

ESD Publications Calendar Year 2003

Books (4)

1. Cutter, S., D. Richardson, and T.J. Wilbanks, *The Geographical Dimensions of Terrorism*. 2003, New York: Routledge.
2. Dale, V.H., *Ecological Modeling for Resource Management*. 2003, New York: Springer.
3. Hanson, P.J. and S.D. Wulschleger, *North American Temperate Deciduous Forest Responses to Changing Precipitation Regimes*. Ecological Studies. Vol. 166. 2003, New York: Springer-Verlag. 472 p.
4. Kates, R., T.J. Wilbanks, and R. Abler, *Global Change and Local Places: Estimating, Understanding, and Reducing Greenhouse Gases*. 2003, Cambridge: Cambridge Univ. Press.

Book Sections (41)

5. Cutter, S., D. Richardson, and T.J. Wilbanks, *The changing landscape of fear*, in *The Geographical Dimensions of Terrorism*, S. Cutter, D. Richardson, and T. Wilbanks, Editors. 2003, Routledge: New York. p. 1-5.
6. Cutter, S., D. Richardson, and T.J. Wilbanks, *A Research and action agenda*, in *The Geographic Dimensions of Terrorism*, S. Cutter, D. Richardson, and T.J. Wilbanks, Editors. 2003, Routledge: New York. p. 223-229.
7. Dale, V.H., *Opportunities for using ecological models for resource management*, in *Ecological Modeling for Resource Management*, V.H. Dale, Editor. 2003, Springer: New York. p. 3-22.
8. Dale, V.H., *New directions in ecological modeling for resource management*, in *Ecological Modeling for Resource Management*, V.H. Dale, Editor. 2003, Springer: New York. p. 310-320.
9. Dale, V.H., C. Rewerts, W. Van Winkle, M. Harwell, M. Vasiesich, and S. Hodnapp, *Barriers to the use of ecological models in decision making*, in *Ecological Modeling for Resource Management*, V.H. Dale, Editor. 2003, Springer: New York. p. 109-124.
10. Edwards, N.T. and P.J. Hanson, *Aboveground autotrophic respiration*, in *North American Temperate Deciduous Forest Responses to Changing Precipitation Regimes*, P.J. Hanson and S.D. Wulschleger, Editors. 2003, Springer-Verlag: New York. p. 48-66.
11. Haggblom, M.M., Y.B. Ahn, D.E. Fennell, L.J. Kerkhof, and S.K. Rhee, *Anaerobic dehalogenation of organohalide contaminants in the marine environment*, in *Advances in Applied Microbiology, Vol 53*. 2003. p. 61-+.
12. Hanson, P.J., N.T. Edwards, T.J. Tschaplinski, S.D. Wulschleger, and J.D. Joslin, *Estimating the net primary and net ecosystem production of a southeastern upland Quercus forest from an 8-year biometric record*, in *North American Temperate Deciduous Forest Responses to Changing Precipitation Regimes*, P.J. Hanson and S.D. Wulschleger, Editors. 2003, Springer-Verlag: New York. p. 378-395.

13. Hanson, P.J., M.A. Huston, and D.E. Todd, *Walker Branch throughfall displacement experiment*, in *North American Temperate Deciduous Forest Responses to Changing Precipitation Regimes*, P.J. Hanson and S.D. Wullschleger, Editors. 2003, Springer-Verlag: New York. p. 8-31.
14. Hanson, P.J. and F.M. O'Hara, *Introduction*, in *North American Temperate Deciduous Forest Responses to Changing Precipitation Regimes*, P.J. Hanson and S.D. Wullschleger, Editors. 2003, Springer-Verlag: New York. p. 3-7.
15. Hanson, P.J., E.G. O'Neill, M.L.S. Chambers, J.S. Riggs, J.D. Joslin, and M.H. Wolfe, *Soil respiration and litter decomposition*, in *North American Temperate Deciduous Forest Responses to Changing Precipitation Regimes*, P.J. Hanson and S.D. Wullschleger, Editors. 2003, Springer-Verlag: New York. p. 163-189.
16. Hanson, P.J., D.E. Todd, D.W. Johnson, and J.D. Joslin, *Responses of Eastern Deciduous Forests to Precipitation Change*, in *Changing Precipitation Regimes and Terrestrial Ecosystems: A North American Perspective*, J.F. Weltzin and G.R. McPherson, Editors. 2003, University of Arizona Press. p. 164-179.
17. Hanson, P.J., D.E. Todd, and J.D. Joslin, *Canopy production*, in *North American Temperate Deciduous Forest Responses to Changing Precipitation Regimes*, P.J. Hanson and S.D. Wullschleger, Editors. 2003, Springer-Verlag: New York. p. 303-315.
18. Hanson, P.J., D.E. Todd, D.C. West, N.T. Edwards, M.L. Tharp, and W.A. Simpson, *Tree and sapling growth and mortality*, in *North American Temperate Deciduous Forest Responses to Changing Precipitation Regimes*, P.J. Hanson and S.D. Wullschleger, Editors. 2003, Springer-Verlag: New York. p. 255-273.
19. Huston, M.A., *Understanding the effects of fire and other mortality-causing disturbances on species diversity*, in *Fire in Ecosystems of South-West Western Australia: Impacts and Management*, I. Abbott and N.J. Burrows, Editors. 2003, Backhuys Publishers. p. 37-70.
20. Huston, M.A., M. Holmgren, and M.B. Kreh, *Response of understory tree seedling populations to spatiotemporal variation in soil moisture*, in *North American Temperate Deciduous Forest Responses to Changing Precipitation Regimes*, P.J. Hanson and S.D. Wullschleger, Editors. 2003, Springer-Verlag: New York. p. 227-254.
21. Huston, M.A., D.E. Todd, and D.G. Barlar, *Long-term forest dynamics and tree growth at the TDE site on Walker Branch Watershed*, in *North American Temperate Deciduous Forest Responses to Changing Precipitation Regimes*, P.J. Hanson and S.D. Wullschleger, Editors. 2003, Springer-Verlag: New York. p. 417-432.
22. Jardine, P.M., T.L. Mehlhorn, Y. Roh, and W.E. Sanford, *Hydrological and geochemical processes controlling the fate and transport of contaminants in fractured bedrock*, in *Geochemical and Hydrological Reactivity of Heavy Metals in Soils*, H.M. Selim and W.L. Kingery, Editors. 2003, Lewis Publishers: Boca Raton.

23. Johnson, D.W., P.J. Hanson, and D. Todd, E., *Nutrient availability and cycling*, in *North American Temperate Deciduous Forest Responses to Changing Precipitation Regimes*, P.J. Hanson and S.D. Wullschleger, Editors. 2003, Springer-Verlag: New York. p. 396-414.
24. Joslin, J.D. and M.H. Wolfe, *Fine-root growth response*, in *North American Temperate Deciduous Forest Responses to Changing Precipitation Regimes*, P.J. Hanson and S.D. Wullschleger, Editors. 2003, Springer-Verlag: New York. p. 274-302.
25. Kates, R.W. and T. Wilbanks, *A grand query: how scale matters in global change research*, in *Global change and local places : estimating, understanding, and reducing greenhouse gases*, A.o.A.G.G.C.a.L.P.R. Team, Editor. 2003, Cambridge Univ. Press: New York. p. 3-26.
26. Kates, R.W., T.J. Wilbanks, and R.F. Abler, *Global change and local places: lessons learned*, in *Global change and local places : estimating, understanding, and reducing greenhouse gases*, A.o.A.G.G.C.a.L.P.R. Team, Editor. 2003, Cambridge Univ. Press: New York. p. 239-260.
27. King, W.C. and V.H. Dale, *What in the world is worth fighting for?*, in *Ecological Modeling for Resource Management*, V.H. Dale, Editor. 2003, Springer: New York. p. 289-309.
28. Leiby, P.N. and J. Rubin, *Transitions in light-duty vehicle transportation - Alternative-fuel and hybrid vehicles and learning*, in *Energy, Air Quality, and Fuels 2003*. 2003. p. 127-134.
29. Menzie, C.A., R.A. Efroymson, S.J. Ells, G.M. Henningsen, and B.K. Hope, *Risk assessment and risk management*, in *Contaminated Soils: From Soil-Chemical Interactions to Ecosystem Management*, R.P. Lanno, Editor. 2003, SETAC Press: Pensacola. p. 11-72.
30. Mulholland, P.J., *Large scale patterns in DOC concentration, flux, and sources*, in *Aquatic Ecosystems: Interactivity of Dissolved Organic Matter*, S. Findlay and R. Sinsabaugh, Editors. 2003, Academic Press. p. 139-159.
31. Post, W.M., *Impact of soil restoration, management, and land-use history on forest-soil carbon*, in *The Potential of U.S. Forest Soils to Sequester Carbon and Mitigate the Greenhouse Effect*, J.M. Kimble, et al., Editors. 2003, Lewis Publishers. p. 191-199.
32. Sokhansanj, S. and R.T. Patil, *Dehulling and splitting pulses*, in *Handbook of Postharvest Technology: Cereals, Fruits, Vegetables, Tea, and Spices*, A. Chakraverty , et al., Editors. 2003, Marcel Dekker: New York. p. 397-426.
33. Todd, D.E. and P.J. Hanson, *Rates of coarse-wood decomposition*, in *North American Temperate Deciduous Forest Responses to Changing Precipitation Regimes*, P.J. Hanson and S.D. Wullschleger, Editors. 2003, Springer-Verlag: New York. p. 210-214.

34. Tschaplinski, T.J. and G.M. Gebre, *Leaf water potential, osmotic potential, and solute accumulation of several hardwood species as affected by manipulation of throughfall precipitation in an upland Quercus forest*, in *North American Temperate Deciduous Forest Responses to Changing Precipitation Regimes*, P.J. Hanson and S.D. Wullschleger, Editors. 2003, Springer-Verlag: New York. p. 121-139.
35. Tschaplinski, T.J. and P.J. Hanson, *Dormant-season nonstructural carbohydrate storage*, in *North American Temperate Deciduous Forest Responses to Changing Precipitation Regimes*, P.J. Hanson and S.D. Wullschleger, Editors. 2003, Springer-Verlag: New York. p. 67-84.
36. Wilbanks, T.J., *Geographic Scaling Issues in Integrated Assessments of Climate Change*, in *Scaling in Integrated Assessment*, J. Rotmans and D. Rothman, Editors. 2003, Swets & Zeitlinger: Lisse. p. 5-34.
37. Wilbanks, T.J., *Energy systems and infrastructures*, in *The Geographical Dimensions of Terrorism*, S. Cutter, D. Richardson, and T.J. Wilbanks, Editors. 2003, Routledge: New York. p. 139-143.
38. Wilbanks, T.J. and D. Capistrano, *Dealing with scale*, in *Ecosystem Studies: Ecosystem Science and Management*, M.E. Assessment, Editor. 2003, Island Press: Washington. p. 197-126.
39. Wilbanks, T.J. and R.W. Kates, *Long term potentials for reducing Greenhouse Gas emissions from local areas*, in *Global change and local places : estimating, understanding, and reducing greenhouse gases*, A.o.A.G.G.C.a.L.P.R. Team, Editor. 2003, Cambridge Univ. Press: New York. p. 217- 238.
40. Wilbanks, T.J., R.W. Kates, D.P. Angel, S.L. Cutter, W.E. Easterling, and M.W. Mayfield, *The research strategy: linking the local to the global*, in *Global change and local places : estimating, understanding, and reducing greenhouse gases*, A.o.A.G.G.C.a.L.P.R. Team, Editor. 2003, Cambridge Univ. Press: New York. p. 27-54.
41. Wilson, K.B. and P.J. Hanson, *Deciduous hardwood photosynthesis: Species, differences, temporal patterns, and responses to soil-water deficits*, in *North American Temperate Deciduous Forest Responses to Changing Precipitation Regimes*, P.J. Hanson and S.D. Wullschleger, Editors. 2003, Springer-Verlag: New York. p. 35-47.
42. Wullschleger, S.D., C.A. Gunderson, M.L. Tharp, D.C. West, and W.M. Post, *Simulated patterns of forest succession and productivity as a consequence of altered precipitation*, in *North American Temperate Deciduous Forest Responses to Changing Precipitation Regimes*, P.J. Hanson and S.D. Wullschleger, Editors. 2003, Springer-Verlag: New York. p. 433-446.
43. Wullschleger, S.D. and P.J. Hanson, *Sensitivity of sapling and mature-tree water use to altered precipitation regimes*, in *North American Temperate Deciduous Forest Responses to Changing Precipitation Regimes*, P.J. Hanson and S.D. Wullschleger, Editors. 2003, Springer-Verlag: New York. p. 87-99.

44. Wullschleger, S.D., P.J. Hanson, and D. Todd, E., *Forest water use and the influence of precipitation change*, in *North American Temperate Deciduous Forest Responses to Changing Precipitation Regimes*, P.J. Hanson and S.D. Wullschleger, Editors. 2003, Springer-Verlag: New York. p. 363-377.
45. Zhang, H., S. Lindberg, M. Gustin, and X.H. Xu, *Toward a better understanding of mercury emissions from soils*, in *Biogeochemistry of Environmentally Important Trace Elements*, Y. Cai and O.C. Braids, Editors. 2003, American Chemical Society. p. 246-261.

Conference Papers (9)

46. Cheng, M.D. *Advanced measurement of elemental content of airborne particulate matter on a continuous basis*. in *96th National Meeting of the Air & Waste Management Association*. 2003. San Diego.
47. Cheng, M.D. and D.W. Lee. *Investigation of nanoparticle formation during surface decontamination and characterization by pulsed laser*. in *EMSP Symposium on Nuclear Waste Management of the 226th American Chemical Society National Meeting*. 2003. New York.
48. Fisher, S.L., D. Cole, J. Blencoe, G.R. Moline, J. Parker, and T.J. Phelps. *High pressure flow-through column for assessing subsurface carbon sequestration*. in *Second National Conference on Carbon Sequestration*. 2003.
49. Lennox, K.E., A. Akerman, C.W. Ayers, T.Q. Dam, S. Goedke, R.N. McGill, J.M. Storey, M.D. Cheng, R.K. Richards, M.L. Simpson, W.G. Flsher, and E.A. Wachter. *Further development of remote sensing instrumentation for NOx and PM emissions from heavy duty trucks*. in *96th National Meeting of Air & Waste Management Association*. 2003. San Diego.
50. Miller, R.L. and A.L. Sjoreen. *An innovative approach for determining downwind normalized concentrations from an accidental release*. in *Proceedings, 96th Annual Meeting & Exhibition*. 2003: Air & Waste Management Association.
51. Roh, Y., R.J. Lauf, and T.J. Phelps. *Biogeochemical processes utilizing fly ash for carbon sequestration*. in *Second National Conference on Carbon Sequestration*. 2003. Alexandria, VA: U.S. Dept. of Energy.
52. Schweitzer, M., B.E. Tonn, L.G. Berry, and D.W. Jones. *Using performance metrics to quantify energy savings and emissions reductions for the U.S. Department of Energy's State Energy Program*. in *2003 International Energy Program Evaluation Conference*. 2003. Seattle.
53. Washington-Allen, R.A. *Retrospective assessment of soil stability on a landscape subject to commercial grazing*. in *VIIIth International Rangelands Congress*. 2003. Durban, South Africa: Document Transformation Technologies, LLC.

54. Washington-Allen, R.A. *Remote sensing based dynamical systems analyses of sagebrush steppe vegetation in rangelands*. in *VIIIth International Rangelands Congress*. 2003. Durban, South Africa: Transformation Technologies LLC.

Electronic Sources (8)

55. Joyce, L., W. Fox, P. Geissler, R. Heitschmidt, L. Hidinger, D. Patten, S. J., L. Strong, R. Unnasch, and R.A. Washington-Allen, *Indicators for maintenance and conservation of plant and animal resources on rangelands*. 2003, 2003 Sustainable Rangelands Roundtable First Approximation Report.
56. Salk, M.S., *Environmental data from the Oak Ridge Reservation*. 2003, Oak Ridge National Laboratory.
57. Salk, M.S., *Invasive plants of the Oak Ridge Reservation*. 2003, Oak Ridge National Laboratory.
58. Salk, M.S., *Birds of the Oak Ridge Reservation*. 2003, Oak Ridge National Laboratory.
59. Salk, M.S., *Cultural resources of the Oak Ridge Reservation*. 2003, Oak Ridge National Laboratory.
60. Salk, M.S., *Restoring native grass communities on the Oak Ridge Reservation*. 2003, Oak Ridge National Laboratory.
61. Salk, M.S., *Nuisance animals on the Oak Ridge Reservation*. 2003, Oak Ridge National Laboratory.
62. Tonn, B.E., *Evaluation of synergistic impacts of the New York Energy Smart Program, Appendix C*. in *New York Energy Smart Program Evaluation and Status Report*. 2003, New York State Energy Research and Development Authority: Albany. p. C1-C10.

Journal Articles (152)

63. Adams, S.M., *Establishing causality between environmental stressors and effects on aquatic ecosystems*. *Hum. Ecol. Risk Assess.*, 2003. **9**(1): p. 17-35.
64. Adams, S.M., M.S. Greeley, J.M. Law, E.J. Noga, and J.T. Zelikoff, *Application of multiple sublethal stress indicators to assess the health of fish in Pamlico Sound following extensive flooding*. *Estuaries*, 2003. **26**(5): p. 1365-1382.
65. Amthor, J.S., *Effects of atmospheric CO₂ concentration on wheat yield: review of results from experiments using various approaches to control CO₂ concentration (vol 73, pg 1, 2001)*. *Field Crops Res.*, 2003. **84**(3): p. 395-395.
66. Arinze, E.A., G.J. Schoenau, S. Sokhansanj, and P. Adapa, *Aerodynamic separation and fractional drying of alfalfa leaves and stems - A review and new concept*. *Dry. Technol.*, 2003. **21**(9): p. 1669-1698.
67. Baldocchi, D.D. and L.H. Gu, *Multiple ecosystem interactions lead to overall reduced growth in atmospheric CO₂ concentration*. *IGBP Newsletter*, 2003. **54**: p. 24.

68. BassiriRad, H., J.V.H. Constable, J. Lussenhop, B.A. Kimball, R.J. Norby, W.C. Oechel, P.B. Reich, W.H. Schlesinger, S. Zitzer, H.L. Sehtiya, and S. Silim, *Widespread foliage delta N-15 depletion under elevated CO₂: inferences for the nitrogen cycle*. *Glob. Change Biol.*, 2003. **9**(11): p. 1582-1590.
69. Benesch, T., S. Yiacoymi, and C. Tsouris, *Brownian motion in confinement - art. no. 021401*. *Physical Review E*, 2003. **6802**(2, Part 1): p. 1401-1401.
70. Blasing, T.J., D. Scott, and D. Kaiser, *Evidence for recent changes in a surface-air warming singularity in late winter over central North America - art. no. 1452*. *Geophys. Res. Lett.*, 2003. **30**(9): p. 1452.
71. Brooks, S.C. and S.L. Carroll, *Geochemical reactions governing the fate of Co-NTA in contact with natural subsurface materials*. *Appl. Geochem.*, 2003. **18**(3): p. 423-433.
72. Brooks, S.C., J.K. Fredrickson, S.L. Carroll, D.W. Kennedy, and J.M. Zachara, *Inhibition of bacterial U(VI) reduction by calcium*. *Environ. Sci. Technol.*, 2003. **37**(9): p. 1850-1858.
73. Brown, G.R., D.L. Bassoni, G.P. Gill, J.R. Fontana, N.C. Wheeler, R.A. Megraw, M.F. Davis, M.M. Sewell, G.A. Tuskan, and D.B. Neale, *Identification of quantitative trait loci influencing wood property traits in loblolly pine (Pinus taeda L.). III. QTL verification and candidate gene mapping*. *Genetics*, 2003. **164**(4): p. 1537-1546.
74. Cada, G.F., *Study begins on effects of sub-lethal stresses during turbine passage*. *Hydro Rev.*, 2003. **XXII**(3): p. 80.
75. Cada, G.F., M.J. Peterson, and M.J. Sale, *Concentrating on dissolved oxygen: alternative regulatory strategies for addressing DO problems*. *Int. Water Power Dam Constr.*, 2003. **55**(6): p. 16-19.
76. Calvert, J.G. and S.E. Lindberg, *A modeling study of the mechanism of the halogen-ozone-mercury homogeneous reactions in the troposphere during the polar spring*. *Atmospheric Environment*, 2003. **37**(32): p. 4467-4481.
77. Chen, J., B.H. Gu, R.A. Royer, and W.D. Burgos, *The roles of natural organic matter in chemical and microbial reduction*. *Sci. Total Environ.*, 2003. **307**(1-3): p. 167-178.
78. Chen, J., E.J. LeBoef, S. Dai, and B.H. Gu, *Fluorescence spectroscopic studies of natural organic matter fractions*. *Chemosphere*, 2003. **50**(5): p. 639-647.
79. Cheng, M.D., *Field measurement comparison of aerosol metals using aerosol beam focused laser-induced plasma spectrometer and reference methods*. *Talanta*, 2003. **61**(2): p. 127-137.
80. Cheng, M.D., B. Malone, and J.M.E. Storey, *Monitoring cellular responses of engine-emitted particles by using a direct air-cell interface deposition technique*. *Chemosphere*, 2003. **53**(3): p. 237-243.
81. Collier, T.K. and S.M. Adams, *Establishing causal relationships between environmental stressors and biological effects in field studies*. *Hum. Ecol. Risk Assess.*, 2003. **9**(1): p. 15-15.

82. Cushman, R.M., *Additivity of state inventories of greenhouse-gas emissions*. Environ. Manage., 2003. **31**(2): p. 292-300.
83. Dale, V.H. and W.M. Adams, *Plant reestablishment 15 years after the debris avalanche at Mount St. Helens, Washington*. Sci. Total Environ., 2003. **313**(103): p. 101-113.
84. Dale, V.H., S. Brown, M.O. Calderon, A.S. Montoya, and R.E. Martinez, *Estimating baseline carbon emissions for the Eastern Panama Canal Watershed*. Mitigation and Adaptation Strategies for Global Change, 2003. **8**(4): p. 323-348.
85. DePaoli, D.W., C. Tsouris, and M.Z.-C. Hu, *EHD micromixing reactor for particle synthesis*. Powder Technol., 2003. **135-136**: p. 302-309.
86. Doll, W.E., T.J. Gamey, L.P. Beard, D.T. Bell, and J.S. Holladay, *Recent advances in airborne survey technology yield performance approaching ground-based surveys*. Leading Edge (Tulsa, OK), 2003. **22**(5): p. 420-422.
87. Drake, S.J., J.F. Weltzin, and P.D. Parr, *Assessment of Non-Native Invasive Plant Species on the United States Department of Energy Oak Ridge National Environmental Research Park*. Castanea, 2003. **68**(1): p. 15-30.
88. Edwards, N.T. and J.S. Riggs, *Automated monitoring of soil respiration: a moving chamber design*. Soil Sci. Soc. Am. J., 2003. **67**(4): p. 1266-1271.
89. Ericksen, J.A., M.S. Gustin, D.E. Schorran, D.W. Johnson, S.E. Lindberg, and J.S. Coleman, *Accumulation of atmospheric mercury in forest foliage*. Atmos. Environ., 2003. **37**(12): p. 1613-1622.
90. Garten, C.T. and T.L. Ashwood, *A landscape level analysis of potential excess nitrogen in East-Central North Carolina, USA*. Water Air Soil Poll., 2003. **146**(1-4): p. 3-21.
91. Garten, C.T., T.L. Ashwood, and V.H. Dale, *Effect of military training on indicators of soil quality at Fort Benning, Georgia*. Ecol. Indicators, 2003. **3**(3): p. 171-180.
92. George, K., R.J. Norby, J.G. Hamilton, and E.H. DeLucia, *Fine-root respiration in a loblolly pine and sweetgum forest growing in elevated CO₂*. New Phytol., 2003. **160**(3): p. 511-522.
93. Ghazanfari, A., L. Tabil, and S. Sokhansanj, *Evaluating a solar dryer for in-shell drying of split pistachio nuts*. Dry. Technol., 2003. **21**(7): p. 1357-1368.
94. Gu, B., Y.-K. Ku, and G.M. Brown, *Treatment of perchlorate-contaminated groundwater using highly selective, regenerable ion-exchange technology: A pilot-scale demonstration*. Fed. Facil. Environ. J., 2003. **14**(1): p. 75-94.
95. Gu, B.H., S.C. Brooks, Y. Roh, and P.M. Jardine, *Geochemical reactions and dynamics during titration of a contaminated groundwater with high uranium, aluminum, and calcium*. Geochim. Cosmochim. Ac., 2003. **67**(15): p. 2749-2761.
96. Gu, B.H. and J. Chen, *Enhanced microbial reduction of Cr(VI) and U(VI) by different natural organic matter fractions*. Geochim. Cosmochim. Acta, 2003. **67**(19): p. 3575-3582.

97. Gu, B.H., W.J. Dong, G.M. Brown, and D.R. Cole, *Complete degradation of perchlorate in ferric chloride and hydrochloric acid under controlled temperature and pressure*. Environ. Sci. Technol., 2003. **37**(10): p. 2291-2295.
98. Gu, L.H., *Comment on "Climate and management contributions to recent trends in US agricultural yields"*. Science, 2003. **300**(5625): p. 1505b.
99. Gu, L.H., D.D. Baldocchi, S.C. Wofsy, J.W. Munger, J.J. Michalsky, S.P. Urbanski, and T.A. Boden, *Response of a deciduous forest to the Mount Pinatubo eruption: Enhanced photosynthesis*. Science, 2003. **299**(5615): p. 2035-2038.
100. Gunter, L.E., A.S. Black, S. Ratnayeke, G.A. Tuskan, and S.D. Wulschleger, *Assessment of genetic similarity among 'Alamo' switchgrass seed lots using RAPD markers*. Seed Sci. Technol., 2003. **31**(3): p. 681-689.
101. Gunter, L.E., R.F. Kopp, R.P. McCord, and G.A. Tuskan, *Analysis of sex-linked, sequence-characterized amplified region markers in Salix eriocephala*. Can. J. Forest Res., 2003. **33**(9): p. 1785-1790.
102. Gunter, L.E., G.T. Roberts, K. Lee, F.W. Larimer, and G.A. Tuskan, *The development of two flanking SCAR markers linked to a sex determination locus in Salix viminalis L.* J. Hered., 2003. **94**(2): p. 185-189.
103. Gustin, M.S., M.F. Coolbaugh, M.A. Engle, B.C. Fitzgerald, R.E. Keislar, S.E. Lindberg, D.M. Nacht, J. Quashnick, J.J. Rytuba, C. Sladek, H. Zhang, and R.E. Zehner, *Atmospheric mercury emissions from mine wastes and surrounding geologically enriched terrains*. Environ. Geol., 2003. **43**(3): p. 339-351.
104. Hargrove, W.W., F.M. Hoffman, and B.E. Law, *New analysis reveals representativeness of the AmeriFlux Network*. EOS Trans AGU, 2003. **84**(48): p. 529,535.
105. Houser, J.N., D.L. Bade, J.J. Cole, and M.L. Pace, *The dual influences of dissolved organic carbon on hypolimnetic metabolism: organic substrate and photosynthetic reduction*. Biogeochemistry, 2003. **64**(2): p. 247-269.
106. Hoyt, P.R., M.J. Doktycz, K.L. Beattie, and M.S. Greeley, *DNA Microarrays detect 4-nonylphenol-induced alterations in gene expression during zebrafish early development*. Ecotoxicology, 2003. **12**(6): p. 469-474.
107. Huston, M.A., J.H. Brown, A.P. Allen, and J.F. Gillooly, *Heat and biodiversity*. Science, 2003. **299**(5606): p. 512-513.
108. Huston, M.A. and G. Marland, *Carbon management and biodiversity*. J. Environ. Manage., 2003. **67**(1): p. 77-86.
109. Jager, H.I. and K.A. Rose, *Designing optimal flow patterns for fall Chinook salmon in a central valley, California, river*. North Am. J. Fish. Manage., 2003. **23**(1): p. 1-21.
110. Johnson, D.W., J.A. Benesch, M.S. Gustin, D.S. Schorran, S.E. Lindberg, and J.S. Coleman, *Experimental evidence against diffusion control of Hg evasion from soils*. Sci. Total Environ., 2003. **304**(1-3): p. 175-184.

111. Johnson, D.W., D.E. Todd, and V.R. Tolbert, *Changes in ecosystem carbon and nitrogen in a loblolly pine plantation over the first 18 years*. Soil Sci. Soc. Am. J., 2003. **67**(5): p. 1594-1601.
112. Jones, D., S. Domotor, K. Higley, D. Kocher, and G. Bilyard, *Principles and issues in radiological ecological risk assessment*. J. Environ. Radioact., 2003. **66**(1-2): p. 19-39.
113. Jones, D.S., *The use of background data in risk assessments: Introductory comments*. Hum. Ecol. Risk Assess., 2003. **9**(7): p. 1595-1597.
114. Jones, J., E.H. Stanley, and P.J. Mulholland, *Long-term decline in carbon dioxide supersaturation in rivers across the contiguous United States*, art. no. 1495. Geophys. Res. Lett., 2003. **30**(10): p. 1495.
115. Jones, J.B., E.H. Stanley, and P.J. Mulholland, *Increased alkalinity in the Mississippi*. Science, 2003. **302**(5647): p. 985-986.
116. Kamolpornwijiit, W., L. Liang, O.R. West, G.R. Moline, and A.B. Sullivan, *Preferential flow path development and its influence on long-term PRB performance: column study*. J. Contam. Hydrol., 2003. **66**(3-4): p. 161-178.
117. Kates, R.W. and T.J. Wilbanks, *Making the global local: Responding to climate change concerns from the ground up*. Environment, 2003. **45**(3): p. 12-23.
118. Kszos, L.A., J.J. Beauchamp, and A.J. Stewart, *Toxicity of lithium to three freshwater organisms and the antagonistic effect of sodium*. Ecotoxicology, 2003. **12**(5): p. 427-437.
119. Kszos, L.A. and A.J. Stewart, *Review of lithium in the aquatic environment: Distribution in the united states, toxicity and case example of groundwater contamination*. Ecotoxicology, 2003. **12**(5): p. 439-447.
120. Kszos, L.A., S.S. Talmage, G.W. Morris, B.K. Konetsky, and T. Rottero, *Derivation of aquatic screening benchmarks for 1,2-dibromoethane*. Arch. Environ. Contam. Toxicol., 2003. **45**(1): p. 66-71.
121. Lee, D.W., P.K. Hopke, D.H. Rasmussen, H.C. Wang, and R. Mavliev, *Comparison of experimental and theoretical heterogeneous nucleation on ultrafine carbon particles*. J. Phys. Chem. B, 2003. **107**(50): p. 13813-13822.
122. Lee, S., L.Y. Liang, D. Riestenberg, O.R. West, C. Tsouris, and E. Adams, *CO₂ hydrate composite for ocean carbon sequestration*. Environ. Sci. Technol., 2003. **37**(16): p. 3701-3708.
123. Lee, S.M., JW; Moon, HS, *Heavy metals in the bed and suspended sediments of Anyang River, Korea: Implications for water quality*. Environ. Geochem. Hlth., 2003. **25**(4): p. 433-452.
124. Lenczewski, M., P. Jardine, L. McKay, and A. Layton, *Natural attenuation of trichloroethylene in fractured shale bedrock*. J. Contam. Hydrol., 2003. **64**(3-4): p. 151-168.

125. Lewandowski, I., J.M.O. Scurlock, E. Lindvall, and M. Christou, *The development and current status of perennial rhizomatous grasses as energy crops in the US and Europe*. Biomass and Bioenergy, 2003. **25**(4): p. 355-361.
126. Li, X.N., E. Hagaman, C. Tsouris, and J.W. Lee, *Removal of carbon dioxide from flue gas by ammonia carbonation in the gas phase*. Energy Fuels, 2003. **17**(1): p. 69-74.
127. Liang, L.Y., A.B. Sullivan, O.R. West, G.R. Moline, and W. Kamolpornwijit, *Predicting the precipitation of mineral phases in permeable reactive barriers*. Environ. Eng. Sci., 2003. **20**(6): p. 635-653.
128. Liu, X., S.M. Tiquia, G. Holguin, L. Wu, S.C. Nold, D. A.H., K. Luo, A.V. Palumbo, J.M. Tiedje, and J. Zhou, *Molecular Diversity of Denitrifying Genes in Continental Margin Sediments within the Oxygen-Deficient Zone off the Pacific Coast of Mexico*. Appl. Environ. Microbiol., 2003. **69**(6): p. 3549-3560.
129. Liu, X.D., C.E. Bagwell, L.Y. Wu, A.H. Devol, and J.H. Zhou, *Molecular diversity of sulfate-reducing bacteria from two different continental margin habitats*. Appl. Environ. Microbiol., 2003. **69**(10): p. 6073-6081.
130. Liu, Y.Q., J.Z. Zhou, M.V. Omelchenko, A.S. Beliaev, A. Venkateswaran, J. Stair, L.Y. Wu, D.K. Thompson, D. Xu, I.B. Rogozin, E.K. Gaidamakova, M. Zhai, K.S. Makarova, E.V. Koonin, and M.J. Daly, *Transcriptome dynamics of Deinococcus radiodurans recovering from ionizing radiation*. Proc. Natl. Acad. Sci. U. S. A., 2003. **100**(7): p. 4191-4196.
131. Mailloux, B.J., M.E. Fuller, G.F. Rose, T.C. Onstott, M.F. DeFlaun, E. Alvarez, C. Hemingway, R.B. Hallet, T.J. Phelps, and T. Griffin, *A modular injection system, multilevel sampler, and manifold for tracer tests*. Ground Water, 2003. **41**(6): p. 816-827.
132. Marland, E. and G. Marland, *The treatment of long-lived, carbon-containing products in inventories of carbon dioxide emissions to the atmosphere*. Environ. Sci. & Policy, 2003. **6**(2): p. 139-152.
133. Marland, G., R.A.S. Pielke, M. Apps, R. Avissar, R.A. Betts, K.J. Davis, P.C. Frumhoff, S.T. Jackson, L.A. Joyce, P. Kauppi, J. Katzenberger, K.G. MacDicken, R.P. Nielson, J.O. Niles, D.D.S. Niyogi, R.J. Norby, N. Pena, N. Sampson, and Y. Xue, *The climatic impact of land surface change and carbon management, and the implications for climate-change mitigation policy*. Clim. Policy, 2003. **3**: p. 149-157.
134. Marland, G., T.O. West, G. Schlamadinger, and L. Canella, *Managing soil organic carbon in agriculture: the net effect on greenhouse gas emissions*. Tellus, Ser. B, Chem. Phys. Meteorol., 2003. **55**(2): p. 613-621.
135. Martin, M., B. Evans, H. O'Neill, and J. Woodward, *Laser-induced breakdown spectroscopy used to detect palladium and silver metal dispersed in bacterial cellulose membranes*. Appl. Optics, 2003. **42**(30): p. 6174-6178.
136. Martin, M.Z., S.D. Wullschleger, C.T. Garten, and A.V. Palumbo, *Laser-induced breakdown spectroscopy for the environmental determination of total carbon and nitrogen in soils*. Appl. Opt., 2003. **42**(12): p. 2072-2077.

137. Matamala, R., M.A. Gonzalez-Meler, J.D. Jastrow, R.J. Norby, and W.H. Schlesinger, *Impacts of Fine Root Turnover on Forest NPP and Soil C Sequestration Potential*. Science, 2003. **302**(5649): p. 1385-1387.
138. Mayes, M.A., P.M. Jardine, T.L. Mehlhorn, B.N. Bjornstad, T. Ladd, and J.M. Zachara, *Transport of multiple tracers in variably saturated humid region structured soils and semi-arid region laminated sediments*. J. Hydrol., 2003. **275**(3-4): p. 141-161.
139. McCarthy, J.F., L.W. Burrus, and V.R. Tolbert, *Bioaccumulation of benzo(a)pyrene from sediment by fathead minnows: Effects of organic content, resuspension and metabolism*. Archives of Environmental Contamination and Toxicology, 2003. **45**(3): p. 364-370.
140. McLaughlin, S.B., S.D. Wullschleger, and M. Nosal, *Diurnal and seasonal changes in stem increment and water use by yellow poplar trees in response to environmental stress*. Tree Physiol., 2003. **23**(16): p. 1125-1136.
141. Moser, D.P., T.C. Onstott, J.K. Fredrickson, F.J. Brockman, D.L. Balkwill, G.R. Drake, S.M. Pfiffner, D.C. White, K. Takai, L.M. Pratt, J. Fong, B.S. Lollar, G. Slater, T.J. Phelps, N. Spoelstra, M. DeFlaun, G. Southam, A.T. Welty, B.J. Baker, and J. Hoek, *Temporal shifts in the geochemistry and microbial community structure of an ultradeep mine borehole following isolation*. Geomicrobiol. J., 2003. **20**(6): p. 517-548.
142. Norby, R.J., J.S. Hartz-Rubin, and M.J. Verbrugge, *Phenological responses in maple to experimental atmospheric warming and CO₂ enrichment*. Glob. Change Biol., 2003. **9**(12): p. 1792-1801.
143. Norby, R.J., J.D. Sholtis, C.A. Gunderson, and S.S. Jawdy, *Leaf Dynamics of a deciduous forest canopy: no response to elevated CO₂*. Oecologia, 2003. **136**(4): p. 574-584.
144. Oladosu, G., *An almost ideal demand system model of household vehicle fuel expenditure allocation in the United States*. Energy J., 2003. **24**(1): p. 1-21.
145. O'Neill, E.G., D.W. Johnson, J. Ledford, and D.E. Todd, *Acute seasonal drought does not permanently alter mass loss and nitrogen dynamics during decomposition of red maple (*Acer rubrum* L.) litter*. Glob. Change Biol., 2003. **9**(1): p. 117-123.
146. Onstott, T.C., D.P. Moser, S.M. Pfiffner, J.K. Fredrickson, F.J. Brockman, T.J. Phelps, D.C. White, A. Peacock, D. Balkwill, R. Hoover, L.R. Krumholz, M. Borscik, T.L. Kieft, and R. Wilson, *Indigenous and contaminant microbes in ultradeep mines*. Environ. Microbiol., 2003. **5**(11): p. 1168-1191.
147. Pace, M.N., M.A. Mayes, P.M. Jardine, T.L. Mehlhorn, J.M. Zachara, and B.N. Bjornstad, *Quantifying the Effects of Small-Scale Heterogeneities on Flow and Transport in Undisturbed Cores from the Hanford Formation*. Vadose Zone J, 2003. **2**(4): p. 664-676.
148. Pan, F.F., C.D. Peters-Lidard, and M.J. Sale, *An analytical method for predicting surface soil moisture from rainfall observations - art. no. 1314*. Water Resour. Res., 2003. **39**(11): p. 1314-1314.

149. Park, E. and H.B. Zhan, *Hydraulics of horizontal wells in fractured shallow aquifer systems*. J. Hydrol., 2003. **281**(1-2): p. 147-158.
150. Parker, J.C., *Physical processes affecting natural depletion of volatile chemicals in soil and groundwater*. Vadose Zone J., 2003. **2**: p. 222-230.
151. Parson, E.A., R.W. Corell, E.J. Barron, V. Burkett, A. Janetos, L. Joyce, T.R. Karl, M.C. MacCracken, J. Melillo, M.G. Morgan, D.S. Schimel, and T. Wilbanks, *Understanding climatic impacts, vulnerabilities, and adaptation in the United States: Building a capacity for assessment*. Clim. Change, 2003. **57**(1-2): p. 9-42.
152. Perlack, R.D. and A.F. Turhollow, *Feedstock cost analysis of corn stover residues for further processing*. Energy, 2003. **28**(14): p. 1395-1403.
153. Phillips, D.H., B. Gu, D.B. Watson, and Y. Roh, *Impact of sample preparation on mineralogical analysis of zero-valent iron reactive barrier materials*. J. Environ. Qual., 2003. **32**(4): p. 1299-1305.
154. Phillips, D.H., D.B. Watson, Y. Roh, and B. Gu, *Mineralogical characteristics and transformations during long-term operation of a zerovalent iron reactive barrier*. J. Environ. Qual., 2003. **32**(6): p. 2033-2045.
155. Reid, C.D., H. Maherali, H. Johnson, S.D. Smith, S.D. Wullschleger, and R.B. Jackson, *On the relationship between stomatal characters and atmospheric CO₂*. Geophys. Res. Lett., 2003. **30**(19): p. art.no. 1983.
156. Riestenberg, D., O. West, S. Lee, S. McCallum, and T.J. Phelps, *Sediment surface effects on methane hydrate formation and dissociation*. Mar. Geol., 2003. **198**(1-2): p. 181-190.
157. Roh, Y., C.L. Zhang, H. Vali, R.J. Lauf, J. Zhou, and T.J. Phelps, *Biogeochemical and environmental factors in Fe biomineralization: Magnetite and siderite formation*. Clay Clay Min., 2003. **51**(1): p. 83-95.
158. Romanek, C.S., C.L.L. Zhang, Y.L. Li, J. Horita, H. Vali, D.R. Cole, and T.J. Phelps, *Carbon and hydrogen isotope fractionations associated with dissimilatory iron-reducing bacteria*. Chem. Geol., 2003. **195**(1-4): p. 5-16.
159. Satapanajaru, T., P.J. Shea, S.D. Comfort, and Y. Roh, *Green rust and iron oxide formation influences metolachlor dechlorination during zerovalent iron treatment*. Environ. Sci. Technol., 2003. **37**(22): p. 5219-5227.
160. Schroeder, W.H., A. Steffen, K. Scott, T. Bender, E. Prestbo, R. Ebinghaus, J.Y. Lu, and S.E. Lindberg, *Summary Report: first international Arctic atmospheric mercury research workshop*. Atmos. Environ., 2003. **37**: p. 2551-2555.
161. Schweitzer, M., *Measuring state energy accomplishments*. Conservation Update (online), 2003.
162. Schweitzer, M. and B. Tonn, *Non-energy benefits of the US Weatherization Assistance Program: a summary of their scope and magnitude*. Appl. Energy, 2003. **76**(4): p. 321-335.
163. Sedjo, R.A. and G. Marland, *Inter-trading permanent emissions credits and rented temporary carbon emissions offsets: some issues and alternatives*. Clim. Policy, 2003. **3**(4): p. 435-444.

164. Shoemaker, S.P. and L.L. Wright, *Feedstock production, genetic modification, and processing*. Appl. Biochem. Biotech., 2003. **105**: p. 3-4.
165. Shrader, E.A., T.R. Henry, M.S. Greeley, and B.P. Bradley, *Proteomics in zebrafish exposed to endocrine disrupting chemicals*. Ecotoxicology, 2003. **12**(6): p. 485-488.
166. Sinsabaugh, R.S.-C., K; Long, T; Osgood, MP; Neher, DA; Zak, DR; Norby, RJ, *Soil microbial activity in a Liquidambar plantation unresponsive to CO₂-driven increases in primary production*. Appl. Soil Ecol., 2003. **24**(3): p. 263-271.
167. Smith, J.G., *Recovery of the benthic macroinvertebrate community in a small stream after long-term discharges of fly ash*. Environ. Manage., 2003. **32**(1): p. 77-92.
168. Sokhansanj, S., J. Cushman, and L.L. Wright, *Collection and delivery of biomass for fuel and power production*. CIGR Electronic Journal, 2003. **V**.
169. Sokhansanj, S., H. Khoshtaghaza, G.J. Schoenau, E.A. Arinze, and L.G. Tabil, *Heat and moisture transfer and quality changes in containerized alfalfa cubes during transport*. T. ASAE, 2003. **46**(2): p. 423-432.
170. Stewart, A.J. and M.G. Ryon, *Supercharged snails for stream ecology & water-quality studies*. American Biology Teacher, 2003. **65**(8): p. 620-626.
171. Stewart, M.A., P.M. Jardine, M.O. Barnett, T.L. Mehlhorn, L.K. Hyder, and L.D. McKay, *Influence of soil geochemical and physical properties on the sorption and bioaccessibility of chromium(III)*. J. Environ. Qual., 2003. **32**(1): p. 129-137.
172. Stewart, M.A., P.M. Jardine, C.C. Brandt, M.O. Barnett, S.E. Fendorf, L.D. McKay, T.L. Mehlhorn, and K. Paul, *Effect of Contaminant Concentration, Aging, and Soil Properties on the Bioaccessibility of Cr(III) and Cr(VI) in Soil*. Soil Sediment Contam, 2003. **12**(1): p. 1-21.
173. Stirling, B., Z.K. Yang, L.E. Gunter, G.A. Tuskan, and H.D. Bradshaw, *Comparative sequence analysis between orthologous regions of the Arabidopsis and Populus genomes reveals substantial synteny and microcollinearity*. Can. J. For. Res., 2003. **33**(11): p. 2245-2251.
174. Subramaniam, K., V. Vithayaveroj, S. Yiacoumi, and C. Tsouris, *Copper uptake by silica and iron oxide under high surface coverage conditions: Surface charge and sorption equilibrium modeling*. J. Colloid Interface Sci., 2003. **268**(1): p. 12-22.
175. Sugiyuama, M., M. Annaka, M. Hara, M.E. Vigild, and G.D. Wignall, *Small-angle scattering study of mesoscopic structures in charged gel and their evolution on dehydration*. J. P. Chem. B, 2003. **107**(26): p. 6300-6308.
176. Sullivan, A.B., H.I. Jager, and R. Myers, *Modeling white sturgeon movement in a reservoir: the effect of water quality and sturgeon density*. Ecol. Model., 2003. **167**(1-2): p. 97-114.
177. Tanko, M.H., C. D.J., and S. Sokhansanj, *Effects of drying temperature and storage on parthenolide concentration of Feverfew leaves (Tanacetum parthenium L.)*. J. Nutraceuticals, 2003. **4**(1): p. 27-37.

178. Thomas, S.A., H.M. Valett, J.R. Webster, and P.J. Mulholland, *A regression approach to estimating reactive solute uptake in advective and transient storage zones of stream ecosystems*. *Adv. Water Resour.*, 2003. **26**(9): p. 965-976.
179. Tiquia, S.M., *Evaluation of organic matter and nutrient composition of partially decomposed and composted spent pig litter*. *Environ. Technol.*, 2003. **24**(1): p. 97-107.
180. Tonn, B., *Concrete and clay: Reworking nature in New York City, by Gandy, M (book review)*. *J. Plan. Educ. Res.*, 2003. **22**(3): p. 319-320.
181. Tonn, B., *Using informants' judgements to infer attributes in dynamic domains*. *Field Methods*, 2003. **15**(2): p. 202-217.
182. Tonn, B., *What futures for social science?* *Futures*, 2003. **35**(6): p. 547-551.
183. Tonn, B., *An equity-first, risk-based framework for managing global climate change*. *Global Environ. Chang.*, 2003. **13**(4): p. 295-306.
184. Tonn, B., R. Schmoyer, and S. Wagner, *Weatherizing the homes of low-income home energy assistance program clients: a programmatic assessment*. *Energy Policy*, 2003. **31**(8): p. 735-744.
185. Tonn, B.E., *The future of futures decision making*. *Futures*, 2003. **35**(6): p. 673-688.
186. Tonn, B.E., S.M. Schexnayder, J.H. Peretz, S. Das, and G. Waidley, *An assessment of waste issues associated with the production of new, lightweight, fuel-efficient vehicles*. *J. Cleaner Production*, 2003. **11**(7): p. 753-765.
187. Tran, L.T., C.G. Knight, R.V. O'Neill, E.R. Smith, and M. O'Connell, *Self-organizing maps for integrated environmental*. *Environ. Manage*, 2003. **31**(6): p. 822-835.
188. Treves, D.S., B. Xia, J. Zhou, and J.M. Tiedje, *A two-species test of the hypothesis that spatial isolation influences microbial diversity in soil*. *Microb. Ecol.*, 2003. **45**(1): p. 20-28.
189. Tsouris, C., C. Culbertson, D. DePaoli, S. Jacobson, V. de Almeida, and J. Ramsey, *Electrohydrodynamic mixing in microchannels*. *AIChE J.*, 2003. **49**(8): p. 2181-2186.
190. Tsouris, C. and J.V. Porcelli, *Process Intensification - Has Its Time Finally Come?* *Chemical Eng. Prog.*, 2003. **99**(10): p. 50-55.
191. Turner, M.G., W.H. Romme, R.A. Reed, and G.A. Tuskan, *Post-fire aspen seedling recruitment across the Yellowstone (USA) Landscape*. *Landscape Ecol.*, 2003. **18**(2): p. 127-140.
192. Vithayaveroj, V., S. Yiacoumi, and C. Tsouris, *Modification of surface forces by metal ion adsorption*. *J. Disper. Sci. Technol.*, 2003. **24**(3-4): p. 517-525.
193. Walsh, M.E., D.G.D. Ugarte, H. Shapouri, and S.P. Slinsky, *Bioenergy crop production in the United States - potential quantities, land use changes, and economic impacts on the agricultural sector*. *Environ. Resour. Econ.*, 2003. **24**(4): p. 313-333.

194. Wang, W., B.H. Gu, L.Y. Liang, and W. Hamilton, *Fabrication of two- and three-dimensional silica nanocolloidal particle*. J. Phys. Chem. B, 2003. **107**(15): p. 3400-3404.
195. Wang, W., B.H. Gu, L.Y. Liang, and W.A. Hamilton, *Fabrication of near-infrared photonic crystals using highly-monodispersed submicrometer SiO₂ spheres*. J. Phys. Chem. B, 2003. **107**(44): p. 12113-12117.
196. Webster, J.R., P.J. Mulholland, J.L. Tank, H.M. Valett, W.K. Dodds, B.J. Peterson, W.D. Bowden, C.N. Dahm, S. Findlay, S.V. Gregory, N.B. Grimm, S.K. Hamilton, S.L. Johnson, E. Marti, W.H. McDowell, J.L. Meyer, D.D. Morrall, S.A. Thomas, and W.M. Wollheim, *Factors affecting ammonium uptake in streams -- an inter-biome perspective*. Freshwater Biol., 2003. **48**: p. 1329-1352.
197. West, O.R., C. Tsouris, S. Lee, S.D. McCallum, and L.Y. Liang, *Negatively buoyant CO₂-hydrate composite for ocean carbon sequestration*. AIChE J., 2003. **49**(1): p. 283-285.
198. West, T.O. and G. Marland, *Net carbon flux from agriculture: Carbon emissions, carbon sequestration, crop yield, and land-use change*. Biogeochemistry, 2003. **63**(1): p. 73-83.
199. West, T.O. and N. Pena, *Determining thresholds for mandatory reporting of greenhouse gas emissions*. Environ. Sci. Technol., 2003. **37**(6): p. 1057-1060.
200. Wilbanks, T.J., *Integrating climate change and sustainable development in a place-based context*. Clim. Policy, 2003. **3**(Suppl 1): p. S147-S154.
201. Wilbanks, T.J., S.M. Kane, P.N. Leiby, R.D. Perlack, C. Settle, J.F. Shogren, and J.B. Smith, *Possible responses to global climate change - Integrating mitigation and adaptation*. Environment, 2003. **45**(5): p. 28-38.
202. Williams, M.A. and C.C. Coutant, *Modification of schooling behavior in larval atherinid fish *Atherina mochon* by heat exposure of eggs and larvae*. T. Am.Fish.Soc., 2003. **132**(4): p. 638-645.
203. Williams, R.S., D.E. Lincoln, and R.J. Norby, *Development of gypsy moth larvae feeding on red maple saplings at elevated CO₂ and temperature*. Oecologia, 2003. **137**(1): p. 114-122.
204. Wolfe, A.K., *Policy and Public Responsibility (editorial)*. SIM News, 2003. **53**(2): p. 62-63.
205. Wolfe, A.K., *Policy and Public Responsibility (editorial)*. SIM News, 2003. **53**(3): p. 112-113.
206. Wolfe, A.K. and D.J. Bjornstad, *Making decisions about hazardous waste remediation when even considering a remediation technology is controversial*. Environ. Sci. Technol., 2003. **37**(8): p. 1485-1492.
207. Wullschleger, S.D. and S.P. Difazio, *Emerging use of gene expression microarrays in plant physiology*. Compar. Funct. Genom., 2003. **4**(2): p. 216-224.
208. Yan, T.F., M.W. Fields, L.Y. Wu, Y.G. Zu, J.M. Tiedje, and J.Z. Zhou, *Molecular diversity and characterization of nitrite reductase gene fragments (*nirK* and *nirS*) from nitrate- and uranium- contaminated groundwater*. Environ. Microbiol., 2003. **5**(1): p. 13-24.

209. Yang, J.K., M.O. Barnett, P.M. Jardine, and S.C. Brooks, *Factors controlling the bioaccessibility of arsenic (V) and lead (II) in soil*. Soil Sediment Contam, 2003. **12**(2): p. 165-179.
210. Yang, K.L., S. Yiacoumi, and C. Tsouris, *Electrosorption capacitance of nanostructured carbon aerogel obtained by cyclic voltammetry*. J. Electroanal. Chem., 2003. **540**: p. 159-167.
211. Yost, C., L.J. Hauser, F.W. Larimer, D.K. Thompson, A.S. Beliaev, J. Zhou, Y. Xu, and D. Xu, *A computational study of Shewanella oneidensis MR-1: structural prediction and functional inference of hypothetical proteins*. OMICS, 2003. **7**(2): p. 177-91.
212. Zak, D.R., W.E. Holmes, A.C. Finzi, R.J. Norby, and W.H. Schlesinger, *Soil nitrogen cycling under elevated CO₂: A synthesis of forest face experiments*. Ecol. Appl., 2003. **13**(6): p. 1508-1514.
213. Zhou, J.H., *Microarrays for bacterial detection and microbial community analysis*. Curr. Opin. Microbiol., 2003. **6**(3): p. 288-294.
214. Zhou, J.Z., B.C. Xia, H.S. Huang, D.S. Treves, L.J. Hauser, R.J. Mural, A.V. Palumbo, and J.M. Tiedje, *Bacterial phylogenetic diversity and a novel candidate division of two humid region, sandy surface soils*. Soil Biol. Biochem., 2003. **35**(7): p. 915-924.

Patents (2)

215. Edwards, N.T. and J.S. Riggs, Automated soil-gas monitoring chamber, July 29, 2003, Patent No.US 6,598,458 B1
216. West, O.R., C. Tsouris, and L. Liang, Method and apparatus for efficient injection of CO₂ in Oceans, Jul, 2003, Patent No.6,598,407

Reports (90)

217. Abernethy, C.S., B.G. Amidan, and G.F. Cada, Fish Passage Through a Simulated Horizontal Bulb Turbine Pressure Regime: A Supplement to "Laboratory Studies of the Effects of Pressure and Dissolved Gas Supersaturation on Turbine-Passed Fish". PNNL-13470-B. Jul, 2003, Richland: Pacific Northwest National Laboratory
218. Berry, L.G. and M. Schweitzer, Metaevaluation of National Weatherization Assistance Program based on state studies, 1993-2002, ORNL/CON-488. Feb, 2003, Oak Ridge: Oak Ridge National Laboratory
219. Bevelhimer, M.S. and C.C. Coutant, Impacts of intake flow rate on fish populations and communities, EPRI Tech. Rept. 1005178. Mar, 2003, Palo Alto: EPRI
220. Bibly, R.E.B., P.A.; Coutant, C.C.; Goodman, D.; Gramling, R.B.; Hanna, S.S.; Loudenslager, E.J.; McDonald, L.L.; Philipp, D.P.; Riddell, B.E., A Review of Strategies for Recovering Tributary Habitat, R03-116821. 2003,
221. Bilby, R.E.B., P.A.; Coutant, C.C.; Goodman, D.; Gramling, R.B.; Hanna, S.; Loudenslager, E.; McDonald, L.; Philipp, D.; Riddell, B.E.; Whitney, R.R., Review of Flow Augmentation: Update and Clarification, R03-117183. 2003,

222. Bilby, R.E.B., P.A.; Coutant, C.C.; Goodman, D.; Gramling, R.B.; Hanna, S.; Louderslager, E.; McDonald, L.; Philipp, D.; Whitney, R.R., Review of Giorgi et al. Report "Mainstem Passage Strategies in the Columbia River System: Transportation, Spill, and Flow Augmentation", R03-117181.2003,
223. Bisson, P.A., C.C. Coutant, D. Goodman, R. Gramling, D.P. Lettermaier, J. Lichatowich, E. Louderslager, W.J. Liss, L. McDonald, D. Philipp, and B.E. Riddell, Model Synthesis Report: An Analysis of Decision Support Tools Used in Columbia River Basin Salmon Management, R03-117168.2003,
224. Bisson, P.A., C.C. Coutant, D. Goodman, R. Gramling, D.P. Lettermaier, J.A. Lichatowich, E. Louderslager, W.J. Liss, L. McDonald, D. Philipp, and B.E. Riddell, A Review of Salmon Recovery Strategies for the Columbia River Basin, R03-117178.2003,
225. Bisson, P.A., C.C. Coutant, D. Goodman, R. Gramling, D.P. Lettermaier, J.A. Lichatowich, E. Louderslager, W.J. Liss, L. McDonald, D. Philipp, and B.E. Riddell, Review of Lower Snake River Flow Augmentation Studies, R03-117176.2003,
226. Bisson, P.A., C.C. Coutant, D. Goodman, R. Gramling, D.P. Lettermaier, J.A. Lichatowich, E. Louderslager, W.J. Liss, L. McDonald, D. Philipp, and B.E. Riddell, Review of the Biological Objectives in the 2000 Fish and Wildlife Program, R03-117177.2003,
227. Bisson, P.A., C.C. Coutant, D. Goodman, R. Gramling, E. Lichatowich, E. Louderslager, W. Liss, L. McDonald, D. Philipp, and B.E. Riddell, The Columbia River Estuary and the Columbia River Basin Fish and Wildlife Program, R03-117166.2003,
228. Bisson, P.A., C.C. Coutant, D. Goodman, R. Gramling, J. Lichatowich, J. Louderslager, W.M. Liss, L., D. Philipp, B.E. Riddell, and R.R. Whitney, Review of Studies of Fish Survival in Spill at the Dalles Dam, R03-117162.2003,
229. Bisson, P.A., C.C. Coutant, D. Goodman, R. Gramling, J. Lichatowich, E. Louderslager, W.J. Liss, L. McDonald, D. Philipp, and B.E. Riddell, Consistency of the Council's Artificial Production Policies and Implementation Strategies with Multi-Species Framework Principles and Scientific Review Team Guidelines, R03-117164.2003,
230. Bisson, P.A., C.C. Coutant, D. Goodman, R. Gramling, J. Lichatowich, E. Louderslager, W.J. Liss, L. McDonald, D. Philipp, and B.E. Riddell, Recommendations for the Design of Hatchery Monitoring Programs and the Organization of Data Systems, R03-117165.2003,
231. Bisson, P.A., C.C. Coutant, D. Goodman, R. Gramling, J.A. Lichatowich, E. Louderslager, W.J. Liss, L. McDonald, D. Philipp, and B. Riddell, Review of the Draft Performance Standards and Indicators for Artificial Production in the Northwest Power Planning Council's Artificial Production Review, R03-117163.2003,

232. Bisson, P.A., C.C. Coutant, D. Goodman, R. Gramling, J.A. Lichatowich, E. Loudenslager, W.J. Liss, L. McDonald, D. Philipp, B.E. Riddell, and R.R. Whitney, Review of the National Marine Fisheries Service Draft Cumulative Risk Analysis Addendum: "An Assessment of Lower Snake River Hydrosystem Alternatives on Survival and Recovery of Snake River Salmonids", R03-117160.2003,
233. Bisson, P.A., C.C. Coutant, D. Goodman, R. Gramling, J.A. Lichatowich, E. Louderslager, W.J. Liss, L. McDonald, D. Philipp, B.E. Riddell, and R.R. Whitney, Review of the National Marine Fisheries Service Draft Cumulative Risk Analysis Addendum, R03-117161.2003,
234. Bisson, P.A., C.C. Coutant, D. Goodman, R.B. Gramling, D.P. Lettenmaier, J.A. Lichatowich, E. Louderslager, W.J. Liss, L. McDonald, D. Philipp, and B.J. Riddell, 2001 Emergency Surface Spill, R03-117171.2003,
235. Bisson, P.A., C.C. Coutant, D. Goodman, R.B. Gramling, D.P. Lettenmaier, J.A. Lichatowich, E. Louderslager, W.J. Liss, L. McDonald, D. Philipp, and B.J. Riddell, Hatchery Surplus Review, R03-117173.2003,
236. Bisson, P.A., C.C. Coutant, D. Goodman, J.A. Lichatowich, W.J. Liss, L. McDonald, P. Mundy, B.E. Riddell, R.R. Whitney, and R.N. Williams, Report of the Independent Scientific Advisory Board Review of the U.S. Army Corps of Engineers' Capital Construction Program. Part III. Overview of the U.S. Army Corps of Engineers' Capital Construction Program, R03-117156.2003,
237. Bisson, P.A., C.C. Coutant, D. Goodman, J.A. Lichatowich, W.J. Liss, L. McDonald, P. Mundy, B.E. Riddell, R.R. Whitney, and R.N. Williams, Looking for Common Ground: Comparison of Recent Reports Pertaining to Salmon Recovery in the Columbia River Basin, R03-117153.2003,
238. Bisson, P.A., C.C. Coutant, D. Goodman, J.A. Lichatowich, W.J. Liss, L. McDonald, P. Mundy, B.E. Riddell, R.R. Whitney, and R.N. Williams, Recommendation for Stable Flows in the Hanford Reach During the Time When Juvenile Fall Chinook Are Present Each Spring, R03-117140.2003,
239. Bisson, P.A., C.C. Coutant, D. Goodman, J.A. Lichatowich, W.J. Liss, L. McDonald, P. Mundy, B.E. Riddell, R.R. Whitney, and R.N. Williams, Report of the Independent Advisory Board Review of the U.S. Army Corps of Engineers' Capital Construction Program. Part III. Adult Passage, R03-117147.2003,
240. Bisson, P.A., C.C. Coutant, D. Goodman, J.A. Lichatowich, W.J. Liss, L. McDonald, P. Mundy, B.E. Riddell, R.R. Whitney, and R.N. Williams, Independent Scientific Advisory Board Review of "Development of a Regional Framework for Fish and Wildlife Restoration in the Columbia River Basin", R03-117141.2003,

241. Bisson, P.A., C.C. Coutant, D. Goodman, J.A. Lichatowich, W.J. Liss, L. McDonald, P. Mundy, B.E. Riddell, R.R. Whitney, and R.N. Williams, Review of the U.S. Army Corps of Engineers' Capital Construction Program. Part II. B. Dissolved Gas Abatement Program, R03-117144.2003,
242. Bisson, P.A., C.C. Coutant, D. Goodman, J.A. Lichatowich, W.J. Liss, L. McDonald, P. Mundy, B.E. Riddell, R.R. Whitney, and R.N. Williams, ISAB Review of "1998 Draft Annual Report to the Oregon Department of Environmental Quality" (December 1, 1998), R03-117145.2003,
243. Bisson, P.A., C.C. Coutant, D. Goodman, W.J. Liss, L. McDonald, B.E. Riddell, and R.R. Whitney, Lake Pend Oreille Kokanee Net Pen Alternative: Response to Question from the Northwest Power Planning Council, R03-117158.2003,
244. Bjornstad, D.J., Economic incentives in the purchase and use of energy-using products: past practices and new developments, ORNL/TM-2003/55. Jan, 2003, Oak Ridge: Oak Ridge National Laboratory
245. Blasing, T.J. and S.B. Jones, Measurements of CH₄ Mixing Ratio and D/H and ¹³C/¹²C Isotope Ratios in Atmospheric Samples from Two Sites in the United States, R03-117275.2003,
246. Blasing, T.J. and S.B. Jones, CSIRO/GASLAB Network: Individual Flask Measurements of Atmospheric Trace Gases, R03-117342.2003,
247. Cada, G.F., M.G. Ryon, D.A. Wolf, and B.T. Smith, Development of a new technique to assess susceptibility to predation resulting from sublethal stresses (indirect mortality), ORNL/TM-2003/195. Aug, 2003, Oak Ridge: Oak Ridge National Laboratory
248. Cheng, M.D. and R.W. Vannice, On-line measurements of beryllium, chromium, and mercury by using aerosol beam focused laser-induced plasma spectrometer and time-integrated filter sampling reference method, ORNL/TM-2003/56. April, 2003, Oak Ridge: Oak Ridge National Laboratory
249. Coutant, C.C.G., J.; Hanna, S.S.; Huntly, N.; McDonald, L.; McIntyre, J.D.; Mundy, P.; Riddell, B.; Smoker, W.W.; Ward, B.; Whitney, R.R.; Williams, R.N.; Merrill, E., Review of Fiscal Year 2002 Innovative Proposals for the Columbia River Basin Fish and Wildlife Program, R03-118477.2003,
250. Coutant, C.C.H., S.S.; Liss, W.J.; McDonald, L.; Riddell, B.; Smoker, W.W.; Whitney, R.R.; Williams, R.N.; Goodman, D.; Alldredge, R.; Pizzimenti, J.; Merrill, E., Final Review of Fiscal Year 2003 Mainstem and Systemwide Proposals, R03-118507.2003,
251. Coutant, C.C.H., S.S.; Liss, W.; McDonald, L.; Riddell, B.; Smoker, W.W.; Whitney, R.R.; Williams, R.N.; Alldredge, R.; Pizzimenti, J.; Merrill, E., Preliminary Review of Fiscal Year 2003 Mainstem and Systemwide Proposals, R03-118502.2003,
252. Coutant, C.C.H., S.S.; Liss, W.J.; McDonald, L.; Riddell, B.; Whitney, R.R.; Williams, R.N.; Griffith, J.; White, R.; Merrill, E., Review of Draft Clearwater Subbasin Plan, R03-118455.2003,

253. Coutant, C.C.H., S.S.; Huntly, N.; Liss, W.J.; McDonald, L.; Riddell, B.; Smoker, W.W.; Williams, R.N.; Griffith, J.; Loudenslager, E., Final Review of Proposals Submitted in Response to Bonneville Power Administration's March 14, 2003, Request for Studies for Reasonable and Prudent Alternative Actions 182 and 184 of the 2000 Federal Columbia River Power System Biological Opinion, R03-118461.2003,
254. Coutant, C.C.M., L.; Whitney, R.R.; Williams, R.N.; Hanna, S.S.; Griffith, J., Final Review: Arrowleaf/Methow River Conservation Project, R03-118474.2003,
255. Coutant, C.C.M., L.; Whitney, R.R.; Williams, R.N.; Goodman, D.; Hanna, S.S.; Liss, W.J.; Riddell, B.; Smoker, W.W.; Huntley, N., ISRP Review of Revised Moses Lake Recreational Fishery Proposal, R03-118478.2003,
256. Coutant, C.C.M., L.; Whitney, R.R.; Williams, R.N.; Griffith, J.; Hanna, S.S.; Liss, W.; Riddell, B.; Smoker, W.W.; Merrill, E., Final Review of Fiscal Year 2003 Proposals for the Upper and Middle Snake, Columbia Cascade, and Lower Columbia and Estuary Provinces, R03-118492.2003,
257. Coutant, C.C.M., L.; Whitney, R.R.; Williams, R.N.; Griffith, J.; Hanna, S.S.; Liss, W.J.; Riddell, B.; Smoker, W.W.; Merrill, E., Preliminary Review of Fiscal Year 2003 Proposals for the Upper and Middle Snake, Columbia Cascade, and Lower Columbia and Estuary Provinces, R03-118476.2003,
258. Coutant, C.C.M., J.D.; Ward, B.; Whitney, R., Umatilla M&E Review, R03-118463.2003,
259. Coutant, C.C.M., L.; Goodman, D.; Lettenmaier, D., Recommendations on Council Staff's Draft Issue Paper: "Analysis of 2001 Federal Columbia River Power Systems Operations on Fish Survival", R03-117175.2003,
260. Coutant, C.H., S.S.; Huntly, N.; Liss, W.J.; McDonald, L.; Riddell, B.; Whitney, R.R.; Alldredge, R.; Bisson, P.A., Review of Revised Mainstem Systemwide Proposals for Research, Monitoring, and Evaluation, R03-118457.2003,
261. Cushman, J.H., L.S. Cooper, and P.C. Anderson, Bibliography on biomass feedstock research: 1978-2002, ORNL/TM-2003/23. Apr, 2003, Oak Ridge: Oak Ridge National Laboratory
262. Cushman, R.M., T.A. Boden, L.A. Hook, S.B. Jones, D.P. Kaiser, A. Kozyr, and T.R. Nelson, Carbon Dioxide Information Analysis Center and Word Data Center for Atmospheric Trace Gases Fiscal Year 2002 Annual Report, ORNL/CDIAC-139. Jul, 2003, Oak Ridge: Oak Ridge National Lab.
263. De La Torre Ugarte, D.G.W., M.E.; Shapouri, H.; Slinsky, S.P., The Economic Impacts of Bioenergy Crop Production on U.S. Agriculture, R03-118321.2003,
264. Efroymsen, R.A., J.P. Nicolette, and G.W. Suter II, A framework for net environmental benefit analysis for remediation or restoration of petroleum-contaminated sites, ORNL/TM-2003/17. Jan, 2003, Oak Ridge: Oak Ridge National Laboratory

265. Ensminger, J.T., G.K. Eddlemon, K.S. Gant, L.N. McCold, R.L. Miller, H.D. Quarles, R.M. Reed, J.W. Saulsbury, and G.P. G.P. Zimmerman, Environmental Assessment: Construction and Operation of a Facility to Destroy Binary Agent Precursors DF and QL Stored at the Pine Bluff Arsenal, Arkansas, August, 2003, Aberdeen Proving Ground, MD: U.S. Army, Program Manager for Chemical Demilitarization
266. Gu, B., G.M. Brown, and Y.-K. Ku, Treatment of perchlorate-contaminated groundwater using highly-selective, regenerable anion-exchange resins at Edwards Air Force Base, ORNL/TM-2002/53. May, 2003, Oak Ridge: Oak Ridge National Laboratory
267. Hadley, S.W., J.W. Van Dyke, I.P. Poore, and T.K. Stovall, Quantitative Assessment of Distributed Energy Resource Benefits, ORNL/TM-2003/20. 2003,
268. Hylton, T.H., WH; Lee, DW; Singley, PT; Terry, JW, Thorium Nitrate Stockpile Drum Characterization Report, ORNL/TM-2003/53. 2003,
269. Kszos, L.A.P., K.I.; Polglase, P.J.; Nyakuengama, J.G.; Khanna, P.K., Changes in Soil Carbon Following Afforestation, R03-117284. 2003,
270. Lee, R.J., G.; Leiby, P.N.; Owens, B.; Wolf, J.L., Estimating the Benefits of Government-Sponsored Energy R&D: Synthesis of Conference Discussions, R03-118572. 2003,
271. Love, L.J., J.F. Jansen, T.E. McKnight, T.J. Phelps, and Y. Roh, A magnetocaloric pump for la-on-a-chip technology: phase I report, ORNL/TM-2003/245. Oct, 2003, Oak Ridge: Oak Ridge National Lab.
272. Malone, R., J. Drake, C. Ding, S. Ghan, P. Cameron-Smith, J. Taylor, W. Collins, W. Washington, S.-J. Lin, J. Baumgardner, T. Bettge, L. Buja, S. Chu, T. Craig, P. Duffy, J. Dukowicz, S. Elliot, D. Erickson, M. Ham, Y. He, F.M. Hoffman, E. Hunke, R. Jacob, P. Jones, J. Larson, J. Lamarque, W. Lipscomb, M. Maltrud, D. McKenna, A. Mirin, W. Putnam, W. Sawyer, J. Schramm, T. Shippert, R. Smith, P. Worley, and W. Yang, Collaborative design and development of the community climate system model for terascale computing. Scientific Discovery Through Advanced Computing (SciDAC) Progress Report, Oct, 2003, U.S. DOE, Office of Biological and Environmental Research
273. McCold, L.N., R.L. Miller, R.M. Reed, G.K. Eddlemon, K.S. Gant, H.D. Quarles, B.V. Sorensen, and G.P. Zimmerman, Environmental assessment of the proposed deployment and operation of an explosive destruction system at Pine Bluff Arsenal, Arkansas, Feb, 2003, Aberdeen Proving Ground, MD: U.S. Army, Program Manager for Chemical Demilitarization
274. McDonald, L.C., C.C.; Hanna, S.S.; Goodman, D., Review of BPA's Draft Request for Proposals for Research, Monitoring and Evaluation, R03-118456. 2003,
275. Miller, R.L., S.A. Carnes, G.K. Eddlemon, C.B. Foust, and E.D. Smith, Environmental assessment of the TOXECON retrofit for mercury and multi-pollutant control, Presque Isle Power Plant, DOE/EA-1476. Sep, 2003, Marquette: National Energy Technology Laboratory

276. Olson, R.J.H., S.K.; Cook, R.B.; Falge, E.; Baldocchi, D.; Gu, L.,FLUXNET: Database of fluxes, site characteristics, and flux-community information.,ORNL/TM-2003/204.2003,
277. Peterson, M.J.C., G.F.; Sale, M.J.; Eddlemon, G.K.,Regulatory Approaches for Addressing Dissolved Oxygen Concerns at Hydropower Facilities,R03-116748.2003,
278. Raich, J.W.P., C.S.; Bhagawati, D.; Olsen, L.W.,Interannual Variability in Global Soil Respiration on a 0.5 Degree Grid Cell Basis (1980-1994),R03-118347.2003,
279. Reed, R.M., G.F. Cada, C.R. Hall, D.W. Lee, J.M. Loar, R.D. Perlack, M.J. Sale, M.S. Salk, J.W. Saulsbury, E.D. Smith, J.B. Smith, D.A. Turner, J.W. Van Dyke, and F.R. Winchell,Final Environmental Impact Statement North Umpqua Hydroelectric Project (FERC 1927), Oregon,R03-116929.2003,
280. Reed, R.M., G.K. Eddlemon, K.S. Gant, L.N. McCold, R.L. Miller, H.D. Quarles, B.V. Sorensen, and G.P. Zimmerman,Environmental Assessment of the Proposed Destruction of Chemical Agent Identification Sets Stored at Pine Bluff Arsenal, Arkansas, Feb,2003,Aberdeen Proving Ground, MD:U.S.Army, Program Manager for Chemical Demilitarization
281. Roy, W.K.R., M.G.; Hinzman, R.L.; Smith, J.G.; Beauchamp, J.J.; Smith, M.R.; Carrico, B.A.,JAYCOR; Hoffmeister, R.P.; Norman, R.A.,Thermal Discharges from Paducah Gaseous Diffusion Plant Outfalls: Impacts on Stream Temperatures and Fauna of Little Bayou and Big Bayou Creeks,ORNL/TM-13183.2003,
282. Sale, M.J.,DOE Hydropower Program annual report for FY2002,DOE/ID-11107.Jul,2003,Idaho Falls:U.S. Dept. of Energy, Energy Efficiency and Renewable Energy, Wind and Hydropower Technologies
283. Saulsbury, J.W., D.L. Greene, J.L. Hopson, and D. Nye,Providing consumers with Web-based information on the environmental effects of automobiles: a qualitative research report based on focus groups in Knoxville, Tennessee, and Los Angeles, California,ORNL/TM-2003/166.Jun,2003,Oak Ridge:Oak Ridge National Laboratory
284. Schweitzer, M. and L. Ogle-Graham,An examination of Rebuild America partnership accomplishments and the factors influencing them,ORNL/CON-490.Sep,2003,Oak Ridge:Oak Ridge National Laboratory
285. Schweitzer, M.J., D.W.; Berry, L.G.; Tonn, B.E.,Estimating Energy and Cost Savings and Emissions Reductions for the State Energy Program Based on Enumeration Indicators Data,ORNL/CON-487.2003,
286. Shumpert, B.L.,Questions and answers regarding actions to take when ending shelter-in-place,ORNL/TM-2003/230.Sep,2003,Oak Ridge:Oak Ridge National Lab
287. Stokes, D.L.W., S.; Martin, M.; Vo-Dinh, T.,Raman Spectroscopy and instrumentation for monitoring soil carbon systems.,R03-119247.2003,
288. Terry, J.W.H., W.H.,Potential Radon-222 Emissions from the Thorium Nitrate Stockpile,ORNL/TM-2003/204.2003,

289. Tonn, B.E. and C. Wagner, A methodology to measure synergy among energy-efficiency programs at the program participant level, ORN/CON-491.Sep,2003, Oak Ridge: Oak Ridge National Laboratory
290. Truett, L.M., MA; Tonn, BE, Estimation of Energy Savings Resulting From the Best Practices Program, Fiscal Year 2002, ORNL/TM-2003/227.2003,
291. Wanninkhof, R.P., T.-H.; Huss, B.; Sabine, C.L.; Lee, K.; Azetsu-Scott, K.; Bullister, J.L.; Feely, R.A.; Hoppema, M.; Jones, P.; Key, R.M.; Kozyr, A.V.; Millero, F.J.; Ríos, A.F., Comparison of Inorganic Carbon System Parameters Measured in the Atlantic Ocean from 1990 to 1998 and Recommended Adjustments, ORNL/CDIAC-140.2003,
292. Whitney, R.R.C., L.D.; Erho, M.W., JR.; Coutant, C.C., Downstream Passage for Salmon at Hydro Electric Projects in the Columbia River Basin: Development, Installation, Evaluation, R03-117198.2003,
293. Williams, R.N., P.A. Bisson, C.C. Coutant, D. Goodman, J. Lichatowich, W.J. Liss, L. McDonald, P. Mundy, B. Riddell, J.A. Stanford, and R.R. Whitney, Review of Research Proposal for Inclusion in the 1997 Smolt Monitoring Program: Comparative Survival Rate Study of Hatchery PIT Tagged Chinook, R03-117112.2003,
294. Williams, R.N., P.A. Bisson, C.C. Coutant, D. Goodman, J.A. Lichatowich, W.J. Liss, L. McDonald, P. Mundy, B. Riddell, J.A. Stanford, and R.R. Whitney, Independent Scientific Advisory Board 1997 Annual Report, R03-117122.2003,
295. Williams, R.N., P.A. Bisson, C.C. Coutant, D. Goodman, J.A. Lichatowich, W.J. Liss, L. McDonald, P. Mundy, B. Riddell, J.A. Stanford, and R.R. Whitney, Response to Questions of the Implementation Team Regarding Juvenile Salmon Transportation in the 1998 Season, R03-117120.2003,
296. Williams, R.N., P.A. Bisson, C.C. Coutant, D. Goodman, J.A. Lichatowich, W.J. Liss, L. McDonald, P. Mundy, B. Riddell, J.A. Stanford, and R.R. Whitney, Review of the National Marine Fisheries Service's 1996 Annual Report to the Oregon Department of Environmental Quality Related to Waiver of the Dissolved Gas Standard, R03-117101.2003,
297. Williams, R.N., P.A. Bisson, C.C. Coutant, D. Goodman, J.A. Lichatowich, W.J. Liss, L. McDonald, P. Mundy, B.E. Riddell, J.A. Stanford, and R.R. Whitney, Report of the Independent Scientific Advisory Board Regarding a Research Proposal for Inclusion in the 1998 Smolt Monitoring Program, R03-117119.2003,
298. Williams, R.N., P.A. Bisson, C.C. Coutant, D. Goodman, J.A. Lichatowich, W.J. Liss, L. McDonald, P. Mundy, B.E. Riddell, J.A. Stanford, R.R. Whitney, and S.S. Hanna, Review of the Draft Programmatic Environmental Impact Statement: Impacts of Artificial Salmon and Steelhead Production Strategies in the Columbia River Basin, R03-117118.2003,

299. Williams, R.N., P.A. Bisson, C.C. Coutant, D. Goodman, J.A. Lichatowich, W.J. Liss, L. McDonald, P. Mundy, B.E. Riddell, and R.R. Whitney, The Scientific Basis for Juvenile Fish Passage Improvements in the Federal Columbia River Power System: John Day Dam Extended Length Turbine Intake Screens and Bonneville Dam Bypass System Outfalls. First Report: The ISAB Corps Capital Construction Project Review, R03-117124.2003,
300. Williams, R.N., P.A. Bisson, C.C. Coutant, D. Goodman, J.A. Lichatowich, W.J. Liss, L. McDonald, P.R. Mundy, B.E. Riddell, J.A. Stanford, and R.R. Whitney, Review of Proposal: Lake Pend Oreille Fishery Recovery Project, R03-117116.2003,
301. Williams, R.N., P.A. Bisson, C.C. Coutant, D. Goodman, P.A. Lichatowich, W.J.M. Liss, L., P.R. Mundy, B., J.A. Stanford, and R.R. Whitney, Ecological Impacts of the Flow Provisions of the Biological Opinion for Endangered Snake River Salmon on Resident Fishes in the Hungry Horse, and Libby Systems in Montana, Idaho, and British Columbia, R03-117114.2003,
302. Williams, R.N., L.D. Calvin, C.C. Coutant, M.W. Erho, JR., J.A. Lichatowich, W.J. Liss, W.E. McConnaha, P.R. Mundy, J.A. Stanford, R.R. Whitney, D.L. Bottom, and C.A. Frissell, Return to the River 2000: Restoration of Salmonid Fishes in the Columbia River Ecosystem, R03-117187.2003,
303. Williams, R.N., C.C. Coutant, D. Goodman, S.S. Hanna, N. Huntly, W.J. Liss, L. McDonald, B. Riddell, W.W. Smoker, and R.R. Whitney, ISRP Review of Criteria for Evaluating Proposals to Secure Tributary Water, R03-118515.2003,
304. Williams, R.N., C.C. Coutant, D. Goodman, S.S. Hanna, N. Huntly, W.J. Liss, L. McDonald, B. Riddell, W.W. Smoker, and R.R. Whitney, Review of Protocols for Counting Salmonids, Resident Fish, and Lampreys in the Pacific Northwest, R03-118465.2003,
305. Williams, R.N., C.C. Coutant, D. Goodman, S.S. Hanna, N. Huntly, W.J. Liss, L. McDonald, B. Riddell, W.W. Smoker, and R.R. Whitney, Summary of ISRP Reviews and Interactions with the Action Agencies' Research, Monitoring and Evaluation Effort, R03-118454.2003,
306. Zimmerman, G.P., J.W. Terry, K.S. Gant, C.E. Easterly, G.K. Eddlemon, C.W. Hagan, L.N. McCold, R.L. Miller, J.W. Saulsbury, and H.D. Quarles III, Anniston Chemical Agent Disposal Facility: review and evaluation of information for updating the 1991 Final Environmental Impact Statement, Jun, 2003, Aberdeen Proving Ground: U.S. Army Chemical Materials Agency (Provisional)