

## **CRESP Published Manuscripts**

- 1 Balakrishnan, S. A.Roy, M.G.Ierapetritou, G.P.Flach and P.G.Georgopoulos 2003. Uncertainty reduction and characterization for complex environmental fate and transport models: An empirical Bayesian framework incorporating the stochastic response surface method. *Water Resources Research* Vol . 39, No.12, 1350.
- 2 Burger J., 2004. Recreational rates and future land-use preferences for four DOE sites: Consistency despite demographic and geographical differences. *Environmental Research* 95: 215-223
- 3 Burger J. 2004. Study of the future land use of a contaminated site: Preferences versus potential use. *Remediation Autumn*.
- 4 Burger, J., 2003. Differing perspectives on the use of Scientific Evidence and the Precautionary Principle. *Journal of the International Union of Pure and Applied Chemistry. Implications of Endocrine Active Substances for Humans and Wildlife - a SCOPE/IUPAC Project. 75:(11-12) 2543-2545.* (ed. J. Miyamoto and J. Burger).
- 5 Burger, J., C.Dixon, C.S.Boring 2003. Effect of Deep-Frying Fish on Risk from Mercury. *Journal of Toxicology and Environmental Health, Part A* 66:817-282.
- 6 Burger, J., 2003. Making decisions in the 21st century: Scientific data, weight of evidence, and the Precautionary Principle. *Journal of the International Union of Pure and Applied Chemistry. Implications of Endocrine Active Substances for Humans and Wildlife - a SCOPE/IUPAC Project. 75:(11-12) 2505-2513.* (ed. J. Miyamoto and J. Burger).
- 7 Burger, J., O. Myers, C.S. Boring, C. Dixon, J.C. Jeitner, J. Leonard, C. Lord, M. McMahon, R. Ramos, S. Shukla and M. Gochfeld. 2003. Perceptual Indicators of Environmental Health, Future Land Use, and Stewardship. *Environmental Monitoring and Assessment* 89: 285-303
- 8 Burger, J., 2004. Assessment methods for concerns about contaminated sites. *Journal of Toxicology and Environmental Health, Part A* (67): 31-42.
- 9 Burger, J., K.F.Gaines, C.Shane Boring, J.Snodgrass, W.L. Stephens Jr., M.Gochfeld 2004. Effects of Cooking on Radiocesium in Fish from the Savannah River: Exposure Differences for the Public. *Arch. Environ. Contam. Toxicol.* 46, 231-235.
- 10 Burger, J. A.H. Stern, C. Dixon, C. Jeitner, S. Shukla, S. Burke and M. Gochfeld. 2004. Fish availability in supermarkets and fish markets in New Jersey. *Science of the Total Environment*, 33(1-3): 89-97.
- 11 Burger, J. 2004. Fish consumption advisories: Knowledge, compliance and why people fish in an urban estuary. *Journal of Risk Research.* 7 (5): 463-479.

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- 12 Burger, J., E.F. Orlando, M. Gochfeld, G.A. Binczik and L.J. Guillette Jr. 2004. Metal Levels in Tissues of Florida Gar (*Lepisosteus Latyrhincus*) From Lake Okeechobee.. *Environmental Monitoring and Assessment* 90: 187-201.
- 13 Burger, J. O.Myers, C.S. Boring, C.Dixon, C. Lord, R. Ramos, S.Shukla and M. Gochfeld 2004. Perceptions of general environmental problems, willingness to expend federal funds on these problems, and concerns regarding the Los Alamos national laboratory: Hispanics are more concerned than Whites. *Environmental Research* 95 (2) 174-183.
- 14 Burger, J., 2004. Recreational Rates and Future Land Use Preferences for INEEL Facility. *Journal of Environmental Planning and Management* 46(6): 857-874.
- 15 Burger, J. K.R.Campbell 2004. Species differences in contaminants in fish on and adjacent to the Oak Ridge Reservation, TN. *Environmental Research* 96: 145-155.
- 16 Carletta, M.A. K.Lowrie, K.T.Miller, M.Greenberg and J. Burger 2004. Guidance for determining the best disposition of large tracts of decommissioned land. *Journal of Environmental Planning and Management*, Vol 47, No.2, 243-268, March.
- 17 Carletta, M.A., K. Lowrie, K.T. Miller, M. Greenberg, and J. Burger. 2004. Guidance for determining the best disposition of large tracts of decommissioned land. *Journal of Environmental Planning and Management* 47(2): 243-268.
- 18 Clarke, J.H., M. M. MacDonell, E. D. Smith, R. J. Dunn and W. J. Waugh. 2004. Engineered Containment and Control Systems: Nurturing Nature. *Risk Analysis* 24 (3):771-779.
- 19 Gochfeld, M., 2004. Risk-Risk balancing for hazardous waste workers: Alternative work, traffic fatalities, and unemployment. *Risk Analysis*, Vol 24, No. 2.
- 20 Greenberg, M., K.T.Miller, K.Lowrie, M.A.Carletta and J.Burger 2003. An ecologically oriented database to guide remediation and reuse of contaminated sites. *Remediation*, Winter, 69-83.
- 21 Greenberg, M., K.Lowrie, M.Frisch and D. Lewis 2003. National government policy options for contributing to regional economic stability: the U.S. Department of Energy's major nuclear weapon sites. *Review of Policy Research*, vol 20(4): 647-670.
- 22 Greenberg, M., H.Mayer, and D.Lewis 2004. Life-cycle cost in a highly uncertain economic environment: the case of managing the U.S. Department of Energy's nuclear waste legacy. *Federal Facilities Environmental Journal*, spring: 67-82.
- 23 Hunter, J.G., J. Burger, and K.R. Cooper. 2003. Use of an integrated Mercury food web-model for ecological risk assessment. *Journal of Environmental Science & Health, Part A-- Toxic Substances & Environmental Engineering* 38: 71201-1215.

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- 24 Lewis, D., M.Frisch and M. Greenberg 2004. Downsizing and worker separation: Modeling the regional economic impacts of alternative Department of Energy workforce adjustment policies. *Regional Studies*, 38(1), 67-83.
- 25 Lowrie K. M.Greenberg, D.simon, L.Solitare, M.Killmer and H.Mayer. 2003. Remediation and stewardship: coexisting processes to protect health and the environment.. *REMEDIATION Autumn* 2003vol. 14(4) 91-104
- 26 Miller, K.T., D.Lewis, M.Frisch and M.Greenberg 2004. Innovative worker separation, severance policies and economic migration at U.S. Department of Energy sites. *Research in Economic Development*, 2(1), 3-16.
- 27 Myamoto, J., and J. Burger. 2003. Endocrine Active Substances in the Environment. *Pure and Applied Chemistry* 75 (11-12): 1617-2615. (Special Topic Issue on the Implications of Endocrine Active Substances for Humans and Wildlife.)
- 28 Peakall, D., and J. Burger. 2003. Methodologies for assessing exposure to metals: Speciation, bioavailability of metals, and ecological host factors. *Ecotoxicology and Environmental Safety* 56(1):110-121.
- 29 Punshon, T., B.P.Jackson, P.M. Bertsch and J.Burger. 2004. Mass loading of nickel and uranium on plant surfaces: application of laser ablation-ICP-MS. *Journal of Environmental Monitoring* 6:153-159.
- 30 Snodgrass J.W., W.A. Hopkins, J.Broughton, D.Gwinn, J.A. Baionno and J. Burger 2004. Species-specific responses of developing anuran to coal combustion wastes. *Aquatic Toxicology* 66: 171-182

**CRESP In Press Manuscripts**

- 1 Kostelnik, K.M., J. H. Clarke, J. L. Harbour, F. Sanchez and F. L. Parke. 200X. A Sustainable Environmental Protection System for the Management of Residual Contaminants. *Research in Social Problems and Public Policy*.
- 2 Mayer, H., M. Greenberg, J. Burger, M. Gochfeld, C. Powers, and D. Kosson. 200X. Using integrated geospatial mapping and conceptual site models to guide risk-based environmental cleanup decisions. *Risk Analysis*.
- 3 Vyas, V., A. Roy, W. Strawderman, P. G. Georgopoulos, and D. S. Kosson 200X. Development of a statistical/ geostatistical filtering methodology for determining background groundwater quality at the Savannah River Site. *Journal of Air and Waste Management*.

*CRESP Submitted Manuscripts*

- 1 Burger J. H.Mayer, M.Greenberg, C.W.Powers, C.Volz and M. Gochfeld. 200x. Ecological risk, conceptual site models and long-term stewardship where critical risk is off-site: The case of the Department of Energy's Amchitka Island nuclear test site. Environmental Management.
- 2 Burger J. M.Greenberg, M.Gochfeld, S.Shukla, K.Lowrie and R.Keren. 200x. Factors influencing acquisition of ecological and exposure information about risk from contaminated sites. Risk Analysis
- 3 Burger J. M.Gochfeld 200x. Heavy metals in commercial fish in New Jersey. Environmental Research
- 4 Burger J. M.Gochfeld, D.kosson, C.W.Powers, B.Friedlander, J.Eichelberger, D.Barnes, L.Duffy and S.Jewett. 200X. Science, policy, regulators, and stakeholders: developing a consensus science plan for Amchitka Island, Aleutians, Alaska. Environmental Management
- 5 Burger J. M. Gochfeld 200x. The Peconic River: Concerns associated with different risk evaluations for fish consumption. Journal of Environmental Planning and Management
- 6 Burger J. A.Stern, C.Dixon, C.Jeitner, S.Shukla, S.Burke and M.Gochfeld. 200X. What fish is that? Fish availability in supermarkets and fish markets in New Jersey. Environmental Health Perspectives.
- 7 Greenberg, M., J. Burger, K. Lowrie, and R. Keren. 200X. Factors influencing accurate understanding of geographically-distributed radiological risk information.. Environmental Hazards.
- 8 Lewis, D., H. Mayer and M. Greenberg. 200X. Stochastic Modeling of Life-Cycle Costs: A Preliminary Assessment of the West Valley Site. Waste Management.
- 9 Simon, D., K. Lowrie and M. Greenberg. 200X. Approaches to Collaborative Stewardship by the U.S. Forest Service. Land Use Policy.
- 10 Vyas, V.M., N.Sussman, M.Gochfeld, P.G.Georgopoulos and P.J.Lioy. 200x. Application of risk assessment principles to site remediation: A case study for a gas works plant in New Jersey.

**CRESP In Press Books, Chapters, and Sections**

- 1 Danis, C., M. Greenberg, L. Solitaire, H. Mayer. 2005. Partnerships for Smart Growth – Community Collaboration for Better Public Places. Book Chapter in Partnerships for Smart Growth. Scheduled for publication in Spring 2005, by M.E. Sharpe, Inc.

- 1 Powers C.W., 2004. CRESP Amchitka expedition summary. June 10 [Online: [http://www.cresp.org/HAPdocs/Summary\\_6\\_11\\_04.pdf](http://www.cresp.org/HAPdocs/Summary_6_11_04.pdf)].
- 2 Powers, C.W., H.Mayer 2004. Amchitka expedition update: initial specimen screening and future laboratory testing. October 14 [Online: [http://www.cresp.org/AmchitkaExpedition20update10\\_14\\_01.pdf](http://www.cresp.org/AmchitkaExpedition20update10_14_01.pdf)].
- 3 Powers, C.W. 2004. University researchers explore Amchitka island's marine environment: Seek to understand whether there are adverse effects of underground nuclear testing. June 28 [ Online: <http://www.cresp.org/amchitka2.html> ].

## **CRESP Researcher Reports**

- 1 Greenberg, M., H. Mayer, and K. Lowrie, 2004. Life Cycle Analysis of Calcine Waste and Facility Disposition Options at the INEEL Site: An Initial Review, Report number 89. CRESP Social and Economic Group, Rutgers University, July.
- 2 Greenberg, M., J. Burger, K. Lowrie, and R. Keren. 2004. Factors influencing accurate understanding of geographically-distributed radiological risk information, Report number 90. CRESP Social Science Group report.
- 3 Kosson, D. H. Grogan, K. Higley, R. Maddalena, C. Whipple 200x. Review of the C-tank farm closure performance assessment. Submitted to CH2M-Hill Hanford Group, Inc., April 20.
- 4 Mayer, H., D. Lewis and M. Greenberg. 2003. Contract Reform at the U.S. Department of Energy: Balancing Risk and Costs in a Complex Environment for Innovation." Report 75. November.
- 5 Mayer, H., and M. Greenberg. 2004. Costing and Other Gaps – Calcine Disposition. October.
- 6 Mayer, H., and M. Greenberg. 2004. Integrated Use of Geospatial Maps and Conceptual Site Models to Improve Risk Communication." Report 85. January.
- 7 Mayer, H., D. Lewis and M. Greenberg. 2004. Reducing environmental risk through public-private contracts: Benefits and Pitfalls. June.
- 8 Vyas, V., Sai Chiu Tong, and Panos G. Georgopoulos. 2004. Data Analysis for Determining Background Soil Concentrations of Certain Constituents of Potential Concern at the Savannah River Site. Exposure Assessment and Measurement Division, Environmental and Occupational Health Sciences Institute (EOHSI), March.

**CRESP Presentations, Posters, and Abstracts**

- 1 Burger, J. and M. Gochfeld. 2003. Evaluating Ecological And Human Health Risk at Contaminated Sites. Society for Risk Analysis (SRA) Baltimore, MD, December.
  
- 2 Burger, J. and M. Gochfeld. 2004. Ecological Risk and Conceptual Site Models Where receptors, are off site, especially Sea Birds. American Ornithologists Union, Quebec City, Quebec, August.
  
- 3 Clarke, J.H., L. Everett and S. Kowall. 2003. Long Term Management and Monitoring of Legacy Nuclear and Hazardous Waste. 29th Annual Seminar on Planetary Emergencies, World Laboratory, World Federation of Scientists, Erice, Italy, August.
  
- 4 Clarke, J.H., L. G. Everett and S. Kowall. 2004. Containment of Legacy Wastes during Stewardship. International Seminar on Nuclear War and Planetary Emergencies 30th Session, World Scientific Publishing Co. Pte. Ltd.
  
- 5 Clarke, J.H., K. M. Kostelnik, A. N. Clarke and L. G. Everett. 2004. Engineered Containment Systems for Radioactive and Hazardous Waste: Do Current Approaches Present Opportunities for Future Environmental Forensics?. Annual Meeting of the American Academy of Forensic Sciences, Dallas, TX, February.
  
- 6 Clarke, J.H., 2004. Sustainable Residual Hazards Management-Long Performance of Institutional Control Systems. IGERT Reliability and Risk Management Program, Vanderbilt University, April.
  
- 7 Garrabrants, A. D.S. Kosson, S. Mahadevan, F. Sanchez, and Y. Han. Leachability and Degradation of Solidified Secondary Wastes from High-Temperature Treatment of Hanford Tank Wastes. Leaching workshop, Vanderbilt University, Nashville, TN8-9 July 20.
  
- 8 Kostelnik, K.M., J.H. Clarke and J.L. Harbour. 2004. A Sustainable System for Residual Hazards Management. The Second International Conference on Prevention, Assessment, Rehabilitation and Development of Brownfields Sites, Siena, Italy, June.
  
- 9 Kostelnik, K., and J. H. Clarke. 2004. The Integration of Engineered and Institutional Controls: Lessons Learned from Previously Closed Sites. Workshop on Research and Needs for Durable Institutional Controls at Sites with Residual Contamination, Vanderbilt University, July 8.
  
- 10 Lowrie, K., 2004. Plainfield West End Neighborhood Preservation and Revitalization Action Plan. April.
  
- 11 Mayer, H., 2003. The Nuts & Bolts of Integrated Regional Land Use Planning. American Planning Association: New Jersey Chapter Annual Conference. December.

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- 12 Mayer, H., 2004. Integrating Across Sources, Sinks and Paths of Risk: Core GIS Maps. SRA Annual Conference, December.
- 13 Powers C.W., 2004. The use of risk-based end states to guide cleanup at DOE sites: a revolutionary advance or a diversion?. Frank L. Parker distinguished lecture series, Vanderbilt Univ., Nashville, TN, March 29.
- 14 Powers C.W., 2004. Whence CRESP: A brief review of things from the past. Management Board, Piscataway, NJ, March 31.
- 15 Powers, C.W., 2004. Incorporating risk in DOE's cleanup decisions past, present and future. A presentation to the committee on Risk-based approaches for disposition of TRU and HL radioactive wastes, National Research Council's Board on radioactive waste management. Augusta, GA January 28.
- 16 Powers, C.W., 2004. Planning the transition in the Amchitka expedition. CRESP research team, Adak, Alaska, June 25.
- 17 Powers, C.W. 2004. Research report: CRESP research past, present, future.. Department of environmental and occupational health, RWJMS-UMDNJ January 22
- 18 Powers, C.W., 2004. Risk and contaminated cleanup. EOHSI, Department of Environmental and Occupational Medicine, January 22.
- 19 Powers, C.W., 2004. Risk-based end states in the context of both Brownfields and DOE cleanup: remedies. CRESP-Vanderbilt Conference, Nashville, TN, July 9.
- 20 Powers, C.W., 2004. Some comments on risk-based end states & contaminated site cleanup. Session 17 Waste Management, Tucson, AZ March 2.
- 21 Powers, C.W., 2004. Some comments on risk-based end states & contaminated site cleanup. INEEL RBES planning session with CRESP, Nashville, May 10.
- 22 Powers, C.W., 2004. State of risk based contaminated site cleanup. Meeting of Hanford Advisory Board, Richland, Washington, March 10.
- 23 Powers, C.W., 2004. Stewardship, radiation and the north pacific: The Amchitka experience. AAAS Annual Meeting in a Symposium on Complex Environmental Systems, Chemistry and High Latitudes, February 16.

*CRESP Presentations, Posters, and Abstracts*

- 24 Powers, C.W., 2004. Using maps and conceptual models to integrate the elements of the site RBES vision and to improve risk communication. RBES workshop presentation and materials, Teleconference, May 20.
- 25 Powers, C.W. 2004. What does risk involve and how does CRESP research it?. Washington, D.C., August 26.
- 26 Powers, C.W. 2004. Why the CRESP Amchitka expedition matters to the people of Adak. Adak Civic Center, Alaska, June 25.
- 27 Vyas, V.M., B. Hough, S. Tong, C. Romanek, P. G. Georgopoulos, and D.K. Kosson. 2003. Identification of Background Levels from Soil Constituent Data with a High Proportion of Non-Detects, at the USDOE Savannah River Site in South Carolina. Annual Conference of the Society for Risk Analysis, December.
- 28 Vyas, V. Michael G. Gochfeld, Nancy R. Sussman, Panos G. Georgopoulos, and Paul J. Liroy. 2004. The Role of Risk Based Corrective Action and Risk Based End States: Principles in a Former Manufactured Gas Plant Site Remediation, Poster. SEA Annual Conference 2004, Philadelphia, PA.

**CRESP Symposia, Workshops, and Stakeholder Events**

- 1 Clarke, J.H. 2004. Lessons Learned from Evaluating Previously Closed Sites. Research and Needs for Durable Institutional Controls at Sites with Residual Contamination Workshop, Vanderbilt University, July 8.
- 2 CRESP. 2004. Research and Needs for Durable Institutional Controls at Sites with Residual Contamination Workshop. Vanderbilt University, July 8.
- 3 Garrabrants, A. 2004. Coupling of Leaching, External Stresses and Physical Performance of Cement Stabilized Wastes. Workshop: Applications, approaches and needs for leaching characterization, Session 1- Overview of Leaching Characterization Applications and Approaches, Department of Civil and Environmental Engineering. Vanderbilt University, July 9.
- 4 Greenberg, M. and H. Mayer 2004. Applying and Funding Long-term Institutional Controls. Research and Needs for Durable Institutional Controls at Sites with Residual Contamination Workshop, Vanderbilt University, July 8.
- 5 Kosson, D. 2004. Linking Decision Goals with test methods and release estimation. Workshop: Applications, approaches and needs for leaching characterization: Session 2 – Integrated Assessment of Leaching Characterization for Remediation, Performance Assessment and Beneficial Use, Department of Civil and Environmental Engineering. Vanderbilt University, July 9.
- 6 Parker, F. 2004. Re-thinking” engineered controls in the context of long-term institutional controls. Research and Needs for Durable Institutional Controls at Sites with Residual Contamination Workshop, Vanderbilt University, July 8.

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- 7 Powers, C.W. 2004. Relationships between Leaching and Risk Based End States for DOE Sites and Brownfields. Workshop: Applications, approaches and needs for leaching characterization, Session 1- Overview of Leaching Characterization Applications and Approaches, Department of Civil and Environmental Engineering. Vanderbilt University, July 9.
- 8 Powers, C.W. 2004. The Need for Durable Institutional Controls. Research and Needs for Durable Institutional Controls at Sites with Residual Contamination Workshop, Vanderbilt University, July 8.

**CRESP Dissertations or Theses Completed**

- 1 Alli, R. 2004. A review assessing the effectiveness of removal of long-lived radionuclides during the pretreatment process for tank waste at Hanford.. MS thesis in Civil and Environmental Engineering, U. of Washington, Seattle, WA.