 2003)
322. "A Novel Approach to Hydrogen Sulfide Removal From Natural Gas", with Brandy Fidler (speaker), Gary Jenneman, and Greg Bala, Paper presented at the SPE/EPA/DOE Exploration and Production Environmental Conference, San Antonio, TX (March 2003)
323. "Soil Remediation for Independent Oil and Gas Producers", one-day workshop for the Illinois Petroleum Resources Board, Grayville, IL (April 2003)
324. "Bioremediation of Hydrocarbons", IPEC Workshop for the Wyandotte Nation, Wyandotte, OK (April, 2003)
325. "*In Situ* Monitoring of the Remediation of Chlorinated Hydrocarbons Using Sterilizable 'Bug Traps'", with Aaron Peacock, Greg Davis, Mark Harrison, Roland Geyer, and David White, Paper presented at the 7th International Symposium on *In Situ* and On-Site Bioremediation, Orlando, FL (June 2003)
326. "Bioremediation of Crude Oil in the Presence of Brine", with Aditya Moralwar, Laura Ford, Josh Brokaw, Kathleen Duncan, Tim Todd, and Greg Thoma, Poster presented at the 7th International Symposium on *In Situ* and On-Site Bioremediation, Orlando, FL (June 2003)
327. "Soil Ecosystem Recovery Following Managed and Unmanaged Bioremediation", with Chintan Mehta, Laura Ford, Josh Brokaw, Kathleen Duncan, Tim Todd, and Greg Thoma, Poster presented at the 7th International Symposium on *In Situ* and On-Site Bioremediation, Orlando, FL (June 2003)
328. "Long-Term Impacts of a Crude Oil Spill on Soil Microbiology and Plant Communities", with Ravi Kolhatkar, Kathleen Duncan, and Tim Todd, Poster presented at the 7th International Symposium on *In Situ* and On-Site Bioremediation, Orlando, FL (June 2003)
329. "Ecological Indicators of the Restoration of Soil Ecosystems Impacted by Oil and Brine Spills", with Chintan Mehta, Aditya Moralwar, Laura Ford, Josh Brokaw, Kathleen Duncan, Tim Todd, and Greg Thoma, Paper presented at the 7th International Symposium on *In Situ* and On-Site Bioremediation, Orlando, FL (June 2003)
330. "Quantification of Microbial Processes Induced via Injection of HRC[®] at a CAH Site", with E.J. Raes, D.C. White, A. Peacock, S.S. Koenigsberg, S.L. Boyle, G.M. White, V.B. Dick, and G. Davis, Paper presented at the 7th International Symposium on *In Situ* and On-Site Bioremediation, Orlando, FL (June 2003)
331. "Bio-Sep[®] Beads Accelerate Biofilm Formation for Remediation Effectiveness Forensic Analysis", with D.C. White, J.S. Gouffon, A.D. Peacock, R. Geyer, G.A. Davis, and M. Pryor, Poster presented at the 7th International Symposium on *In Situ* and On-Site Bioremediation, Orlando, FL (June 2003)
332. "Tools and Resources to Enhance Environmental Compliance by Small Independent Oil & Gas Producers, An Interactive Workshop for State and Federal Regulators", presented at the Interstate Oil & Gas Compact Commission's Appalachian Basin Regulators' Meeting, Franklin, PA (July 2003)

333. "Applications of Rapid Diagnostics for Detecting Biomarkers", with D.C. White, R. Geyer, J. Cantu, A. Peacock, and G. J. Van Berkel, Paper presented at the UT Summit on Agroterrorism and Bioterrorism, UT Health Center, Memphis, TN (July 2003)
334. "Biological Degradation of Solvent Extraction Circuit Plant Organic", with Nelson I. Collao, Gary E. Jenneman, Marshall D. Bishop, Sharon K. Young, and Alison G. Morrison, Paper presented at the 2003 International Symposium on Hydrometallurgy, Vancouver, British Columbia, Canada (August 2003)
335. "The Other and Original Produced Water Issue", with J. Berton Fisher, presented at The Energy Council's Quarterly Meeting, Tulsa, OK (September 2003)
336. "Bioremediation of Petroleum Hydrocarbons", presented at INA, Zagreb, Croatia (September 2003)
337. "*In Situ* Monitoring of Chlorinated Hydrocarbon Remediation Using Baited 'Bug Traps'", with Aaron D. Peacock, Greg A. Davis, Mark C. Harrison, Roland Geyer, and David C. White, Paper presented at the International Conference on Remediation of Contaminated Sediments, Venice, Italy (September/October 2003)
338. "Monitoring Changes in Microbial Ecology During Sulfate Amendment of a BTEX-contaminated Aquifer Using Bio-Sep[®] Traps", with Aaron Peacock, Ravi Kolhatkar, Dennis Beckman, David Cook, David White, Thomas Mathew, Chintan Mehta, and Greg Davis, Paper presented at the 19th Annual International Conference on Soils, Sediments and Water, Amherst, Massachusetts (October 2003)
339. "Drinking Water Biofilms, Continuous Concentrating Biosensor Monitors of Contamination, Pollution, and Bioterrorism", with D.C. White, A.D. Peacock, Y. Chang, G.A. Davis, M. Pryor, J.S. Gouffon, A. Biernacki, and R. Geyer, Paper presented the American Society for Microbiology Conference on Biofilms 2003, Victoria, British Columbia, Canada (November 2003)
340. Conference Chair, 10th International Petroleum Environmental Conference, Houston, TX (November 2003)
341. "Remediation of Brine Spills With Hay, Continued", with Shailendra Singh and Laura Ford, Paper presented at the 10th International Petroleum Environmental Conference, Houston, TX (November 2003)
342. "Bioregenerable Selective Sorbents for Hydrogen Sulfide Removal From Natural Gas", with Brandy R. Fidler, Gary Jenneman, and Greg Bala, Paper presented at the 10th International Petroleum Environmental Conference, Houston, TX (November 2003)
343. "Analysis of Microbial Communities Involved in the Remediation of BTEX in an Anaerobic Aquifer Using 13C-labeled Compounds, Bio-Sep[®] Beads and In-Situ Microcosms", with Roland Geyer, A. Peacock, H.H. Richnow, D.C. White, and M. Kastner, Paper presented at the 10th International Petroleum Environmental Conference, Houston, TX (November 2003)
344. "Microbial Indicators of Soil Ecosystem Restoration Following Bioremediation of Oil and Brine Spills", with Kathleen Duncan, C. Mehta, A. Moralwar, E. Charles, B. Roe, D. Kupfer, and F. Najjar, Paper presented at the 10th International Petroleum Environmental Conference, Houston, TX (November 2003)
345. "Lessons Learned From Small Independent Oil & Gas Producers", Lunch presentation at the 10th International Petroleum Environmental Conference, Houston, TX (November 2003)
346. "The Effect of Fertilizer Use During Bioremediation of Crude Oil Contaminated Soil on Subsequent Restoration of Soil Ecosystems", with Chintan Mehta, Aditya Moralwar, Laura Ford,

Josh Brokaw, Kathleen Duncan, and Greg Thoma, Paper presented at the 10th International Petroleum Environmental Conference, Houston, TX (November 2003)

347. "A New Tool for Characterization of Microbial Activity in Contaminated Soils During Remediation and Restoration", with Aaron Peacock, Greg Davis, and David White, Paper presented at the 10th International Petroleum Environmental Conference, Houston, TX (November 2003)
348. "Comparing the Microbial Ecology of Oil and Brine-Impacted Soils Under Remediation", with Aditya Moralwar, Chintan Mehta, Laura Ford, Josh Brokaw, Kathleen Duncan, Tim Todd, and Greg Thoma, Paper presented at the 10th International Petroleum Environmental Conference, Houston, TX (November 2003)
349. "Nematodes as an Indicator of the Restoration of Soil Ecology Following Oil and Brine Spills", with Chintan Mehta, Aditya Moralwar, Laura Ford, Josh Brokaw, Kathleen Duncan, Tim Todd, and Greg Thoma, Paper presented at the 10th International Petroleum Environmental Conference, Houston, TX (November 2003)
350. "Monitoring the Effectiveness of the Sulfate Amendment of a BTEX-Contaminated Aquifer using Bio-Sep[®] Bug Traps", with Ravi Kolhatkar, Dennis Beckman, David Cook, Thomas Mathew, Aaron Peacock, David White, Greg Davis, Paper presented at the 10th International Petroleum Environmental Conference, Houston, TX (November 2003)
351. "Complicating Factors in the Use of Soil Microbial Ecological Indicators to Assess Soil Ecosystem Recovery", with Chintan Mehta, Aditya Moralwar, Laura Ford, Josh Brokaw, Kathleen Duncan, Tim Todd, and Greg Thoma, Paper presented at the 10th International Petroleum Environmental Conference, Houston, TX (November 2003)
352. "Looking for the Signature of the Intrinsic Bioremediation of BTEX in Subsurface Microbial Ecology Using Bio-Sep[®] Bug Traps", with Majorie Boone, Anita Biernacki, Aaron Peacock, Greg Davis, and Laura Ford, Paper presented at the 10th International Petroleum Environmental Conference, Houston, TX (November 2003)
353. "Looking for the Signature of the Intrinsic Bioremediation of MTBE in Subsurface Microbial Ecology Using Bio-Sep[®] Bug Traps", with Anita Biernacki, Aaron Peacock, Greg Davis, Marjorie Boone, Laura Ford, and Ravi Kolhatkar, Paper presented at the 10th International Petroleum Environmental Conference, Houston, TX (November 2003)
354. "Slow Release Properties of Bio-Sep[®] Beads; Baiting Bug Traps", with Thomas Mathew and William Redman, Paper presented at the 10th International Petroleum Environmental Conference, Houston, TX (November 2003)
355. "Estimating the Aerial Extent of Spilled Fluids on Soil Surface with GIS Based Physical Model", with C.Y Wong, G. Thoma, Laura Ford, and K. Duncan, Paper presented at the 10th International Petroleum Environmental Conference, Houston, TX (November 2003)
356. "Probabilistic Reliability Modeling for E&P Facilities in the Tallgrass Prairie", with L. Zambrano, G. Thoma, Laura Ford, and K. Duncan, Paper presented at the 10th International Petroleum Environmental Conference, Houston, TX (November 2003)
357. "Oil and Saltwater Releases from E&P Operations in Oklahoma, 1993-2003", with J. Berton Fisher and Mike Schmidt, Paper presented at the 10th International Petroleum Environmental Conference, Houston, TX (November 2003)
358. "Evaluation of Remediation Amendments for PCE and TCE Contaminated Aquifers Using In-Situ Microcosms", with Aaron Peacock, David White, Greg Davis, and Mark Harrison, Paper presented at the 10th International Petroleum Environmental Conference, Houston, TX (November 2003)

359. "Revegetation: A Comparison of Treated Contaminated Soil and Displace Soil Following Bioremediation of a Crude Oil Spill in the Tallgrass Prairie Preserve, with Chintan Mehta, Kathleen Duncan, Joshua Brokaw, and Greg Thoma, Paper presented at the 10th International Petroleum Environmental Conference, Houston, TX (November 2003)
360. "Soil Remediation for Independent Oil and Gas Producers", one-day workshop presented for the Petroleum Technology Transfer Council (PTTC), Tyler, TX (January 2004)
361. "Monitoring Changes in Microbial Ecology Using Biomarkers and Bio-Sep® Biofilm Collection Systems: Applications at BP Sites", Paper presented at BP Environmental Technology Group meeting, Naperville, IL (January 2004)
362. "Monitoring Changes in Microbial Ecology Using Biomarkers and Bio-Sep® Biofilm Collection Systems", Paper presented at local section meeting of AIChE, Tulsa, OK (January 2004)
363. "Evaluation of an On-Line Biofilm Detector and Bio-traps for Monitoring MIC in Produced Oilfield Brine", Paper presented at the Corrosion/2004 Symposium, New Orleans, LA (March-April 2004)
364. "A Comparison of *In Situ* Baited Bio-Sep® Bead Traps and *Ex Situ* Microcosms in the Evaluation of Potential Remediation Amendments in a PCE-contaminated Aquifer", Paper presented at the 4th International Conference on Remediation of Chlorinated and Recalcitrant Compounds, Monterey, CA (May 2004)
365. "Biostimulation Field Study of Electron Donor at CAH Site", with Eric J. Raes, David C. White, Aaron Peacock, Frank Loeffler, Stephen S. Koenigsberg, Susan L. Boyle, Glenn M. White, Vincent B. Dick, and Gregory Davis, Paper presented at the 4th International Conference on Remediation of Chlorinated and Recalcitrant Compounds, Monterey, CA (May 2004)
366. "Soil Remediation for Independent Oil and Gas Producers", one-day workshop presented for the Petroleum Technology Transfer Council (PTTC), Hobbs, NM (June 2004)
367. "Biomarkers Predict Consequences of Microbial Metabolic Activities in Environmental Biotechnology", with David C. White, Aaron D. Peacock, Yun-Juan Chang, Sung-Chan Jo, James Cantu, John Biggerstaff, Maria E. Uhle, Greg Davis, and Edward Sobek, Paper presented at the International Society of Environmental Biotechnology's 2004 International Conference, Chicago, IL (June 2004)
368. "Bioremediation of Petroleum Hydrocarbons", Two-day workshop, Tulsa, OK (July 2004)
369. Conference Chair, 11th International Petroleum Environmental Conference, Albuquerque, NM (October 2004)
370. Special Symposium Co-Chair, Natural Attenuation of MTBE, with Ravi Kolhatkar at 11th International Petroleum Environmental Conference, Albuquerque, NM (October 2004)
371. "Fundamentals of Bioremediation of Hydrocarbon-contaminated Soils", workshop presented at the 11th International Petroleum Environmental Conference, Albuquerque, NM (October 2004)
372. "In Situ Assessment of Benzene Biodegradation Potential in a Gas Condensate Contaminated Aquifer", with Jennifer Busch-Harris, David White, Aaron Peacock, and William E. Holmes, Paper presented at the 11th International Petroleum Environmental Conference, Albuquerque, NM (October 2004)
373. "Changes in Microbial Communities During Bioremediation of Oil and Brine Spills", with Kathleen E. Duncan, Bruce Roe, Fares Najjar, Greg Thoma, Chintan Mehta, Aditya Moralwar,

and Laura P. Ford, Paper presented at the 11th International Petroleum Environmental Conference, Albuquerque, NM (October 2004)

374. "Analysis of Nematode Counts as an Ecological Indicator of Site Restoration", with Chintan Mehta, Aditya Moralwar, Laura Ford, Tim Todd, Kathleen Duncan, Joshua Brokaw, and Greg Thoma, Paper presented at the 11th International Petroleum Environmental Conference, Albuquerque, NM (October 2004)
375. "Remediation of Brine-Impacted Soil with Organic Matter: Microcosms", with Laura Ford, Shailendra Singh, Kimberly Carter, and Kathleen E. Duncan, Paper presented at the 11th International Petroleum Environmental Conference, Albuquerque, NM (October 2004)
376. "Remediation of a Spill of Crude Oil and Brine Without Gypsum", with Aditya Moralwar, Laura Ford, Kathleen Duncan, Greg Thoma and Josh Brokaw, Paper presented at the 11th International Petroleum Environmental Conference, Albuquerque, NM (October 2004)
377. "Characterization of the Root Zone of Introduced Switchgrass Growing in Soil from an Historic Brine Scar", with Dennis Beckmann, Kevin Heaton, David Tsao, Walter Zverina and Greg Davis, Paper presented at the 11th International Petroleum Environmental Conference, Albuquerque, NM (October 2004)
378. "Detection of MIC in Oilfield Brines Using an On-Line Biofilm Activity Monitor and Bug-Traps", with Gary E. Jenneman, Robert H. Webb, Chintan Mehta, Aaron Peacock and Greg Davis, Paper presented at the 11th International Petroleum Environmental Conference, Albuquerque, NM (October 2004)
379. "Bioregenerable Selective Sorbents for Hydrogen Sulfide Removal from Natural Gas – Continuing Studies", with Brandy Fidler, Gary Jenneman and Greg Bala, Paper presented at the 11th International Petroleum Environmental Conference, Albuquerque, NM (October 2004)
380. "Aerobic Bioremediation of Benzene-contaminated Groundwater in Bio-Sep[®]/Sand Packed-bed Barriers", Poster presentation at the 11th International Petroleum Environmental Conference, Albuquerque, NM (October 2004)
381. "Reliability Modeling and Failure Modes Study for E&P Facilities in the Tallgrass Prairie", with Lyda Zambrano, Greg Thoma, and Kathleen E. Duncan, Poster presentation at the 11th International Petroleum Environmental Conference, Albuquerque, NM (October 2004)
382. "Developing Guidelines for Bio-Trap Samplers to Evaluate ORC[®]-Enhanced Remediation of BTEX Contaminated Aquifers", with Greg A. Davis, Dora Ogles, Josh Streufert, Debra McElroy, Scott Mullin, and Steve Sittler, Poster presentation at the 11th International Petroleum Environmental Conference, Albuquerque, NM (October 2004)
383. "Guidelines for Applying Molecular Techniques in the Assessment of Petroleum Hydrocarbon Degradation", with Dora Ogles, Greg A. Davis Debra McElroy, Josh Streufert and Aaron Peacock, Paper presented at the 11th International Petroleum Environmental Conference, Albuquerque, NM (October 2004)
384. "In Search of the Truth Using Microbial Analyses", with Eric J. Raes, David C. White, Aaron Peacock, and Greg Davis, Paper presented at the 11th International Petroleum Environmental Conference, Albuquerque, NM (October 2004)
385. "Characterization of Microbial Communities in MTBE and TBA Contaminated Aquifers Utilizing Bio-Sep[®] Biotraps", with Marjorie Boone, Laura Ford, David White, Aaron Peacock, Anita Biernacki, and Greg Davis, Paper presented at the 11th International Petroleum Environmental Conference, Albuquerque, NM (October 2004)

386. "Surface Water Quality in an Active Crude Oil Exploration and Production Site in Oklahoma", with Rick Yates and Aditya Moralwar, Poster presentation at the 11th International Petroleum Environmental Conference, Albuquerque, NM (October 2004)
387. "Linking Aboveground and Belowground Soil Ecosystem Parameters at the Site of an Old Crude Oil Spill: Inexpensive Assessment of Soil Ecosystem Status", with Jennifer Busch-Harris, Tim Todd, and Kathleen Duncan, Poster presentation at the 11th International Petroleum Environmental Conference, Albuquerque, NM (October 2004)
388. "A Comparison of Classical and Molecular Methods for Counting Soil Bacteria at the Site of an Old Crude Oil Spill", with Kate Key, Poster presentation at the 11th International Petroleum Environmental Conference, Albuquerque, NM (October 2004)
389. "Assessment of Biodegradation Potential Using *In Situ* Microcosms with ¹³C-labeled Benzene and Toluene as Substrates", with R. Geyer, A.D. Peacock, H.-H. Richnow, D.C. White, A. Miltner, M. Kästner, and J. Busch-Harris, Paper presented at the AIChE Annual Meeting, Austin, TX (November 2004)
390. Instructor of Bioremediation for Oil Spills session with Harry Allen, Vincent Zenone, and Al Venosa for EPA OSC Training Meeting, Phoenix, AZ (November 2004)
391. "Microbial Activity Assessment Using ¹³C-BTEX Amended *In Situ* Microcosms", with A.D. Peacock, D.C. White, A. Miltner, R. Geyer, H.-H. Richnow, and M. Kästner, Paper presented at the 1st International Conference on Environmental Science and Technology, New Orleans, LA (January 2005)
392. "Bioremediation of Petroleum Hydrocarbons", Two-day workshop, Oklahoma City, OK (March 2005)
393. "Bioremediation of Petroleum Hydrocarbons", Two-day workshop, Tulsa, OK (June 2005)
394. "Bio-TrapTM Samplers to Evaluate ORC[®]-Enhanced Remediation of BTEX-Contaminated Aquifers", with G.A. Davis, S. Mullin, S. Sittler, D. Ogles, J. Streufert, D. McElroy, E. Rasch, and S. Koenigsberg, Poster presentation at the 8th *In Situ* and On-Site Bioremediation Symposium, Baltimore, MD (June, 2005)
395. "Bio-TrapTM Samplers to Evaluate ORC[®]-Enhanced Remediation of BTEX-Contaminated Aquifers", with G.A. Davis, S. Mullin, S. Sittler, D. Ogles, J. Streufert, D. McElroy, E. Rasch, and S. Koenigsberg, Paper presented at the Petroleum Hydrocarbons and Organic Chemicals in Ground Water (5040) Prevention, Assessment, and Remediation[®] Conference, Costa Mesa, CA (August, 2005)
396. "Bioremediation of Petroleum Hydrocarbons", Two-day workshop, Oklahoma City, OK (August 2005)
397. "Demonstrating the *In Situ* Biodegradation Potential of Benzene in Gasoline-Impacted Aquifers", with David White, Aaron Peacock, Greg Davis, William Holmes, and Jennifer Busch-Harris, Paper presented at The Joint International Symposia for Subsurface Microbiology and Environmental Biogeochemistry, Jackson Hole, WY (August 2005)
398. "Demonstrating the *In Situ* Biodegradation Potential of Benzene in a Gasoline-Impacted Aquifer", with J.L. Busch-Harris, Ken Roberts, D.C. White, Aaron Peacock, Greg Davis, William E. Holmes, Ravi Kolhatkar, and Xiaomin Yang, Paper presented at the Petroleum Hydrocarbons and Organic Chemicals in Ground Water (5040) Prevention, Assessment, and Remediation[®] Conference, Costa Mesa, CA (August, 2005)
399. "Characterization of Microbial Communities in MTBE and TBA Contaminated Aquifers Utilizing Bio-Sep[®] Biotraps", with Marjorie Boone, David White, Aaron Peacock, Anita

Biernacki, Greg Davis, Ravi Kolhatkar, and Xiaomin Yang, Paper presented at the Petroleum Hydrocarbons and Organic Chemicals in Ground Water (5040) Prevention, Assessment, and Remediation[®] Conference, Costa Mesa, CA (August, 2005)

400. "Lichens as Environmental Monitors: Mapping of Airborne Transport of Contaminants from Land Disposal of Poultry Wastes Within the Illinois River Watershed", with Cas Bridge, Ean Garvin, Carla Landrum, J. Berton Fisher, Ken Roberts, and Harrington Wells, Paper presented at Tulsa Geological Society meeting, Tulsa, OK (October 2005)
401. "The Use of Stable Isotopes in Nucleic Acid and Lipid Analysis for Assessing Bioremediation Potentials", with Aaron Peacock, Greg Davis, and Bill Holmes, Paper presented at the 21st Annual International Conference on Soils, Sediments, and Water, Amherst, MA (October 2005)
402. "Environmental Contaminant Releases from E&P Operations in Oklahoma: Type, Volume, Causes and Prevention", with J. Berton Fisher, Paper presented at the Geological Society of America Annual Meeting, Salt Lake City, UT (October 2005)
403. Conference Chair, 12th International Petroleum Environmental Conference, Houston, TX (November 2005)
404. "Emerging and Under Utilized Assessment Technologies for Determining Degradation Rates for *In Situ* Natural Attenuation Capacity", with Eric J. Raes, Jack Istok, Aaron Peacock, and Greg Davis, Paper presented at the 12th International Petroleum Environmental Conference, Houston, TX (November 2005)
405. "Assessment of *In Situ* Biodegradation Potential of Benzene Using ¹³C-Labeled Benzene and BioSep[®] Beads", with Jennifer Busch-Harris, Eleanor Jennings, Zhong Zhong, David White, Aaron Peacock, Greg Davis, William E. Holmes, Ravi Kolkatkar, and Xiaomin Yang, Paper presented at the 12th International Petroleum Environmental Conference, Houston, TX (November 2005)
406. "Trace Element Compositions of Brine Impacted Soils and Produced Water in Osage County, Oklahoma", with Dan Weber, Eleanor Jennings, Ken Roberts, and Bryan Tapp, Paper presented at the 12th International Petroleum Environmental Conference, Houston, TX (November 2005)
407. "Earthworms as Ecoengineers in the Restoration of Oil and Brine-Impacted Soils Following Remediation", with Nitya Alahari, Eleanor Jennings, Greg Thoma, Duane Wolf, Kathleen Duncan, Mac A. Callaham, Jr., and Tim Todd, Paper presented at the 12th International Petroleum Environmental Conference, Houston, TX (November 2005)
408. "Assessment of *In Situ* Biodegradation Potential of MTBE Using ¹³C-Labeled MTBE and BioSep[®] Beads", with Jennifer Busch-Harris, Ken Roberts, Eleanor Jennings, Aaron Peacock, David White, Greg Davis, William Holmes, and Xiaomin Yang, Paper presented at the 12th International Petroleum Environmental Conference, Houston, TX (November 2005)
409. "Monitoring Subsurface Microbial Ecology in a Sulfate-amended, Gasoline-contaminated Aquifer", with Aaron Peacock, D.C. White, G. Davis, D. Ogles, D. Cook, R. Kolhatkar, X. Yang, and D. Beckmann, Paper presented at the 12th International Petroleum Environmental Conference, Houston, TX (November 2005)
410. "Assessing Soil Ecosystem Recovery Following Managed and Unmanaged Bioremediation of a Crude Oil Spill", with Dan Weber, Eleanor Jennings, and Greg Thoma, Poster presented at the 12th International Petroleum Environmental Conference, Houston, TX (November 2005)
411. "Remediation of a Historic Brine Scar: Characterization and Development of a Remediation Protocol", Shoeb Munshi, Eleanor Jennings, Ken Roberts, J. Berton Fisher, and Bryan Tapp, Poster presented at the 12th International Petroleum Environmental Conference, Houston, TX (November 2005)

412. "Probabilistic Reliability Modeling for Oil Exploration & Production (E & P) Facilities in the Tallgrass Prairie Preserve", with Lyda Zambrano (speaker), Greg Thoma, and Kathleen E. Duncan, Conference of the Society of Hispanic Professional Engineers (January 2006)

Books

1. Sublette, Kerry L., Smith, Eddie C. and Jacobson, Ralph A., Experimental Biochemistry, University of Oklahoma, Norman, OK (1975).
2. Sublette, Kerry L. (Editor), Proceedings of the Symposium on The Reality & Consequences of a Global Climate Warming, University of Tulsa, Tulsa, OK (1991).
3. Sublette, K. L. and Harris, T. M. (Editors), Treatment and Disposal of Petroleum Sludges, Proceedings of the Center for Environmental Research and Technology Symposium on Environmental Protection in the Energy Industry, University of Tulsa (Dec. 1991).
4. Sublette, Kerry L., Harris, Thomas M. and Manning, Francis S. (Editors), Environmental Issues and Solutions in Petroleum Exploration, Production and Refining, PennWell Books, Tulsa, OK (1994).
5. Sublette, K.L. (Editor), Environmental Issues and Solutions in Petroleum Exploration, Production and Refining, Proceedings of the 2nd International Petroleum Environmental Conference, New Orleans, LA (Sept. 25-27, 1995), NTIS, Springfield, VA (1996).
6. Sublette, K.L. (Editor), Environmental Issues and Solutions in Petroleum Exploration, Production and Refining, Proceedings of the 3rd International Petroleum Environmental Conference, Albuquerque, NM (Sept. 24-27, 1996), NTIS, Springfield, VA (1997).
7. Sublette, K.L. (Editor), Environmental Issues and Solutions in Petroleum Exploration, Production and Refining, Proceedings of the 4th International Petroleum Environmental Conference, San Antonio, TX (Sept. 9-12, 1997), NTIS, Springfield, VA (1998).
8. Sublette, K.L. (Editor), Environmental Issues and Solutions in Petroleum Exploration, Production and Refining, Proceedings of the 5th International Petroleum Environmental Conference, Albuquerque, NM (Oct. 20-23, 1998), NTIS, Springfield, VA (1999).
9. Sublette, K.L. (Editor), Environmental Issues and Solutions in Petroleum Exploration, Production, and Refining, Proceedings of the 6th International Petroleum Environmental Conference, Houston, TX (Nov. 16-18, 1999), IPEC, Tulsa, OK (2000).
10. Sublette, K.L. (Editor), Environmental Issues and Solutions in Petroleum Exploration, Production, and Refining, Proceedings of the 7th International Petroleum Environmental Conference, Albuquerque, NM (Nov. 7-10, 2000), IPEC, Tulsa, OK (2001).
11. Sublette, K.L. (Editor), Environmental Issues and Solutions in Petroleum Exploration, Production, and Refining, Proceedings of the 8th International Petroleum Environmental Conference, Houston, TX (Nov. 6-9, 2001), IPEC, Tulsa, OK (2002).
12. Sublette, K.L. (Editor), Environmental Issues and Solutions in Petroleum Exploration, Production, and Refining, Proceedings of the 9th International Petroleum Environmental Conference, Albuquerque, NM (Oct. 22-25, 2002), IPEC, Tulsa, OK (2002).
13. Sublette, K.L. (Editor), Environmental Issues and Solutions in Petroleum Exploration, Production, and Refining, Proceedings of the 10th International Petroleum Environmental Conference, Houston, TX (Nov. 11-14, 2003), IPEC, Tulsa, OK (2003).

14. Sublette, K.L., Soil Remediation for Small Independent Producers, IPEC, Tulsa, OK (2003)

Proceedings (non-refereed)

1. Sublette, Kerry L., Snider, Eric H. and Sylvester, N. D., "Powdered Activated Carbon Enhancement of the Activated Sludge Process: A Study of the Mechanisms", Proc. of the Water and Wastewater Equipment Manufacturers Association Industrial Pollution Conference, Houston, TX (June 1980).
2. Sublette, Kerry L. and Sylvester, N. D., "Biological Removal of Hydrogen Sulfide from Waste Gases", Proc. of the Second Annual Conference on Hazardous Waste Research, Kansas State University, Manhattan, KS (May 1987).
3. Ongcharit, Chawan, Dauben, Paul and Sublette, Kerry L., "Oxidation of Hydrogen Sulfide by *Thiobacillus denitrificans* Immobilized by Co-Culture with the Floc-Forming Heterotrophs", Proc. of the Third Annual Conference on Hazardous Waste Research, Kansas State University, Manhattan, KS (May 1988).
4. Dasu, Badri N. and Sublette, Kerry L., "Microbial Reduction of Sulfur Dioxide", Proc. of the Third Annual Conference on Hazardous Waste Research, Kansas State University, Manhattan, KS (May 1988).
5. Sublette, K. L. and Cusack, J. L., "Removal of Hydrogen Sulfide from gases with *Thiobacillus denitrificans*", (abstract) Proceedings of the Eighth International Biotechnology Symposium, Paris, France (July 1988).
6. Sublette, Kerry L. "Removal of Hydrogen Sulfide from Gases with *Thiobacillus denitrificans*", CHEMECA '88 Proc., Institute of Engineers, Australia, Sydney, Australia (Aug. 1988).
7. Sublette, Kerry L., Shah, Y. T., Ongcharit, Chawan, Chang, Cheng-Ming and Cusack, J. L., "Microbial Oxidation of Inorganic Sulfides in a Municipal or Industrial Landfill", Proc. of the 5th International Conference on Solid Wastes, Sludges and Residual Materials: Characterization, Technology, Management, and Public Policy, Rome, Italy (April 1989).
8. Plumb, Patrick, Lee, Kuoh H., and Sublette, Kerry L., "A Microbial/Claus Process for the Production of Elemental Sulfur from Sulfur Dioxide", Proc. of the 4th Annual Hazardous Waste Research Conference, Kansas State University, Manhattan, KS (May 1989).
9. Lee, Kuoh H. and Sublette, Kerry L., "Microbial Reduction of Nitric Oxide to Elemental Nitrogen", Proc. of the 4th Annual Hazardous Waste Research Conference, Kansas State University, Manhattan, KS (May 1989).
10. Sublette, Kerry L., Pak, Daewon, Cho, Paul, Maule, Andrew and Marks, Trevor, "Reductive Degradation of Hazardous Wastes Catalyzed by Organometallic Complexes", Proc. of the 4th Annual Hazardous Waste Research Conference, Kansas State University, Manhattan, KS (May 1989).
11. Sublette, Kerry and Suci, Dan, "Microbial Removal of SO₂ and NO_x from Flue Gas", Proceedings of the Advanced Research & Technology Development Direct Utilization, Instrumentation & Diagnostics Contractors Meeting, Morgantown, WV (Oct. 1989).
12. Sublette, Kerry L., Dasu, Badri N., Plumb, Patrick and Lee, Kuoh H., "Microbial By-Product Recovery from Regenerable Processes for the Removal of Sulfur Dioxide from Flue Gas", Proceedings of the Third International Conference on Processing & Utilization of High-Sulfur Coals, Ames, Iowa (Nov. 1989).

13. Sublette, K. L., Dasu, Badri N. and Lee, K. H., "Microbial By-Product Recovery from Regenerable Processes for Flue Gas Desulfurization and NO_x Removal," Proc. of APBioChEC '90 Asia-Pacific Biochemical Engineering Conference, Kyungju, Korea (April 1990).
14. Ongcharit, Chawan, Shah, Y. T. and Sublette, K. L., "Immobilization of the Chemoautotroph *Thiobacillus denitrificans* for the Removal of H₂S from Biogas," Proc. of APBioChEC '90 Asia-Pacific Biochemical Engineering Conference, Kyungju, Korea (April 1990).
15. Sublette, K. L., Plumb, Patrick, Dasu, Badri and Lee, K. H., "Microbial Reduction of SO₂ as a Means of By-Product Recovery from Regenerable Processes for Flue Gas Desulfurization," Proc. 1st International Symposium on the Biological Processing of Coal, Orlando, FL (May 1990).
16. McInerney, M. J., Sublette, K. L. and Montgomery, A. D., "Microbial Control of the Production of Sulfide", Proceedings of the 1990 International Conference on Microbial Enhancement of Oil Recovery, Norman, OK (May 1990).
17. Sublette, Kerry L. and McInerney, Michael J., "Microbial Oxidation of Biotic and Abiotic Hydrogen Sulfide by *Thiobacillus denitrificans*," Proceedings of The Institute of Gas Technology International Symposium on Gas, Oil, Coal & Environmental Biotechnology, New Orleans, LA (Dec. 1990); Gas, Oil and Coal Environ, Biotechnol., 3, 349-68 (1991).
18. Sublette, Kerry L., Ongcharit, C., and Shah, Y. T., "An Active Sludge System for Removing Hydrogen Sulfide from Biogas", Proceedings of the International Conference on Environmental Pollution (Vol. I), Lisbon, Portugal (April 1991).
19. Sublette, Kerry L., Cho, Jeung-Guk, Schwartz, Surya, Pak, Daewon, and Maule, Andrew, "Microbial and Biomimetic Degradation of Nitrobenzenes", Proceedings of the International Conference on Environmental Pollution (Vol. I), Lisbon, Portugal (April 1991).
20. Sublette, K. L., "Microbial Removal of Hydrogen Sulfide from Biogas" (abstract) Proceedings of the Sixth International Symposium on Anaerobic Digestion, Sao Paulo, Brazil (May 1991).
21. McInerney, M. J., Sublette, K. L. "Microbial Control of the Production of Sulfide by Sulfate-Reducing Bacteria", (extended abstract) Proceedings of the Fourth World Congress of Chemical Engineering, Karlsruhe, FRG (June 1991).
22. Hasan, Saleem, Cho, Jeung-Guk and Sublette, K. L., "Porphyrin Catalyzed Degradation of Chlorinated Phenols and Nitrosubstituted Toluenes" (extended abstract), Fourth World Congress of Chemical Engineering, Karlsruhe, FRG (June 1991).
23. Sublette, K. L. and Li, Cheng-Ming, "Microbial Treatment of Sulfide-Laden Wastewater", Proceedings of the Third IAWPRC Regional Conference on Development and Water Pollution Control (Asian Waterqual '91), Shanghai, Peoples Republic of China (Nov. 1991).
24. Sublette, Kerry L. and Ongcharit, C., "Microbial Removal of Hydrogen Sulfide from Biogas", Proceedings of the International Symposium on Anaerobic Digestion of Solid Waste, Venice, Italy (April 1992).
25. Sublette, K. L., "Microbial Removal of Hydrogen Sulfide from Biogas", Proceedings of the International Congress on Biomass for Energy and Industry, Florence, Italy (Oct. 1992).
26. McInerney, Michael J., Bhupathiraju, Vishvesh K. and Sublette, Kerry, Microbial Control of Hydrogen Sulfide Production, Prepr. Pap. - Am. Chem. Soc., Div. Fuel Chem., 37, 1520-8 (1992).
27. Shaughnessy, R. J., Levetin, E. and Sublette, K. L., "Effectiveness of Portable Indoor Air Cleaners in Particulate and Gaseous Contaminant Removal", Proceedings of Indoor Air '93, vol. 6, Helsinki, Finland (July 1993).

28. Sublette, K. L., Hesketh, R. P. and Hasan, S., "Microbial Oxidation of Hydrogen Sulfide in a Pilot-scale Bubble Column", Proceedings of the 7th International Symposium on Anaerobic Digestion, Cape Town, South Africa (Jan. 1994).
29. Fisher, J. Berton, Sublette, K. L., Kemp, N., Beckman, D., Trent, G., Raterman, K., Brown, D. and Kolhatkar, R., "Intrinsic Bioremediation at Two Gas Production Sites in the Denver Basin, CO: Two Years of Groundwater and Soil Monitoring", Proceedings of the Rocky Mountain Symposium on Environmental Issues in Oil and Gas Operations, Golden, CO (Oct. 1995).
30. Gouffon, J. S., Geyer, R., Peacock, A. D., Gan, Y.-D., Chang, Y.-J., Salome, K., Lytle, C., Sublette, K. L., and White, D. C., "Rapid Quantitative Detection of Pathogens and Contamination by Analysis of Biofilms Generated on Coupons in Water Resource Management", Proceedings of the Third International Conference on Water Resources and Environmental Research (ICWRER) (edited by G. H. Schmitz). Dresden Germany, Eigenverlag des Forum fur Abfallwirtschaft und Altlasten eV, Pirna D-01796 Germany, Volume II, 305-310 (July 2002)
31. Sublette, Kerry L., Peacock, Aaron D., Davis, Greg A., Harrison, Mark C., Geyer, Roland, and White, David C., "In Situ Monitoring of the Remediation of Chlorinated Hydrocarbons Using 'Bug Traps'", Proceedings of the 7th International Symposium on *In Situ* and On-Site Bioremediation, Orlando, FL (June 2003).
32. Peacock, Aaron D., Sublette, Kerry L., Moralwar, Aditya, Davis, Greg A., Harrison, Mark C., and White, David C., "In Situ Monitoring of Chlorinated Hydrocarbon Remediation Using Baited Bio-Sep[®] Traps", Proceedings of the International Conference on Remediation of Contaminated Sediments, Venice, Italy (September/October 2003).
33. Mehta Chintan, Kerry L. Sublette, Aaron D. Peacock, Greg A. Davis, Mark C. Harrison, David C. White, Sam Fogel, Margaret Findley, and Nancy E. Frazier A comparison of *in situ* baited BIO-SEP[®]-bead traps and *ex situ* microcosms in the evaluation of potential remediation amendments in a PCE-contaminated aquifer. In Proceedings of the Fourth International Conference on Remediation of Chlorinated and Recalcitrant Compounds, Monterey, CA (May 2004).

Other Publications

1. Sublette, Kerry L. and Johnson, Bruce C., "Tandem Mechanisms Facilitate Dehydration of Crude", *Oil & Gas J.*, 84(20), 62-67 (1986).
2. Sublette, Kerry L., "Biological Processes for Removal of Hydrogen Sulfide," featured in *Bioprocessing Technology*, 8(11), 50 (1986).
3. Sublette, Kerry L., "Symposium Features New Processes, Improved Bioreactors," featured in *Bioprocessing Technology*, 10(6), 4 (1988).
4. Sublette, Kerry L., "Biological Removal of Hydrogen Sulfide from Coal Synthesis Gas", American Chemical Society, Division of Fuel Chemistry Preprints, 33(4), 665 (1988).
5. Sublette, Kerry L., "White Rot Fungus - Acquiring a Taste for Hazardous Waste," featured in *Hazmat World*, Dec. 27 (1989).
6. Sublette, Kerry L. (co-author), Environmental Report to the Governor, Oklahoma Environmental Concerns Council (Oct. 1989).
7. Sublette, Kerry L., "State Research Talents Address Diverse, Vital Issues," featured in *OCAST Focus* (Oct. 1989).

8. Sublette, Kerry L., "Research Updates - University of Tulsa - Microbial Treatment of Sour Water", featured in Waste Treatment Technology News, 6 (10), 3 (1991).
9. Sublette, Kerry L., "Treating Sour Water Microbially", featured in EnvironTech - Environmental Conservation and Restoration Technology, 3 (3), 7 (1992).
10. Sublette, Kerry L., "Universities Join Forces", featured in E & P Environment, 6 (4), 1 (1995).
11. Sublette, Kerry L., "IPEC Created to Ease Burden of Environmental Compliance", American Oil & Gas Reporter, 38 (6), 101-104 (June 1995)
12. Sublette, Kerry L., "IPEC Strives to Alleviate Regulatory Compliance Burden on Independent Producers", American Oil & Gas Reporter, 45 (3)131-134 (2002)
13. Sublette, Kerry L., "IPEC Guidelines for the Bioremediation of Crude Oil Spills", IPEC (2001)
14. Sublette, Kerry L., "IPEC Guidelines for Remediation of Small Brine Spills", IPEC (2002)
15. Sublette, Kerry L. and Spurlin, G. Phil, "Bioremediation of Oil Spills", IPEC Training Video, IPEC (2002)

Funded Research

1. "Microbial Oxidation of Hydrogen Sulfide", Combustion Engineering, \$68,000, calendar year 1986.
2. "Microbial Desulfurization of Gases", Combustion Engineering, \$40,000, calendar year 1987.
3. "Biological Desulfurization of Coal", Combustion Engineering, \$35,000, calendar year 1987.
4. "Biocatalysis with Microbial Enzymes In Situ in Organic Solvents", Combustion Engineering, \$40,000, calendar year 1987.
5. Faculty Development Summer Research Fellowship, University of Tulsa, \$3,500, Summer 1987.
6. "Powdered Activated Carbon Enhancement of the Degradation of Chlorinated Hydrocarbons by *Phanerochaete chrysosporium*", Combustion Engineering, \$65,000, calendar year 1988.
7. "Microbial Oxidation of Hydrogen Sulfide", Combustion Engineering, \$40,000, calendar year 1988.
8. "Microbial Removal of NO_x and SO₂ from Gases", Combustion Engineering, \$25,000, calendar year 1988.
9. "Biocatalysis with Microbial Enzymes In Situ in Organic Solvents", Combustion Engineering, \$35,000, calendar year 1988.
10. "Image Processing System for Process Control Applications", Combustion Engineering, \$12,500, calendar year 1988.
11. Microbial Removal of SO₂ and NO_x from Flue Gas. II. Microbial By-Product Recovery from Regenerable Processes for the Simultaneous Removal of SO₂ and NO_x from Flue Gas", Dept. of Energy (\$50,000) and Combustion Engineering (\$10,000), Oct. 1, 1988-Sept. 30, 1989.
12. "An Introduction to Chemical Engineering for Native American and Minority High School Students", with Martin Abraham (PI), Richard Thompson, Keith D. Wisecarver and Ramon Cerro, National Science Foundation, \$30,639, Feb. 15, 1988-Jan. 31, 1990.

13. "Public Education on the Subject of Radon in the State of Oklahoma", with Richard Shaughnessy, Environmental Protection Agency, \$9,562 (1989-90).
14. "Test of Electron Field Generator", with Richard Shaughnessy and Estelle Levetin, Barber and Bartz, \$11,605 (1989-90).
15. "Microbial Oxidation of Insoluble Sulfides", C-E Environmental, Inc., \$7,372 (1989).
16. "Prospectus for the Center for Environmental Research and Technology," University of Tulsa, submitted to various companies, \$30,000 (1989).
17. "Porphyrin Catalyzed Oxidation and Reduction of Hazardous Wastes, ABB-Environmental, \$75,000 (1989-92).
18. "Correlations Between Geology/Soil Characteristics and Indoor Radon Concentrations in Northeastern Oklahoma", (with Richard Shaughnessy) U.S. Environmental Protection Agency, \$18,761 (1990).
19. "Prospectus for the Center for Environmental Research & Technology", University of Tulsa, submitted to various companies, \$25,000 (1990).
20. "Feasibility Study: Development of an Inexpensive Sensor for Oil in Air," (with Kaveh Ashenayi) Allied Signal, Inc., \$6640 (1990).
21. "Development of a Sensor for Oil in Air - Literature Review", (with Kaveh Ashenayi) Allied Signal, Inc., \$6,736 (1990).
22. "Evaluation of Effectiveness of Indoor Air Cleaning Systems", with Richard Shaughnessy and Estelle Levetin, Center for Indoor Air Research, \$186,406 (1990).
23. "Microbial Reduction of SO₂ and NO_x as a Means of By-Product Recovery/Disposal From Regenerable Processes for the Desulfurization of Flue Gas," Pittsburgh Energy Technology Center of the U.S. Dept. of Energy, \$294,255 (1990-93).
24. "Regional Radon Training Center" (with Richard Shaughnessy at T.U., and Texas A&M University, Auburn University, and the University of Louisville), \$26,000 (TU share); (1991).
25. "Field Test of Microbial Control of the Production of H₂S by Sulfate Reducing Bacteria," (with Michael McInerney), Gas Research Institute subcontracted through Bioindustrial Technologies, Inc., \$21,000 (1991).
26. Travel Award to Attend the 33rd IUPAC Congress in Budapest, Hungary, August 17-22, 1991 National Research Council, \$1100 (1991).
27. "Microbial Oxidation of H₂S in a Demonstration-Scale Bubble Column", (with Robert Hesketh) OCAST, \$91,340, (1991).
28. "Evaluation of *Thiobacillus denitrificans* for Sour Water Remediation at Salt Creek Field", Amoco Production Co., \$16,388 (1992).
29. "Regional Radon Training Center" (with Richard Shaughnessy at University of Tulsa, Texas A&M University and Auburn University), \$31,500 (TU share); (1992).
30. "Prospectus for the Center for Environmental Research and Technology", University of Tulsa, submitted to various companies, \$15,000 (1991).
31. "Microbial Control of Sulfide Production by Sulfate Reducing Bacteria" (with Michael McInerney), Gas Research Institute subcontracted through Radian Corp., \$50,000 (1992).

32. "Set-up of Biotreatability Lab at Amoco Research Center". Amoco Production Co., \$12,000 (1992).
33. "Construction of Large-Scale Fermentation Facility", Asea Brown Boveri, \$25,000 (1992).
34. "Sour Water Treatability Study" (with Frank Manning), Conoco, Inc., \$18,600 (1992).
35. "Prospectus for Center for Environmental Research and Technology", various companies, \$15,000 (1992).
36. "Treatment of Spent Sulfide Caustic in an Activated Sludge System: Phase I. Growth of *T. denitrificans* Inoculum" (with Frank Manning), Conoco, Inc., \$7,000 (1992).
37. "Anaerobic Degradation of Hydrocarbons", Amoco Production Co., \$116,000 (1993-96).
38. "Enhancement of Biodegradability Through Use of Substituted Porphyrins to Pretreat Hazardous Waste," (with University of Oklahoma and Stanford University) U.S. Dept. of Energy, TU share: \$133,000.
39. "Support for International Petroleum Environmental Conference", (with F. S. Manning), Amoco Production Co. and Conoco, Inc., \$4,000 (1994).
40. "Biotreatability of Refinery Spent Sulfidic Caustic", Exxon Research and Engineering, \$11,280 (1994).
41. "DuPont Environmental Award", DuPont, \$25,000 (1994).
42. "Support for Second Annual Petroleum Environmental Conference" (with Pat Hall), U. S. Dept. of Energy, \$20,000; various industries, \$4,500 (1995).
43. "Support for 5th International Symposium on Microbial Enhancement of Oil Recovery", (with Rebecca Bryant), U.S. Dept. of Energy, \$50,000 (1995).
44. "Biotreatment of Refinery Spent Sulfidic Caustic Containing Mercaptans", Exxon Research & Engineering and ABB Environmental Services, \$35,611 (1995).
45. "Immobilization of a Sulfide-oxidizing Bacterium in a Novel Adsorbent Biocatalyst Support for Treatment of Refinery Spent Sulfidic Caustic", Conoco, Inc., \$40,000 (1995).
46. Hazardous Materials Training to Native American Tribal First Responders", joint WERC/IPEC proposal to the Federal Emergency Management Agency, Region VI, \$23,000 (1995).
47. "Support for the 3rd Annual International Petroleum Environmental Conference" (with Pat Hall), U.S. Dept of Energy, \$26,000 (1996).
48. Hazardous Materials Training to Native American Tribal First Responders", joint WERC/IPEC proposal to the Federal Emergency Management Agency, Region VI, \$23,000 (1996).
49. "Intrinsic Bioremediation of Gas Condensate Hydrocarbons: Development of a Scientific Basis to Support Regulatory Decisions at Hydrocarbon Contaminated Sites", (K. Sublette, Principal Investigator; M.J. McInerney and Robert Knox, Subcontract PI's), U.S. Dept. of Energy, \$973,175; Amoco Production Co., \$135,000 (1996-1999).
50. "Support for the 4th Annual International Petroleum Environmental Conference" (with Pat Hall), U.S. Dept of Energy, \$27,000 (1997).

51. Hazardous Materials Training to Native American Tribal First Responders", joint WERC/IPEC proposal to the Federal Emergency Management Agency, Region VI, \$23,000 (1997).
52. "Biotreatment of Mercaptan-containing Caustic in an Immobilized-cell Bioreactor", (with Robert Beitle, University of Arkansas), Exxon Research and Engineering, \$67,314 (1997-1998).
53. "The Renewal of Soil Ecosystems Following Remediation of Crude Oil and Produced Water Spills in the Tallgrass Prairie Preserve", (with William Potter, Thomas Harris, Kathleen Duncan and Estelle Levetin), U.S. Dept. of Energy, \$50,000 (1997-1998).
54. "Detection, Isolation, and Characterization of Microorganisms Responsible for the Anaerobic Biodegradation of Gas Condensate Hydrocarbons", (with Joseph Suflita, Mike McInerney, Ralph Tanner - University of Oklahoma), U.S. Environmental Protection Agency and Oklahoma State Regents, \$313,321 (\$80,852 - TU), 1997-1999.
55. "Integrated Petroleum Environmental Consortium", U.S. Environmental Protection Agency, \$1.5 million; State of Oklahoma, \$375,000, FY98.
56. "Support for the 5th International Petroleum Environmental Conference" (with Pat Hall), U.S. Dept. of Energy, \$27,000 (1998).
57. "Integrated Petroleum Environmental Consortium", U.S. Environmental Protection Agency, \$1.5 million; State of Oklahoma, \$50,000, FY99.
58. "Bioreactor Design and Demonstration for Microbial Oxidation of Sulfides", U.S. Department of Energy, \$199,672 (1998-2001).
59. "The Fate of Hydrocarbons in the Vadose Zone at a Site Contaminated with Gas Condensate Hydrocarbons", (with Greg Thoma, University of Arkansas), Gas Research Institute, \$120,000 (1998-1999).
60. "Support for the 6th International Petroleum Environmental Conference" (with Pat Hall), U.S. Dept. of Energy, \$27,000 (1999).
61. "Characterization and Analysis of Oil and Brine Impacted Sites in the Tallgrass Prairie Preserve", U.S. Dept. of Energy, \$97,696 (1999-2000).
62. "Integrated Petroleum Environmental Consortium", U.S. Environmental Protection Agency, \$750,000 (FY00).
63. "Support for the 7th International Petroleum Environmental Conference" (with Pat Hall), U.S. Dept. Of Energy, \$27,000 (2000).
64. "Risk Reduction and Soil Ecosystem Restoration in an Active Oil Producing Area in an Ecologically Sensitive Setting", (CoPIs: Thomas Harris and Laura Ford), U.S. Dept. of Energy, \$976,000 (2000-2004).
65. "Support for the 8th International Petroleum Environmental Conference", (with Pat Hall), U.S. Dept. of Energy, \$27,000 (2001).
66. "Integrated Petroleum Environmental Consortium", U.S. Environmental Protection Agency, \$750,000 (FY01).
67. "Biotreatment of Hydrocarbon Laden Air", BPAmoco, \$11,535 (2001).
68. "Remediation of Brine Spills with Hay", (with Thomas Harris and Laura Ford [PI]), Integrated Petroleum Environmental Consortium (U.S. Environmental Protection Agency), \$79,103; Shell E&P, \$17,000 (2001-2002).

69. "Integrated Petroleum Environmental Consortium", U.S. Environmental Protection Agency, \$1,250,000 (FY02).
70. "Support for the 9th International Petroleum Environmental Conference", (with Pat Hall), U.S. Dept. of Energy, \$27,000 (2001).
71. "Tallgrass Prairie Ecological Research Station", (with TU Development Office and the Oklahoma Chapter of The Nature Conservancy), \$1,920,000 (2002-2003).
72. "Development of Smart Proppant Technology for Hydraulic Fracturing", U.S. Dept. of Energy, \$117,000 (2002-2003)
73. "Identifying the Signature of Natural Attenuation in the Microbial Ecology of Hydrocarbon Contaminated Groundwater Using Molecular Methods and Bug Traps" (CoPIs: David White and Aaron Peacock, University of Tennessee; Laura Ford), Integrated Petroleum Environmental Consortium (U.S. Environmental Protection Agency), \$148,000 (2003-2004).
74. "Identifying the Signature of the Natural Attenuation of MTBE in Groundwater Using Molecular Methods and Bug Traps" (CoPIs: David White and Aaron Peacock, University of Tennessee; Laura Ford), Integrated Petroleum Environmental Consortium (U.S. Environmental Protection Agency), \$143,000 (2003-2003).
75. "Use of Earthworms to Accelerate the Restoration of Oil and Brine Impacted Sites" (CoPIs: Greg Thoma (UA); Art Stewart (UTK); Kathleen Duncan (OU); Tim Todd (KSU), Integrated Petroleum Environmental Consortium (U.S. Environmental Protection Agency), \$447,125 (2003-2005)
76. "Analysis of MTBE and TBA biodegradation potential *in situ* using a new generation of Bio-Sep", American Petroleum Institute, \$36,000 (2004)
77. "Assessing biodegradation potential using *in situ* microcosms and ¹³C-labeled hydrocarbons" (CoPIs David White and Aaron Peacock, University of Tennessee), Integrated Petroleum Environmental Consortium (U.S. Environmental Protection Agency), \$86,986 (2005-2006).
78. "*In situ* assessment of MTBE and TBA biodegradation potential using a new generation of Bio-Sep (CoPIs David White and Aaron Peacock, University of Tennessee), Integrated Petroleum Environmental Consortium (U.S. Environmental Protection Agency), \$139,986 (2005-2006).
79. "Development of a low-cost approach to remediation and restoration of historic brine scars", (CoPI Tim Todd, Kansas State University), Integrated Petroleum Environmental Consortium (U.S. Environmental Protection Agency), \$122,330 (2005-2006).
80. "Nematodes as indicators of soil ecosystem restoration at E&P sites", (CoPI Kathleen Duncan, University of Oklahoma; Tim Todd, Kansas State University), Integrated Petroleum Environmental Consortium (U.S. Environmental Protection Agency), \$104,337 (2005-2006).

Masters and Doctoral Committees at The University of Tulsa

1. Chairperson

Badri N. Dasu, M.S., 1988
 Patricia Cadenhead, M.S., 1988

Patrick Plumb, M.S., 1989
Kuoh H. Lee, M.S., 1989
Cheng-Ming Chang, Ph.D., 1989
Carl Camp, Ph.D., 1990
Chawan Ongcharit, Ph.D., 1990
Hari Kumar, M.S., 1992
Jeong-Guk Cho, Ph.D., 1992
Vinay Deshmane, M.S., 1992
Ramesh Shanmugasundaram, M.S., 1992
Balasubramani Rajganesh, M.S., 1993
Brian Habeck, M.S., 1994
P. T. Selvaraj, Ph.D., 1994
Saleem Hasan, Ph.D., 1994
Arati Kolhatkar, M.S., 1995
Abhijeet Borole, Ph.D., 1995
Anbu Subramaniyan, M.S., 1996
Ravi Kolhatkar, Ph.D., 1997
Charles McComas, M.S., 1999
Rick Yates, Ph.D., 2000
Cherie Almeida, M.S., 2001
Kimberly Carter, M.S., 2002
Marjorie Boone, M.S., 2004
Aditya Moralwar, M.S., 2004
Chintan Mehta, Ph.D., 2004

Technical Consulting

Asea Brown Boveri: Corporate Laboratory, Baden, SWITZERLAND
ABB Flakt New Ventures, Stockholm, SWEDEN
ABB Ricerca, Milan, ITALY
ABB Environmental Norsk Viftefabrikk, Oslo, NORWAY
ABB Environmental, Inc., Portland, ME
ABB Lummus-Crest, Inc., Bloomfield, NJ
Amoco Research, Tulsa, OK
Conoco, Inc., Ponca City, OK
NATCO, Tulsa, OK
NOVA Engineering, Tulsa, OK
American Southwest Brine, Tulsa, OK
Camber Industries, Vancouver, British Columbia
Marathon Oil Co., Cody, WY
Gardere and Wynne, L.L.P., Tulsa, OK
Exxon Research & Engineering, Florham Park, NJ
BPAmoco, Tulsa, OK
ReTec Corp, Austin, TX
ConocoPhillips, Bartlesville, OK
MI Drilling Fluids, Houston, TX
Atlantic Richfield (BP), LaPalma, CA
Various small oil and gas producers in Oklahoma and Arkansas

University of Tulsa Service Activities

1. Associate Director, Center for Environmental Research and Technology, June 1988-March 1989.
2. Director, Center for Environmental Research and Technology, March 1989-present.

3. Director of the Graduate Program, Dept. of Chemical Engineering, January 1987-September 1988.
4. Space Utilization Committee, Dept. of Chemical Engineering, Fall 1988-present.
5. Graduate Curriculum Committee (Chair), Dept. of Chemical Engineering, Spring 1988.
6. Research Incentive Committee, College of Engineering & Applied Sciences, 1988-present.
7. Doctoral Program Development Committee, Dept. of Biological Sciences, Fall 1986.
8. Faculty Search Committee, Dept. of Biological Sciences, Fall 1986.
9. Animal Colony Committee, Dept. of Biological Sciences, Fall 1986-present.
10. Recombinant DNA Facilities Committee, Dept. of Biological Sciences, Spring 1987-present.
11. Industrial Advisory Board Graduate Education Committee, Dept. of Chemical Engineering, January 1987-September 1988.
12. Graduate Studies Committee, Dept. of Chemical Engineering, Spring 1989-present.
13. Judge, Tulsa Regional Science and Engineering Fair, March 1989.
14. TU International Environmental Conference Committee, May 1989-April 1990.
15. University Committee to Review the "Statement of Academic Freedom...", Sept. 1989-1991.
16. Category Head (Environmental Sciences), 41st International Science & Engineering Fair, Tulsa, OK (May 1990).
17. Dept. of Energy Peer Review Panel - Fossil Energy Advanced Research Program (July 1990).
18. Founder and director of Save Oklahoma's Streams - a volunteer action group associated with CERT.
19. Search Committee for Dean of the College of Engineering and Applied Sciences (Dec. 1990 to April 1992).
20. Oklahoma EPA EPSCOR Planning Committee (Sept. 1991 to present).
21. National Science Foundation SBIR Proposal Review Panel - Environmental Biology (Sept. 1992).
22. Co-Chair Phi Beta Kappa Triennial Symposium on Environment and Development (April 1992 - present).
23. Search Committee for College of Engineering and Applied Sciences Development Officer (Oct. 1992 - March 1993).
24. Faculty Search Committee, Dept. of Biological Sciences (Spring, 1993).
25. Guest Speaker, Discover E Program, National Engineering Week (Spring, 1993).
26. Chairman, College of Engineering & Applied Sciences Environmental Task Force (Spring, 1993).

27. National Science Foundation SBIR Proposal Review Panel - Environmental Biology (Sept. 1993).
28. Panel Moderator, Environmental Federation of Oklahoma, "How to Breathe Easier Under the Clean Air Act," Tulsa, OK (Sept. 1993).
29. Search Committee for Chairman of Chemical Engineering (Dec. 93 - May 94).
30. BDM/TU Subcontract Implementation Committee (Jan. 94 - May 95).
31. College Promotion and Tenure Committee (Sept. 94 - Jan. 97).
32. Interim Director of the Integrated Petroleum Environment Consortium (IPEC) (Sept. 94 - Oct. 97).
33. Chair, Joint University of Tulsa - Nature Conservancy Task Force for the University of Tulsa Tallgrass Prairie Experimental Station (Jan. 96 - Jan. 97).
34. Engineering and Applied Sciences Environmental Task Force (Jan. 96 - present).
35. Academic Program Review Committee (Sept. 96 - Oct. 97).
36. Chair, Tallgrass Prairie Ecological Research Station Facility Board (Jan. 97 - present).
37. Director, Integrated Petroleum Environmental Consortium (Oct. 97 - present).
38. Chair, Chemical Engineering Chair Search Committee (August 99 - August 00).