

Joshua Lipton, Ph.D.

PROFILE

Dr. Lipton's expertise includes environmental toxicology and chemistry; ecology and fisheries biology; natural resources investigations; quantitative uncertainty analysis; and natural resource damage assessment (NRDA) and Environmental Damage Assessment (EDA). An internationally recognized expert in NRDA and EDA, Dr. Lipton has designed and led numerous assessments of the effects of chemical toxicants on natural resources and their supporting habitats, and has been a leader in the development of equivalency approaches for ecosystem restoration. Dr. Lipton's academic research interests include (1) connecting physiological mechanisms of toxicity with effects at the organism, population, and community/habitat level; and (2) relationships between environmental variables and responses of organisms to chemical and non-chemical stress. His work includes laboratory and field studies related to chemical bioavailability; effects of chemicals on ion-regulatory, immune, endocrine, and hematological systems; chemical and multi-stressor effects on function (e.g., reproductive, respiratory, cardiac, homeostasis); and behavioral toxicology. He has designed and directed laboratory and field toxicity tests, environmental sampling/monitoring studies, ecological field investigations, fisheries and wildlife population monitoring studies, and environmental modeling projects. Dr. Lipton has lectured widely in the United States, the European Union, and internationally to government researchers, university departments, and at professional meetings; and has provided expert testimony on behalf of government agencies in federal and state courts in the fields of environmental toxicology, natural resources, and natural resource damage assessment and restoration (NRDAR).

Dr. Lipton is the author or co-author of Equivalency Methods for Environmental Liability (Springer; 2018) and numerous peer-reviewed articles and scientific presentations. He has lectured widely in the United States and overseas; has served on editorial boards and as a peer reviewer for scientific journals; served as a Research (Full) Professor at the Colorado School of Mines; and currently serves on the Scientific Advisory Board of the Advanced Environmental Research Institute at the University of North Texas.

EDUCATION

PhD, Cornell University, Natural Resources

MS, Cornell University, Natural Resources

BA, Middlebury College, Ecology

PROFESSIONAL EXPERIENCE

Abt Associates, Boulder, CO

- Vice President of Research and Innovation (2017–2018)
- Division Vice President, Environment and Natural Resources (2016–2017)

Stratus Consulting, Boulder, CO

- Chief Executive Officer and President (2001–2016)
- Executive Vice President, Environmental Science and Natural Resources, (1998–2000)

Hagler Bailly Inc., Boulder, CO.

- Director (1995–1998); Vice President (1994–1995); Principal (1993–1994); Manager (1991–1993); Senior Associate (1990–1991)

SELECTED PUBLICATIONS

Lipton, J., E. Özdemiroglu, D. Chapman, and J. Peers (eds.) 2018. Equivalency Methods for Environmental Liability: Assessing Damages and Compensation Under the European Environmental Liability Directive. Dordrecht, The Netherlands: Springer.

Morris, J.M., S.F. Brinkman, M.W. Carney, and J. Lipton. 2018. Copper toxicity in Bristol Bay headwaters: Part 1 – Acute mortality and ambient water quality criteria in low-hardness water. *Environmental Toxicology and Chemistry*. Available: <https://setac.onlinelibrary.wiley.com/doi/10.1002/etc.4252>

Morris, J.M., S. Brinkman, R. Takeshita, A. McFadden, M. Carney, and J. Lipton. 2018. Copper toxicity in Bristol Bay headwaters: Part 2 – Olfactory inhibition in low-hardness water. *Environmental Toxicology and Chemistry*. Available: <https://setac.onlinelibrary.wiley.com/doi/10.1002/etc.4295>

Forth, H.P., C.L. Mitchelmore, J.M. Morris, and J. Lipton. 2017. Characterization of oil and water accommodated fractions used to conduct aquatic toxicity testing in support of the *Deepwater Horizon* oil spill natural resource damage assessment. *Environmental Toxicology and Chemistry* 36(6):1450–1459. doi: 10.1002/etc.3672. Available: <http://onlinelibrary.wiley.com/wol1/doi/10.1002/etc.3672/full>.

Forth, H.P., C.L. Mitchelmore, J.M. Morris, C.R. Lay, and J. Lipton. 2017. Characterization of dissolved and particulate phases of water accommodated fractions used to conduct aquatic toxicity testing in support of the *Deepwater Horizon* natural resource damage assessment. *Environmental Toxicology and Chemistry* 36(6):1460–1472. Available: <http://onlinelibrary.wiley.com/wol1/doi/10.1002/etc.3803/full>.

Unrein, J.R., J.M. Morris, R.S. Chitwood, J. Lipton, J. Peers, S. van de Wetering, and C.B. Schreck. 2016. Pacific lamprey ammocoetes (*Entosphenus tridentata*) exposed to contaminated Portland Harbor sediments: Method development and effects on survival, growth, and behavior. *Environmental Toxicology and Chemistry*. 35(8):2092–2102.

- Tarnecki, J.H., P.M. Suprenand, A. Wallace, J.F. Reinhardt, J. Lipton, T.A. Hollweg, and C.H. Ainsworth. 2015. Characterization of predator-prey relationships in northern Gulf of Mexico regions affected by the *Deepwater Horizon* oil spill. In *Rev. Marine and Coastal Fisheries*.
- Jones, R., C. Travers, C. Rodgers, B. Lazar, E. English, J. Lipton, J. Vogel, K. Strzepek, and J. Martinich. 2013. Climate change impacts on freshwater recreational fishing in the United States. *Mitigation and Adaptation Strategies for Global Change* 18(6):731–758. doi: 10.1007/s11027-012-9385-3. Available: <http://link.springer.com/article/10.1007%2Fs11027-012-9385-3>.
- Gala, W., J. Lipton, P. Cernera, T. Ginn, R. Haddad, M. Henning, K. Jahn, W. Landis, E. Mancini, J. Nicoll, V. Peters, and J. Peterson. 2009. Ecological risk assessment and natural resource damage assessment: Synthesis of assessment procedures. *Integrated Environmental Assessment and Management* 5(4):515–522.
- Bishop, R.C., J. Lipton, M. Margolis, N. Meade, G.L. Peterson, and A. Randall. 2008. Integrating economics and ecological assessment. In *Valuation of Ecological Resources: Integration of Ecology and Socioeconomics in Environmental Decision Making*, R.G. Stah Jr., L.A. Kapustka, W.R. Munns Jr., and R.J.F. Bruins (eds.). CRC Press, Boca Raton, FL. pp. 45–57.
- Welsh, P.G., J. Lipton, C.A. Mebane, and J.C.A. Marr. 2008. Influence of flow-through and renewal exposures on the toxicity of copper to rainbow trout. *Ecotoxicology and Environmental Safety* 69:199–208.
- Cacela, D., J. Lipton, D. Beltman, J. Hansen, and R. Wolotira. 2005. Associating ecosystem service losses with indicators of toxicity in habitat equivalency analysis. *Environmental Management* 35(3):343–351.
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- Strange, E.M., P.D. Allen, D. Beltman, J. Lipton, and D. Mills. 2004. The habitat-based replacement cost method for assessing monetary damages for fish resource injuries. *Fisheries* 29:17–23.
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- Barron, M.G., J.A. Hansen, and J. Lipton. 2002. Association between contaminant tissue residues and effects in aquatic organisms. *Reviews of Environmental Contamination and Toxicology* 173:1–37.
- Hansen, J.A., P.G. Welsh, and J. Lipton. 2002. Relative sensitivity of bull trout (*Salvelinus confluentus*) and rainbow trout (*Oncorhynchus mykiss*) to acute copper toxicity. *Environmental Toxicology and Chemistry* 21:633–639.

- Hansen, J.A., P.G. Welsh, J. Lipton, and D. Cacela. 2002. Effects of copper exposure on growth and survival of juvenile bull trout. *Transactions of the American Fisheries Society* 131:690–697.
- Hansen, J.A., P.G. Welsh, J. Lipton, and M. Suedkamp. 2002. The effects of long-term cadmium exposure on the growth and survival of juvenile bull trout (*Salvelinus confluentus*). *Aquatic Toxicology* 58:165–174.
- Hansen, J.A., J. Lipton, P.G. Welsh, D. Cacela, and A.D. Dailey. 2002. Relative sensitivity of bull trout (*Salvelinus confluentus*) and rainbow trout (*Oncorhynchus mykiss*) to acute exposures of cadmium and zinc. *Environmental Toxicology and Chemistry* 21:67–75.
- Hansen, J.A., J. Lipton, P.G. Welsh, J. Morris, D. Cacela, and M.J. Suedkamp. 2002. Relationship between exposure duration, tissue residues, growth, and mortality in rainbow trout (*Oncorhynchus mykiss*) juveniles sub-chronically exposed to copper. *Aquatic Toxicology* 58:175–188.
- Strange, E.M., J. Lipton, D. Beltman, and B.D. Snyder. 2002. Scientific and societal considerations in selecting assessment endpoints for environmental decision-making. *The Scientific World* 2:12–20.
- Strange, E., H. Galbraith, S. Bickel, D. Mills, D. Beltman, and J. Lipton. 2002. Determining ecological equivalence in service-to-service scaling of salt marsh restoration. *Environmental Management* 29:290–300.
- Welsh, P.G., G. Chapman, J.A. Hansen, and J. Lipton. 2001. Importance of ionic composition of reconstituted laboratory test water in interpreting metal toxicity test results. *Environmental Toxicology and Risk Assessment: Science Policy, and Standardization – Implications for Environmental Decisions: Tenth Volume, ASTM STP 1403*. B.M. Greenberg, R.N. Hall, M.H. Roberts, Jr., and R.W. Gensemer, eds. American Society for Testing and Materials, West Conshohocken, PA.
- Barron, M.G., M. Anderson, D. Cacela, J. Lipton, S.J. Teh, D.E. Hinton, J.T. Zelikoff, A.L. Dikkeboom, D.E. Tillitt, M. Holey, and N. Denslow. 2000. PCBs, liver lesions, and biomarker responses in adult walleye (*Sitizostedium vitreum vitreum*) collected from Green Bay, Wisconsin. *Journal of Great Lakes Research* 26:250–271.
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- Beltman, D.J., W. H. Clements, J. Lipton, and D. Cacela. 1999. Benthic invertebrate metals exposure, accumulation, and community-level impacts downstream of a hard-rock mine site. *Environmental Toxicology and Chemistry* 18:299–307.
- Hansen, J.A., J.C.A. Marr, J. Lipton, D. Cacela and H.L. Bergman. 1999. Differences in neurobehavioral responses of chinook salmon (*Oncorhynchus tshawytscha*) and rainbow trout (*Oncorhynchus mykiss*) exposed to copper and cobalt: Behavioral avoidance. *Environmental Toxicology and Chemistry* 18:1972–1978.

- Marr, J.C.A., J. Lipton, D. Cacela, J.A. Hansen, J.S. Meyer, and H.L. Bergman. 1999. Bioavailability and acute toxicity of copper to rainbow trout (*Oncorhynchus mykiss*) in the presence of organic acids simulating natural dissolved organic carbon. *Canadian Journal of Fisheries and Aquatic Sciences* 56:1471–1483.
- Lipton, J., D. Cacela, C. Cowan, P. DeFur, L. Ginzburg, and C. Mebane. 1998. Risk characterization. In *Ecological Risk Assessment Decision-Support System: A Conceptual Design. Proceedings of the Pellston Workshop on Ecological Risk Assessment Modeling 23–28 August 1994*. K.H. Reinert, S.M. Bartell, and G.R. Biddinger (eds.). SETAC Press, Pensacola, FL.
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- Mastrine, J.A., A.S. Maest, J. Lipton, and B. Sanders. 1998. Framework for a nationwide hard rock mining database. In *Proceedings of the 32nd Meeting of the Geoscience Information Society*, C.J. Manson, (ed.). Geoscience Information Society, Washington, DC.
- Anderson, M.J., M.G. Barron, S.A. Diamond, J. Lipton, and J.T. Zelikoff. 1997. Biomarker selection for restoration monitoring of fishery resources. In *Environmental Toxicology and Risk Assessment, Modeling and Risk Assessment, 6th Volume*. F.J. Dwyer, T.R. Doane, and M.L. Hinman (eds.). ASTM STP 1317, American Society for Testing and Materials, Philadelphia, PA.
- Barron, M.G., M.J. Anderson, J. Lipton, and D.G. Dixon. 1997. Evaluation of critical body residue QSARs for predicting organic chemical toxicity to aquatic organisms. *SAR and QSAR Environmental Research* 6:47–62.
- LeJeune, K., H. Galbraith, J. Lipton, and L.A. Kapustka. 1996. Effects of metals and arsenic on riparian communities in southwest Montana. *Ecotoxicology* 5:297–312.
- Lipton, J., E.E. Little, J.C.A. Marr, and A.J. DeLonay. 1996. Use of behavioral avoidance testing in natural resource damage assessment. In *Environmental Toxicology and Risk Assessment: Biomarkers and Risk Assessment – Fifth Volume, ASTM STP 1306*. D.A. Bengtson and D.S. Henshel (eds.). American Society for Testing and Materials, West Conshohocken, PA.
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- Marr, J., H.L. Bergman, J. Lipton, and C. Hogstrand. 1995. Differences in relative sensitivity of naive and metals-acclimated brown and rainbow trout exposed to metals representative of the Clark Fork River, Montana. *Canadian Journal of Fisheries and Aquatic Sciences* 52:2016–2030.
- Marr, J.C.A., H.L. Bergman, M. Parker, J. Lipton, D. Cacula, W. Erickson, and G.R. Phillips. 1995. Relative sensitivity of brown and rainbow trout to pulsed exposures of an acutely lethal mixture of metals typical of the Clark Fork River, Montana. *Canadian Journal of Fisheries and Aquatic Sciences* 52:2005–2015.
- Phillips, G. and J. Lipton. 1995. Injury to aquatic resources caused by metals in Montana's Clark Fork River basin: Historic perspective and overview. *Canadian Journal of Fisheries and Aquatic Sciences* 52:1990–1993.
- MacRae, R., J. Meyer, A. Maest, and J. Lipton. 1994. Linking geochemistry and fish toxicology at mining sites: Determination of an organic acid analogue for use in copper toxicity studies on salmonids. *EOS* 75(44):243.
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- Lipton, J. and H. Galbraith. 1993. Treatment of uncertainty in ecological risk assessment: Be careful what you wish for. *Water Quality Standards in the 21st Century*. U.S. EPA, Washington, DC.
- Lipton, J., H. Galbraith, J. Burger, and D. Wartenburg. 1993. A paradigm for ecological risk assessment. *Environmental Management* 17(1):1–5.
- Lipton, J. and J.W. Gillett. 1992. Uncertainty in risk assessment: Exceedence frequencies, acceptable risk, and risk-based decision making. *Regulatory Toxicology and Pharmacology* 15:51–61.
- Lipton, J. and J.W. Gillett. 1991. Uncertainty in ocean-dumping health risks: Influences of bioconcentration, commercial fish landings and seafood consumption. *Environmental Toxicology and Chemistry* 10:967–976.
- Koenings, J.P., J. Lipton, and P. McKay. 1986. Quantitative determination of oxytetracycline uptake and retention by juvenile sockeye salmon. *Transactions of the American Fisheries Society* 115(4):621–629.

SELECTED PRESENTATIONS

- Forth, H.P., J.M. Morris, C.R. Lay, J. Lipton, C.L. Mitchelmore, and S.E. Suttles. 2016. Characterization of Oil and Water Accommodated Fractions Used to Conduct Toxicity Testing for the *Deepwater Horizon* Natural Resource Damage Assessment. Gulf of Mexico Oil Spill & Ecosystem Science Conference, Tampa, FL. February 1–4.
- Krasnec, M., C. Lay, H. Forth, R. Takeshita, I. Lipton, A. McFadden, J. Lipton, and J. Morris. 2016. Characterization of the Various Sediment Preparation Techniques Used during Toxicity Testing in Support of the *Deepwater Horizon* NRDA. Gulf of Mexico Oil Spill & Ecosystem Science Conference, Tampa, FL. February 1–4.
- Lay, C., A. McFadden, I. Lipton, J. Lipton, J. Morris, A. Roberts, M. Alloy, C. Overturf, T. Garner, and J. Oris. 2016. Photo-Induced Toxicity of *Deepwater Horizon* Oil to Native Gulf of Mexico Fish and Invertebrate Species. Gulf of Mexico Oil Spill & Ecosystem Science Conference, Tampa, FL. February 1–4.
- Lipton, I., C. Lay, M. Carney, R. Takeshita, H. Forth, M. Krasnec, A. McFadden, J. Lipton, J. Morris, J. Cegan, S. Bonnot, and M. Gielazyn. 2016. Exposure to *Deepwater Horizon* Oil in Sediment Inhibited Growth in Juvenile Red Drum and Pacific White Shrimp. Gulf of Mexico Oil Spill & Ecosystem Science Conference, Tampa, FL. February 1–4.
- Mitchelmore, C., C. Rowe, B. Stacy, L. Clayton, C. McDermot, S. Funck, G. Danvers, M. Strauss, H. Pie, N. Chigounis, N. Stacy, C. Cray, G. Ylitalo, D. Reavill, S. Lamb, D. Cacela, K. Dean, H. Forth, J. Lipton, J. Morris, R. Takeshita, and B. Wallace. 2016. Effects of *Deepwater Horizon* Oil on Red-Eared Sliders (*Trachemys scripta elegans*) and Common Snapping Turtles (*Chelydra serpentina*) as Surrogate Species for Sea Turtles. Gulf of Mexico Oil Spill & Ecosystem Science Conference, Tampa, FL. February 1–4.
- Morris, J., C. Lay, M. Krasnec, H. Forth, R. Takeshita, A. McFadden, I. Lipton, M. Carney, D. Cacela, J. Lipton, M. Gielazyn, and R. Ricker. 2016. Status and Results of the Trustee Toxicity Testing Program Conducted in Support of the *Deepwater Horizon* Natural Resource Damage Assessment. Gulf of Mexico Oil Spill & Ecosystem Science Conference, Tampa, FL. February 1–4.
- Takeshita, R., J. Morris, K. Dean, M. Gielazyn, R. Ricker, P. Tuttle, and J. Lipton. 2016. Cross-Taxonomic Consistency of Toxicological Effects of *Deepwater Horizon* Oil. Gulf of Mexico Oil Spill & Ecosystem Science Conference, Tampa, FL. February 1–4.
- Bayha, K.M., R. Takeshita, M. Krasnec, N. Cumbaa, C. Lay, B. Bailey, J. Lipton, J.M. Morris, and R.J. Griffitt. 2015. Immunotoxic Effects of *Deepwater Horizon* Oil on Gulf of Mexico Fish Species. 25th Annual Meeting of the Society of Environmental Toxicology and Chemistry (SETAC Europe), Barcelona, Spain. May 3–7.
- Forth, H.P., J. Morris, C. Lay, J. Lipton, C. Mitchelmore, and S. Suttles. 2015. Characterization of Oil and Water Accommodated Fractions Used to Conduct Aquatic Toxicity Testing in Support of the *Deepwater Horizon* Natural Resource Damage Assessment. Presentation ID #216, Society of Environmental Toxicology and Chemistry (SETAC) North America 36th Annual Meeting, Salt Lake City, UT. November 1–5.

- Krasnec, M., N. Brown-Peterson, R.S. Ogle, A. Gantner, R.J. Griffitt, C. Lay, J. Lipton, and J.M. Morris. 2015. Characterization of the Various Sediment Exposure Techniques Used during Toxicity Testing in Support of the *Deepwater Horizon* Natural Resource Damage Assessment. Presentation ID #218, Society of Environmental Toxicology and Chemistry (SETAC) North America 36th Annual Meeting, Salt Lake City, UT. November 1–5.
- Lay, C., H. Forth, J. Lipton, J.M. Morris, and C.L. Mitchelmore. 2015. Characterization of the Dissolved Fraction of PAH in Mixtures of Water and Oil Used during Toxicity Testing as Part of the *Deepwater Horizon* NRDA. Presentation ID #TP052, Society of Environmental Toxicology and Chemistry (SETAC) North America 36th Annual Meeting, Salt Lake City, UT. November 1–5.
- Lipton, J. and J. Peers. 2015. Environmental Liability Directive Advanced Case Study Two-Day Training. Presented at Ministry of Environment and Energy, Athens, Greece. October 15–16.
- Morris, J., A.P. Roberts, J. Oris, C. Lay, and J. Lipton. 2015. Photo-Induced Toxicity of *Deepwater Horizon* Oil to Native Gulf of Mexico Fish and Invertebrate Species. Society of Environmental Toxicology and Chemistry (SETAC) Europe 25th Annual Meeting, Barcelona, Spain. May 3–7.
- Morris, J., J. Lipton, C. Lay, M. Krasnec, H. Forth, R. Takeshita, D. Cacela, M.L. Gielazyn, and R.W. Ricker. 2015. Overview of NOAA *Deepwater Horizon* Natural Resource Damage Assessment Toxicity Testing Program. Society of Environmental Toxicology and Chemistry (SETAC) Europe 25th Annual Meeting, Barcelona, Spain. May 3–7.
- Morris, J.M., J. Lipton, C. Lay, M. Krasnec, H. Forth, R. Takeshita, D. Cacela, M. Gielazyn, and R. Ricker. 2015. Status and Results of the Trustee Toxicity Testing Program Conducted in Support of the *Deepwater Horizon* Natural Resource Damage Assessment. Presentation ID #TP053, Society of Environmental Toxicology and Chemistry (SETAC) North America 36th Annual Meeting, Salt Lake City, UT. November 1–5.
- Morris, J.M., H. Forth, C. Lay, R. Takeshita, M. Krasnec; J. Lipton, T. Lindsey, F. Galvez, M. Alloy, C. Overturf, T.R. Garner, A. Roberts, E. Mager, J. Stieglitz, C. Pasparakis, Z. Yao, D. Benetti, M. Grosell, E. Chesney, K. O’Shaughnessy, B. Woodall, J. Roberts, M. Boulais, and A. Volety. 2015. Toxicity of Very Thin Surface Slicks of *Deepwater Horizon* Oil to Gulf of Mexico Fish and Invertebrate Embryos and Larvae. Presentation ID #308, Society of Environmental Toxicology and Chemistry (SETAC) North America 36th Annual Meeting, Salt Lake City, UT. November 1–5.
- Takeshita, R., H. Forth, M. Krasnec, M. Carney, C. Lay, C. Mansfield, M. Alloy, K. Bridges, T. Garner, S. Bonnot, A. Roberts, J. Morris, and J. Lipton. 2015. Toxic Effects of *Deepwater Horizon* Oil on Early Life-Stage Red Drum and Speckled Seatrout. Presentation ID #313, Society of Environmental Toxicology and Chemistry (SETAC) North America 36th Annual Meeting, Salt Lake City, UT. November 1–5.
- Volety, A.K., J. Vignier, B. Woodall, J. Roberts, A. Loh, P. Soudant, F. Chu, L. Haynes, J. Morris, C. Lay, M. Krasnec, and J. Lipton. 2015. Effects of *Deepwater Horizon* Oil and Dispersants on Various Life Stages of Oysters. Presentation ID #311, Society of

Environmental Toxicology and Chemistry (SETAC) North America 36th Annual Meeting, Salt Lake City, UT. November 1–5.

- Bayha, K.M., K. Griffitt, R. Takeshita, M. Krasnec, J. Morris, J. Lipton, and R.J. Griffitt. 2014. Examining the Effects of Oil Exposure on Immune Function and Susceptibility to Pathogenic Bacteria of Gulf of Mexico Fishes. 17th Biennial Ocean Sciences Meeting, Honolulu, HI. February 23–28.
- Morris, J.M., J. Lipton, and S. Brinkman. 2014. Acute and Olfactory Copper Toxicity to Fish Using Laboratory and Site-collected Water from Alaska. 27th Annual Meeting of the Rocky Mountain Chapter of the Society of Environmental Toxicology and Chemistry (RMSETAC), Denver, CO. April 17–18.
- Morris, J., J. Lipton, C. Lay, M. Krasnec, H. Forth, R. Takeshita, D. Cacela, M. Gielazyn, and R. Ricker. 2014. Overview of NOAA *Deepwater Horizon* Natural Resource Damage Assessment Toxicity Testing Program. 35th Annual Meeting of the Society of Environmental Toxicology and Chemistry (SETAC), Vancouver, BC, Canada. November 9–13.
- Volety, A., J. Vignier, K. McEachern, J. Roberts, E. Nickols, A. Rolton, L. Haynes, P. Soudant, F. Chu, J. Morris, M. Carney, J. Lipton, D. Cacela, M. Krasnec, and C. Lay. 2014. Impacts of *Deepwater Horizon* Oil and Dispersants on the Metamorphosis and Settlements Success of Eastern Oysters *Crassostrea virginica*. 35th Annual Meeting of the Society of Environmental Toxicology and Chemistry (SETAC), Vancouver, BC, Canada. November 9–13.
- Griffitt, R., N. Brown-Peterson, B. Bailey, M. Krasnec, I. Lipton, R. Takeshita, J. Lipton, and J. Morris. 2013. Exposure to Sediment Contaminated with *Deepwater Horizon* Oil Alters Growth and Survival of the Southern Flounder. 34th Annual Meeting of the Society of Environmental Toxicology and Chemistry (SETAC), Nashville, TN. November 17–21.
- Martin, N., A. Volety, J. Vignier, J. Devine, E. Nickols, L. Haynes, P. Soudant, F. Chu, J. Morris, M. Carney, J. Lipton, D. Cacela, and M. Krasnec. 2013. Combined Effects of Salinity, Temperature and PAH Exposure on the Development of the Early-Life Stages of the Oyster *Crassostrea virginica*. 34th Annual Meeting of the Society of Environmental Toxicology and Chemistry (SETAC), Nashville, TN. November 17–21.
- Morris, J.M., J. Lipton, and S. Brinkman. 2013. Copper Toxicity to Rainbow Trout and Fathead Minnows in Low-Hardness Waters: Comparisons of BLM Predictions of Toxicity to Bioassay Results Using Laboratory Water and Site-collected Water from Upper Talarik Creek in Bristol Bay. Southwest Alaska Salmon Science Workshop, Anchorage, AK. December 4–5.
- Roberts, A., M. Alloy, L. Taylor, J. Oris, M. Grosell, A. Volety, J. Stoeckel, J. Morris, and J. Lipton. 2013. Overview of *Deepwater Horizon* Phototoxicity Testing: Acute and Trans-Generational Effects on Early Lifestage Organisms. 34th Annual Meeting of the Society of Environmental Toxicology and Chemistry (SETAC), Nashville, TN. November 17–21.

- Taylor, L., M.M. Alloy, I. Palmer, J. Stoeckel, H. Forth, J. Morris, J. Lipton, and A. Roberts. 2013. Transgenerational Phototoxicity in Fiddler Crabs Exposed to *Deepwater Horizon* Oil. 34th Annual Meeting of the Society of Environmental Toxicology and Chemistry (SETAC), Nashville, TN. November 17–21.
- Vignier, J., L. Donaghy, J. Devine, B. Denkert, P. Soudant, F.L.E. Chu, J.M. Morris, M.W. Carney, J. Lipton, D. Cacela, C. Lay, and A.K. Volety. 2013. Effects of Acute Exposure to *Deepwater Horizon* Oil Spill and Associated Dispersant on Embryos and Veligers of the Eastern Oyster, *Crassostrea virginica*. Aquaculture 2013: Triennial meeting of the Fish Culture Section of the American Fisheries Society, the World Aquaculture Society, and the National Shellfisheries Association, Nashville, TN. February 21–25.
- Vignier, J., R. Ketover, J. Devine, A. Rolton, A. Volety, P. Soudant, S. Le Floch, J. Guyomarch, F. Chu, J. Morris, M. Carney, J. Lipton, D. Cacela, C. Lay, and M. Krasnec. 2013. Sublethal Effects of *Deepwater Horizon* Oil on *Crassostrea virginica* Larvae Using Dietary Pathways. 34th Annual Meeting of the Society of Environmental Toxicology and Chemistry (SETAC), Nashville, TN, November 17–21.
- Volety, A.K., L. Haynes, J. Vignier, N. Martin, A. Griffith, L. Castret, L. Donaghy, P. Soudant, F.L.E. Chu, J.M. Morris, M.W. Carney, J. Lipton, D. Cacela, and C. Lay. 2013. Biological Responses of the Eastern Oyster, *Crassostrea virginica*, Exposed to *Deepwater Horizon* and Dispersants Oil via Dietary Pathways: Impacts on F-2 Generation. Aquaculture 2013: Triennial meeting of the Fish Culture Section of the American Fisheries Society, the World Aquaculture Society, and the National Shellfisheries Association, Nashville, TN. February 21–25.
- Volety, A., J. Vignier, J. Devine, R. Ketover, E. Nickols, L. Haynes, P. Soudant, F. Chu, J. Morris, M. Carney, J. Lipton, D. Cacela, M. Krasnec, and C. Lay. 2013. Exposure to Elutriate of Sediment Contaminated with *Deepwater Horizon* Oil Affects Developmental Responses of Oyster Early Life Stages. 34th Annual Meeting of the Society of Environmental Toxicology and Chemistry (SETAC), Nashville, TN. November 17–21.
- Devine, J., J. Vignier, B. Denkert, L. Donaghy, L. Haynes, A.K. Volety, P. Soudant, F.L.E. Chu, J.M. Morris, M.W. Carney, J. Lipton, and D. Cacela. 2012. Effect of Artificially Weathered Oil from *Deepwater Horizon* Oil Spill and Dispersants on the Early Life Stages of Oysters. 33rd Annual Meeting of the Society of Environmental Toxicology and Chemistry (SETAC), Long Beach, CA. November 11–15.
- Haynes, L., L. Castret, L. Donaghy, A. Griffith, N. Martin, A.K. Volety, P. Soudant, F.L.E. Chu, J.M. Morris, M.W. Carney, J. Lipton, and D. Cacela. 2012. Biological Responses of the Eastern Oyster, *Crassostrea virginica*, Exposed to *Deepwater Horizon* Oil and Dispersants via Dietary Pathways. 33rd Annual Meeting of the Society of Environmental Toxicology and Chemistry (SETAC), Long Beach, CA. November 11–15.
- Morris, J.M., A. Maest, A. Craven, and J. Lipton. 2012. Site-Specific Issues with Applying the BLM to Evaluate Cu Toxicity: Overestimation of Cu-DOC Complexation and Model Anomalies in Low Hardness Waters. 33rd Annual Meeting of the Society of

- Environmental Toxicology and Chemistry (SETAC), Long Beach, CA. November 11–15.
- Morris, J.M., A. Maest, A. Craven, and J. Lipton. 2012. The Biotic Ligand Model: Unresolved Scientific Issues and Site- and Species-Specific Effects on Predicted Cu Toxicity. U.S. Environmental Protection Agency, Hard Rock Mining Conference: Advancing Solutions for a New Legacy, Denver, CO. April 3–5.
- Morris, J., J. Peers, J. Lipton, C. Schreck, R. Chitwood, and J. Unrein. 2012. Contaminated Sediment Affects Burrowing Behavior of Pacific Lamprey (*Lampetra tridentata*) Ammocoetes. Presented at the 33rd Annual Meeting of Society of Environmental Toxicology and Chemistry, Long Beach, CA. November 11–15.
- Roberts, A.P., J.T. Oris, M.M. Alloy, A. Tucker, T. Curran, D. Baxter, M. Grosell, R. Griffith, A. Volety, D. Cacela, J. Lipton, and J. Morris. 2012. Photoenhanced Toxicity of WAF Oil to Early Lifestages of Gulf of Mexico Aquatic Species. 33rd Annual Meeting of the Society of Environmental Toxicology and Chemistry (SETAC), Long Beach, CA. November 11–15.
- Vignier, L., B. Denkert, J. Devine, L. Haynes, L. Donaghy, A.K. Volety, P. Soudant, F.L.E. Chu, J.M. Morris, M.W. Carney, J. Lipton, and D. Cacela. 2012. Evaluation of Toxicity of *Deepwater Horizon* Oil and Dispersant on Gametes of the Oyster *Crassostrea virginica*: Embryogenesis and Larval Development. 33rd Annual Meeting of the Society of Environmental Toxicology and Chemistry (SETAC), Long Beach, CA. November 11–15.
- Morris, J., J. Peers, J. Lipton, C. Schreck, R. Chitwood, and J. Unrein. 2011. Toxicity of Portland Harbor Sediments to Pacific Lamprey Ammocoetes (*Lampetra tridentata*). Presented at the 32nd Annual Meeting of Society of Environmental Toxicology and Chemistry, Boston, MA. November 13–17.
- Peers J., J. Morris, J. Lipton, C. Schreck, R. Chitwood, and J. Unrein. 2010. Toxicity of Portland Harbor Sediments to Pacific Lamprey Ammocoetes (*Lampetra tridentata*): Experimental Design. Presented at the 31st Annual Meeting of Society of Environmental Toxicology and Chemistry, Portland, OR. November 7–11.
- Lane, D. and J. Lipton. 2008. Using a Logic Model Framework to Develop an Effective Post-Restoration Monitoring Plan (poster presentation). Special Symposium on Approaches for Effective Ecological Restoration Monitoring. Society for Environmental Toxicology and Chemistry 2008 Annual Meeting, Tampa, FL. November 16–20.
- Lipton, J., K. Ritter, A. Maest, and C. Mebane. 2006. Evaluating Acute Cu Toxicity to Rainbow Trout: Cu-DOC Complexation and the BLM. Presented at SETAC Europe 16th Annual Meeting, The Hague, The Netherlands. May 7–11.
- LeJeune, K., D. Atkins, and J. Lipton. 2005. Communicating Water Quality Risks Associated with Mining to a Skeptical Public. Platform presented at the Annual Meeting of the Society of Environmental Toxicology and Chemistry-Europe, Lille, France. May 23–26.
- Lipton, J., K. LeJeune, and A. Maest. 2005. Evaluating Baseline Water Quality at the Yanacocha Mine, Cajamarca, Peru. Poster presented at the Annual Meeting of the

Society of Environmental Toxicology and Chemistry-Europe, Lille, France. May 23–26.

- Hansen, J.A., J. Lipton, and D. Cacela. 2003. Exposure of Rainbow Trout to Live Diets Contaminated with Metals: I. Growth Effects. Platform presented at the Annual Meeting of the Society of Environmental Toxicology and Chemistry, Austin, TX. November.
- Lipton, J. and J.A. Hansen. 2003. Exposure of Rainbow Trout to Live Diets Contaminated with Metals: II. Metal Residues and Histology. Poster presented at the Annual Meeting of the Society of Environmental Toxicology and Chemistry, Austin, TX. November.
- Hansen, J.A., J. Lipton, P.G. Welsh, and D. Cacela. 2002. Exposure of Rainbow Trout to Live Invertebrate Diets Pre-Exposed to Metal-Contaminated Sediments. Poster presented at the 23rd Annual Meeting of the Society of Environmental Toxicology and Chemistry, Salt Lake City, UT. November 16–20.
- Lipton, J., J.A. Hansen, and D. Cacela. 2002. Assessing Risks of Metal Contaminated Sediments to Trout: Diet Toxicity Studies. Platform presented at the 12th Annual Meeting of SETAC-Europe, Vienna, Austria. May 12–16.
- Beltman, D.J., J. Lipton, and S. Bickel. 2001. A Review of Field Studies on PCB Impacts to Birds in Green Bay, Lake Michigan, USA. Poster presented at 11th Annual Meeting of SETAC-Europe, Madrid, Spain. May 6–10.
- Hansen, J.A., P.G. Welsh, K. Neptun, and J. Lipton. 2001. Approaches to Evaluating Effects of Metal-Contaminated Sediments on Rainbow Trout. Platform presented at 11th Annual Meeting of SETAC-Europe, Madrid, Spain. May 6–10.
- Lipton, J., J.A. Hansen, T. Podrabsky, and K. LeJeune. 2001. Evaluation of Toxic Effects of Metals to Fish in the Coeur d'Alene River Basin, ID. Poster presented at the 22nd Annual Meeting of the Society of Environmental Toxicology and Chemistry, Baltimore, MD. November 11–15.
- Lipton, J., J.A. Hansen, P.G. Welsh, and D. Cacela. 2001. Relationship between Whole-Body Copper Residues and Growth Effects in Two Salmonids. Platform presented at the 22nd Annual Meeting of the Society of Environmental Toxicology and Chemistry, Baltimore, MD. November 11–15.
- Lipton, J., M. Anderson, A. Grêt, D. Cacela, and D.J. Beltman. 2001. Evaluation of Biomarker Responses of Smallmouth Bass Collected from a PCB-Contaminated River. Poster presented at 11th Annual Meeting of SETAC-Europe, Madrid, Spain. May 6–10.
- Beltman, D.J., J. Lipton, and S. Bickel. 2000. A Comprehensive Review of Field Studies on PCB Impacts to Birds in Green Bay, Lake Michigan. Poster presented at the 21st Annual Meeting of the Society of Environmental Toxicology and Chemistry, Nashville, TN. November 12–16.
- Beltman, D., J. Lipton, and S. Bickel. 2000. Evaluation of Adverse Effects of PCB Exposure on Fish Health and Reproduction in Green Bay, Lake Michigan. Presented

- at the 21st Annual Meeting of Society of Environmental Toxicology and Chemistry, Nashville, TN. November 12–16.
- Lipton, J., J.A. Hansen, and P.G. Welsh. 2000. Are Water Quality Criteria for Metals Protective of Pacific Northwest Salmonids? Platform presentation at the 21st Annual Meeting of the Society of Environmental Toxicology and Chemistry, Nashville, TN. November 12–16.
- Hansen, J.A., M. Barron, and J. Lipton. 2000. A Review of Critical Body Residues Found in the Literature. Poster presented at the 21st Annual Meeting of the Society of Environmental Toxicology and Chemistry, Nashville, TN. November 12–16.
- Hansen, J.A., J. Lipton, and P.G. Welsh. 2000. Acute Responses of Bull Trout (*Salvelinus confluentus*) to Cadmium, Copper, and Zinc. Poster presented at the Third SETAC World Congress 10th Annual Meeting of SETAC-Europe, Brighton, UK. May 21–25.
- Hansen, J.A., J. Lipton, and P.G. Welsh. 2000. Effects of Cadmium and Copper on Bull Trout (*Salvelinus confluentus*) in Subchronic Exposures. Poster presented at the Third SETAC World Congress 10th Annual Meeting of SETAC-Europe, Brighton, UK. May 21–25.
- Hansen, J.A., J. Lipton, and P.G. Welsh. 2000. Subchronic Toxicity of Cadmium to Bull Trout. Platform presentation at the 21st Annual Meeting of the Society of Environmental Toxicology and Chemistry, Nashville, TN. November 12–16.
- Hansen, J.A., P.G. Welsh, and J. Lipton. 2000. Relationship between Copper Exposure, Growth, and Tissue Accumulation in Rainbow Trout and Bull Trout during Subchronic Exposures. Platform presentation at the 21st Annual Meeting of the Society of Environmental Toxicology and Chemistry, Nashville, TN. November 12–16.
- Lipton, J., D. Beltman, and S. Bickel. 2000. Evaluation of Adverse Effects of PCB Exposure on Health and Reproduction on Fish in Green Bay, Lake Michigan (USA). Presented at the Third SETAC World Congress 10th Annual Meeting of SETAC-Europe, Brighton, UK. May 21–25.
- Lipton, J., J.A. Hansen, P.G. Welsh, and D. Cacela. 2000. Critical Body Residues for Metals: Evaluation of Relationship between Copper Accumulation and Effects in Rainbow and Bull Trout. Poster presented at the 21st Annual Meeting of the Society of Environmental Toxicology and Chemistry, Nashville, TN. November 12–16.
- Lipton, J., J.A. Hansen, P.G. Welsh, and D. Cacela. 2000. Relationship between Water Exposure, Tissue Residues, Growth, and Mortality of Rainbow Trout (*O. mykiss*) Exposed to Copper. Poster presented at the Third SETAC World Congress 10th Annual Meeting of SETAC-Europe, Brighton, UK. May 21–25.
- Welsh, P.G., J.A. Hansen, and J. Lipton. 2000. Acute Toxicity and Relative Sensitivity of Bull Trout and Rainbow Trout to Cadmium and Zinc. Poster presented at the 21st Annual Meeting of the Society of Environmental Toxicology and Chemistry, Nashville, TN. November 12–16.

- Welsh, P.G., J. Lipton, and J.A. Hansen. 2000. Determining Site-Specific Bioavailability and Toxicity of Metals to Aquatic Biota. Platform presentation at the 21st Annual Meeting of the Society of Environmental Toxicology and Chemistry, Nashville, TN. November 12–16.
- Welsh, P.G., G. Chapman, J.A. Hansen, and J. Lipton. 2000. Ionic Composition of Reconstituted Laboratory Water and Natural Surface Waters in the United States – Implications for Conducting and Interpreting Metal Toxicity Tests. Presented at ASTM Tenth Symposium on Environmental Toxicology and Risk Assessment, Toronto, Ontario. April 9–13.
- Anderson, M., M.G. Barron, D. Beltman, D. Cacela, J. Lipton, S.J. Teh, D.E. Hinton, J.T. Zelikoff, A.L. Dikkeboom, D.E. Tillitt, M. Holey, and N.D. Denslow. 1999. Association between PCBs, Liver Lesions, and Biomarker Response in Adult Walleye (*Stizostedium vitreum vitreum*) Collected from Green Bay. Presented at the 20th Annual Meeting of Society of Environmental Toxicology and Chemistry, Philadelphia, PA. November 14–18.
- Beltman, D., J. Lipton, D. Cacela, and S. Bickel. 1999. Spatial and Temporal PCB Patterns in Green Bay, Wisconsin. Presented at the 20th Annual Meeting of Society of Environmental Toxicology and Chemistry, Philadelphia, PA. November 14–18.
- Hansen, J.A., P.G. Welsh, J. Lipton, and T. Podrabsky. 1999. Acute Toxicity and Relative Sensitivity of Bull Trout (*Salvelinus confluentus*) to Copper. Presented at the Annual Meeting of the Society of Environmental Toxicology and Chemistry, Philadelphia, PA. November 14–18.
- Lipton, J. 1999. Natural Resource Damage Assessment in the United States. Presentation at the 9th Annual Meeting of Society of Environmental Toxicology and Chemistry-Europe, Leipzig, Germany, May 25–29. Prepared by Stratus Consulting Inc., Boulder, CO.
- Lipton, J., P.G. Welsh, and J.A. Hansen. 1999. Influence of Mediating Biological Factors in Assessing Copper Risks to Aquatic Biota. Presented at the 20th Annual Meeting of Society of Environmental Toxicology and Chemistry, Philadelphia, PA. November 14–18.
- Lipton, J., P. Welsh, J. Hansen, and S. Teh. 1999. Synergistic Toxicity of Copper and the Protozoan *Ichthyobodo sp.* to Rainbow Trout, *Oncorhynchus mykiss*. Presentation at the 9th Annual Meeting of Society of Environmental Toxicology and Chemistry-Europe, Leipzig, Germany, May 25–29. Prepared by Stratus Consulting Inc., Boulder, CO and the University of California, Davis.
- Lipton, J., P. Welsh, T. Podrabsky, and J. Hansen. 1999. Approaches to Evaluating Copper Risks to Aquatic Biota. Presentation at the 9th Annual Meeting of Society of Environmental Toxicology and Chemistry-Europe, Leipzig, Germany, May 25–29. Prepared by Stratus Consulting Inc., Boulder, CO.
- Lipton, J., P. Welsh, J. Hansen, T. Podrabsky, and R. Playle. 1999. Laboratory Studies Evaluating Biotic Ligand Models of Copper Toxicity to Rainbow Trout, *O. mykiss*: Gill Uptake Experiments. Presentation at the 9th Annual Meeting of Society of Environmental Toxicology and Chemistry-Europe, Leipzig, Germany, May 25–29.

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- Strange, E., H. Galbraith, D. Beltman, R. Jones, and J. Lipton. 1999. Ecological Maturation in Restored Salt Marshes. Presented at the 20th Annual Meeting of Society of Environmental Toxicology and Chemistry, Philadelphia, PA. November 14–18.
- Strange, E., H. Galbraith, D. Beltman, R. Jones, and J. Lipton. 1999. Restoration of Coastal Salt Marshes; “What is Success?” Presented at the 20th Annual Meeting of Society of Environmental Toxicology and Chemistry, Philadelphia, PA. November 14–18.
- Welsh, P.G., J. Lipton, J.A. Hansen, and T. Podrabsky. 1999. Derivation of Gill Residue Threshold Values for the Biotic Ligand Model. Presented at the 20th Annual Meeting of Society of Environmental Toxicology and Chemistry, Philadelphia, PA. November 14–18.
- Barron, M.G., R. Playle, P. Welsh, and J. Lipton. 1998. Calcium-Dependent Accumulation of Zinc on Rainbow Trout Gills. Presented at the Society of Toxicology, New Orleans, LA. March.
- Cacela, D., D. Beltman, and J. Lipton. 1998. Determining Similarity among PCB Congener Profiles from Sediment Samples Using a Simple Multivariate Distance Sample. Presented at Society of Environmental Toxicology and Chemistry 19th Annual Meeting, Charlotte, NC. November 15–19.
- Cacela, D., D. Beltman, and J. Lipton. 1998. Using PCB Congener Patterns to Identify PCB Sources. Presented at the Society of Environmental Toxicology and Chemistry 19th Annual Meeting, Charlotte, NC. November 15–19.
- Lipton, J. 1998. Injury Endpoint Selection in Natural Resource Damage Assessment. Society of Environmental Toxicology and Chemistry 19th Annual Meeting, Charlotte, NC. November 15–19.
- Lipton, J. and P.G. Welsh. 1998. Conducting Laboratory Studies to Evaluate the Site-Specific Toxicity of Cu. Society of Environmental Toxicology and Chemistry 19th Annual Meeting, Charlotte, NC. November 15–19.
- Lipton, J., P.G. Welsh, and R. Playle. 1998. Cu Uptake Kinetics and Critical Gill Cu Concentrations in Chinook Salmon Fry. Society of Environmental Toxicology and Chemistry 19th Annual Meeting, Charlotte, NC. November 15–19.
- Welsh, P.G., J. Lipton, and G. Chapman. 1998. Untested Assumptions in Water Effect Ratio Testing. Society of Environmental Toxicology and Chemistry 19th Annual Meeting, Charlotte, NC. November 15–19.
- Barron, M.G., J. Lipton, and R. Ricker. 1997. Comparison of Injury Thresholds to Field Exposure Concentrations for a Weathered Petroleum. Society of Environmental Toxicology and Chemistry, San Francisco, CA.
- Barron, M.G., E.E. Little, J. Lipton, and R.W. Ricker. 1997. Assessment of the Photoenhanced Toxicity of Petroleum. Arctic and Marine Oil Program, Vancouver, British Columbia, Canada.

- Hudson, R., P. Welsh, T.L. Podrabsky, J. Lipton, D. Cacela, J. Marr, and C. Huang. 1997. Changes in DOC Concentration and Metal Bioavailability in Static Renewal Metal Toxicity Tests with Rainbow Trout – Implications for Interpreting Test Results. Society of Environmental Toxicology and Chemistry, San Francisco, CA.
- Lipton, J. 1997. Injury Determination Approaches in Natural Resource Damage Assessment. American Society for Testing and Materials (ASTM), Symposium on Environmental Toxicology and Risk Assessment, ASTM Session, St. Louis, MO.
- Lipton, J., D. Cacela, J.C.A. Marr, J.S. Meyer, and J. Hansen. 1997. Acute Toxicity of Organically Complexed Cu to Rainbow Trout. 24th Annual Aquatic Toxicity Workshop, Niagara Falls, Ontario.
- Welsh, P.G., J. Lipton, T. Podrabsky, and R. Playle. 1997. Uptake Kinetics and Critical Gill-Cu Concentrations in Chinook Salmon Fry. 24th Annual Aquatic Toxicity Workshop, Niagara Falls, Ontario.
- Welsh, P.G., J. Lipton, D. Cacela, T.L. Podrabsky, R. Hudson, J. Mastrine, C. Huang, and G. Chapman. 1997. Calcium Concentration v. Water Hardness: Modifiers of Metal Toxicity to Aquatic Organisms. Society of Environmental Toxicology and Chemistry, San Francisco, CA.
- Anderson, M.J., M.G. Barron, S.A. Diamond, J. Lipton, and J.T. Zelikoff. 1996. Biomarker Selection for Restoration Monitoring of Fishery Resources. Environmental Toxicology and Risk Assessment: Modeling and Risk Assessment, Orlando, FL.
- Cacela, D., K. LeJeune, and J. Lipton. 1996. Use of Multivariate Statistical Analysis to Delineate the Extent of Metals Contamination in a Floodplain. Annual Meeting of the Society of Environmental Toxicology and Chemistry, Washington, DC. November.
- Galbraith, H., K. LeJeune, T. Podrabsky, and J. Lipton. 1996. Mass Mortality of Snow Geese in Southwest Montana due to Mining-Related Contaminants. Poster presentation at Society of Environmental Toxicology and Chemistry, Annual Meeting, Washington, DC. November.
- LeJeune, K., D. Cacela, D. Lane, and J. Lipton. 1996. Ecological Impacts of Mine Waste Contaminated Alluvial Soils on Indigenous Riparian Communities. Annual Meeting of the Society of Environmental Toxicology and Chemistry, Washington, DC. November.
- Lipton, J. 1996. What, No Cookbook?: Development of Ecological Risk Assessment Guidance. American Society for Testing and Materials (ASTM), Symposium on Environmental Toxicology and Risk Assessment. Orlando, FL. April.
- Beltman, D., J. Lipton, D. Cacela, and W. Clements. 1995. Effects of Metals on a Montane Aquatic System Evaluated Using an Integrated Assessment Approach. Annual Meeting of the Society of Environmental Toxicology and Chemistry, Vancouver, British Columbia, Canada. November.
- Hansen, J., H.L. Bergman, J.S. Meyer, R. MacRae, J. Marr, J. Lipton, and D. Cacela. 1995. The Avoidance of Copper by Salmonids as Affected by Metals Concentration, Organic Content, and Acclimation. Annual Meeting of the Society of Environmental

- Toxicology and Chemistry World Congress, Vancouver, British Columbia, Canada. November.
- Lipton, J. 1995. Assessing Bioavailability, Lethality, and Sub-Lethal Growth Effects of Copper and Cobalt on Salmonids in a Rocky Mountain Stream. Invited Seminar: National Fisheries Contaminant Research Center, National Biological Service, Columbia, MO.
- Lipton, J., J. Marr, and E.E. Little. 1995. Sub-Lethal Effects of Metals on Fish: Use as Endpoints in Natural Resource Damage Assessment. American Standards for Testing and Materials, 5th Symposium on Environmental Toxicology and Risk Assessment, Denver, CO.
- Lipton, J., K. LeJeune, D. Cacela, H. Galbraith, and T. Podrabsky. 1995. Impacts of Smelter Emissions on Vegetation Communities: The Identification of Causal Mechanisms. Annual Meeting of the Society of Environmental Toxicology and Chemistry, Vancouver, British Columbia, Canada. November.
- Lipton, J., J. Marr, D. Cacela, J. Hansen, and H.L. Bergman. 1995. Modeling Growth Responses of Rainbow Trout Fry as a Function of Tissue Copper Concentration and Copper Exposure Duration. Annual Meeting of the Society of Environmental Toxicology and Chemistry World Congress, Vancouver, British Columbia, Canada. November.
- Lipton, J., J. Marr, J.S. Meyer, J. Hansen, R. MacRae, A. Maest, and H.L. Bergman. 1995. Acute Lethality and Bioavailability of Copper in the Presence of Dissolved Organic Carbon. Society of Environmental Toxicology and Chemistry World Congress, Copenhagen, Denmark. June.
- MacRae, R., J.S. Meyer, J. Hansen, H.L. Bergman, A. Maest, J. Marr, D. Beltman, and J. Lipton. 1995. Determination of an Organic-Acid Analog of DOC for Use in Copper Toxicity Studies on Salmonids. Annual Meeting of the Society of Environmental Toxicology and Chemistry World Congress, Vancouver, British Columbia, Canada. November.
- Maest, A., D. Beltman, and J. Lipton. 1995. Temporal Variability in Metal Concentrations in a Mine-Impacted Stream: Implications for Metal Bioavailability. Annual Meeting of the Society of Environmental Toxicology and Chemistry World Congress, Vancouver, British Columbia, Canada. November.
- Marr, J., J. Lipton, D. Cacela, T. Podrabsky, J. Hansen, and H.L. Bergman. 1995. Acute Lethality of Cobalt, Copper, and Cobalt/Copper Mixtures to Rainbow Trout Fry. Annual Meeting of the Society of Environmental Toxicology and Chemistry World Congress, Vancouver, British Columbia, Canada. November.
- Marr, J., J. Lipton, A. Maest, D. Cacela, J.S. Meyer, J. Hansen, R. MacRae, and H.L. Bergman. 1995. Acute Lethality and Bioavailability of Copper in the Presence of Dissolved Organic Carbon. Annual Meeting of the Society of Environmental Toxicology and Chemistry World Congress, Vancouver, British Columbia, Canada. November.
- Meyer, J.S., D. Beltman, A. Maest, J. Marr, J. Lipton, C. Cors, D. Cacela, and R. MacRae. 1995. Use of Geochemical and Toxicity Modeling to Predict Lethality of

- Copper in a Metals-Impacted Stream. Annual Meeting of the Society of Environmental Toxicology and Chemistry World Congress, Vancouver, British Columbia, Canada. November.
- Cacela, D. and J. Lipton. 1994. Phytotoxicity of Metal/Metalloid Contaminated Soils: Correlation Analysis to Determine Causality. Annual Meeting of the Society of Environmental Toxicology and Chemistry, Denver, CO. November.
- Galbraith, H., K. LeJeune, and J. Lipton. 1994. Contaminant Effects on Terrestrial Resources: Vegetation Community and Wildlife Habitat Evaluation. Annual Meeting of the Society of Environmental Toxicology and Chemistry, Denver, CO. November.
- Galbraith, H., J. Lipton, and K. LeJeune. 1994. Effects of Mine Wastes on Riparian Soils, Vegetation, Wildlife Habitat. Annual Meeting of the Society of Environmental Toxicology and Chemistry, Denver, CO. November.
- Kapustka, L., J. Lipton, and K. LeJeune. 1994. Phytotoxicity of Metals and Arsenic-Contaminated Soils. Annual Meeting of the Society of Environmental Toxicology and Chemistry, Denver, CO. November.
- LeJeune, K., J. Lipton, and H. Galbraith. 1994. Contaminant Effects on Terrestrial Resources: Sampling Design and Patterns of Soil Contamination. Annual Meeting of the Society of Environmental Toxicology and Chemistry, Denver, CO. November.
- Lipton, J., J. Marr, and E.E. Little. 1994. Use of Behavioral Endpoints in Natural Resource Damage Assessment. Annual Meeting of the Society of Environmental Toxicology and Chemistry, Denver, CO. November.
- Little, E.E., A.J. DeLonay, J. Lipton, and E. Smith. 1994. Behavioral Factors Influencing Spatial Distributions of Fish in Contaminated Environments. Annual Meeting of the Society of Environmental Toxicology and Chemistry, Denver, CO. November.
- Marr, J.C.A., A.M. Farag, H.L. Bergman, and J. Lipton. 1994. The Effects of Metals Found in the Clark Fork River, Montana, on Rainbow (*Oncorhynchus mykiss*) and Brown Trout (*Salmo trutta*). American Society for Testing and Materials (ASTM), 4th Symposium on Environmental Toxicology and Risk Assessment, Montreal, Quebec, Canada.
- Galbraith, H. and J. Lipton. 1992. Terrestrial Ecological Risk Assessment: Links between Phytotoxicity and Wildlife Habitat. Annual Meeting of the Society of Environmental Toxicology and Chemistry, Cincinnati, OH. November.
- Lipton, J. 1992. Assessment and Valuation of Ecosystem Perturbation: A Comparison of Methods. Society for Risk Analysis, San Diego, CA. December.
- Lipton, J. 1992. Natural Resource Damage Assessment and Ecological Risk Assessment: What Falls through the Cracks? Annual Meeting of the Society for Risk Analysis, San Diego, CA. December.
- Lipton, J. and H. Galbraith. 1992. Natural Resource Damage Assessment and Ecological Risk Assessment: A Comparison. Annual Meeting of the Society of Environmental Toxicology and Chemistry, Cincinnati, OH. November.
- Lipton, J. and H. Galbraith. 1992. Treatment of Uncertainty in Ecological Risk Assessment: Be Careful What You Wish For. Invited presentation at "Water Quality

Standards for the 21st Century.” U.S. Environmental Protection Agency sponsored conference, Las Vegas, NV. September.

Lipton, J., H. Galbraith, D. Wartenburg, and J. Burger. 1991. A Paradigm for Ecological Risk Assessment. Annual Meeting of the Society of Environmental Toxicology and Chemistry, Seattle, WA.

Lipton, J. 1990. Modeling Uncertainties in Health Risks from Ocean Dumping. Annual Meeting of the Society of Environmental Toxicology and Chemistry.

Lipton, J. 1990. Movement of Pollutants through a Marine Food-Web. Annual Meeting of the Natural Resources Modeling Association.

Lipton, J. 1989. Uncertainty in the Calculation of Human Health Risks Associated with the Consumption of Contaminated Seafood. Student Poster Award: Annual Meeting of the American Fisheries Society.

Lipton, J. 1986. Trading Plaices: Bilateral Trade and Management Implications of the Georges Bank Boundary Delimitation, Resource Economies in Emerging Free Trade, University of Maine. January.

PROFESSIONAL SERVICE

- Scientific Advisory Board, Advanced Environmental Research Institute, University of North Texas
- Research (Full) Professor, Colorado School of Mines
- Editorial Board, *Science of the Total Environment* (1999–2001)
- Editorial Board, *Environmental Toxicology and Chemistry* (1994–1996)
- Member, Society of Environmental Toxicology and Chemistry
- Member, American Fisheries Society
- Member, Expert Peer Review Panel on Ecological Risk Assessment, Department of Energy, Center for Risk Excellence (1997–1998)