

CURRICULUM VITAE

Christopher R. Perkins

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EDUCATION

Ph.D. Candidate *current* in Pathobiology and Veterinary Science, University of Connecticut, Storrs
M.S. 1996 in Natural Resources Management and Engineering, University of Connecticut, Storrs
(concentration in Wildlife Toxicology)
B.S. 1989 in Pathobiology, University of Connecticut, Storrs

PROFESSIONAL EXPERIENCE

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|--------------|---|---|
| 1999-Present | Academic Assistant II/ Laboratory Director | University of Connecticut, Storrs Center for Environmental Sciences & Engineering University of Connecticut, Storrs |
| 2002-2007 | Outreach Program Manager | Connecticut River Airshed Watershed Consortium – CRAWC University of Connecticut, Storrs |
| 2001-2007 | Outreach Program Manager | Hazardous Substance Research Center TOSC/ TAB program, USEPA Region 1 |
| 1998 – 1999 | Research Assistant III | Environmental Research Institute University of Connecticut, Storrs |
| 1995-1998 | Technical Assistant III | Environmental Research Institute University of Connecticut, Storrs |
| 1989-1991 | Research Associate | Department of Neurosurgery Hartford Hospital, Hartford, CT |

APPOINTMENTS/ CERTIFICATIONS

Environmental Laboratory Director, Certified by CT Department of Public Health
BioDiversity Research Institute, Science Council

PROFESSIONAL SOCIETIES/

The Society of Environmental Toxicology and Chemistry
The Society of Environmental Toxicology and Chemistry, North Atlantic Chapter

PUBLICATIONS

Savery, L.C., A.L. Holmes, M.C. Braun, D.C. Evers, i. Kerr, R. Payne, W.D. Thompson, C. Perkins, T. Zheng, C. Zhu, L. Benedict, J.P. Wise, Sr. 2013. Selenium Protects Against the Toxic Effects of Methylmercury in Sperm Whale (*Physeter macrocephalus*) Skin Cells. *Toxicological Sci. Accepted*

Yates, D.E., S.E. Angelo, D.C. Evers, J. Schmerfeld, M.S. Moore, T.H. Kunz, T. Divoll, S.T. Edmonds, C. Perkins, R. Taylor, and N.O. Driscoll. 2013. Mercury in bats from the Northeastern United States. *Env. Tox Chem. In Press.*

Yeudakimaua, A.V., A.A. Provasas, C.R. Perkins, J.D. Stuart. 2013. Solid phase extraction and QuEChERS sample preparation methods for rapid screening of polycyclic aromatic hydrocarbons in avian blood and egg tissue by UPLC-UV. *Analytical Letters. In Press.* DOI: 10.1080/00032719.2012.745084

- Hopkins, W.A., C. Bodinof, S. Budischak, C. Perkins. 2013. Nondestructive Indices of Mercury Exposure in Three Species of Turtles Occupying Different Trophic Niches Downstream from a Former Chloralkali Facility. *Ecotoxicology*. 22:22-32.
- Savery, L.C., D.C. Evers, S.S. Wise, C. Falank, J. Wise, C. Gianios, I. Kerr, R. Payne, W.D. Thompson, C. Perkins, T. Zheng, C. Zhu, L. Benedict, J.P. Wise. 2013. Global mercury and selenium concentrations in skin from free-ranging sperm whales (*Physeter macrocephalus*). *Sci Total Environm.* 450-451:59-71.
- Cristol, D.A., L. Savoy, W.C. Jordan, D.C. Evers, C.R. Perkins, R. Taylor, C.W. Varian-Ramos. 2012. Mercury in Waterfowl From a Contaminated River in Virginia. *J. Wildl. Mgmt.* 76(8):1617-1624.
- Evers, D.C., K.A. Williams, M.W. Meyer, A.M. Scheuhammer, K. Kenow, N. Schoch, N.M. Burgess, A. Gilbert, L. Siegel, R.J. Taylor, R. Poppenga, and C.R. Perkins. 2011. Spatial gradients of methylmercury for breeding common loons in the Laurentian Great Lakes region. *Ecotoxicology*. 20(7):1609-1625.
- Jin, L., Y. Zhang, J.P. Dombrowski, C.H. Chen, A. Provatas, L. Xu, C. Perkins, S. Suib. 2011. ZnO/La₂O₂CO₃ layered composite: A new heterogeneous catalyst for the efficient ultra-fast microwave biofuel production. *Appl. Catal. B: Environ.* 103(1-2):200-205.
- Wise, J.P. Sr., W.D. Thompson, S.S. Wise, C. LaCerte, J. Wise, C. Gianios, Jr., C. Perkins, T. Zheng, L. Benedict, M.D. Mason, R. Payne, I. Kerr. 2011. A global assessment of gold, titanium, strontium, and barium pollution using sperm whales (*Physeter macrocephalus*) as an indicator species. *J Ecosys Ecograph*. 1:101, doi:10.4172/2157-7625.1000101.
- Innis, C., C. Merigo, K. Dodge, M. Tlusty, C. Perkins, T. Herdt. 2010. Health evaluation of Leatherback Turtles (*Dermochelys coriacea*) in the northwestern Atlantic during direct capture and fisheries gear disentanglement. *Chelonian Conserv Bio*.9(2):205-222.
- Parnas, R., C. Perkins, J. Stuart. 2009. Catalyzing the development of a Biofuels Industry in Connecticut with an Integrated Testing Program. Connecticut Center for Advanced Technology. Final Project Report. 22pp.
- Wise, J.P. Sr., R. Payne, S.S. Wise, C. LaCerte, J. Wise, C. Gianios, Jr., D. Thompson, C. Perkins, T. Zheng, C. Zhu, L. Benedict, I. Kerr. 2009. A global assessment of chromium pollution using sperm whales (*Physeter macrocephalus*) as an indicator species. *Chemosphere*. 75(11):1461-1467.
- Evers, D.C., R.T. Graham, C.R. Perkins, R. Michener and T. Divoll. 2009. Mercury concentrations in the goliath grouper of Belize: An anthropogenic stressor of concern. *Endangered Species Res.* 7(3):249-256.
- Hopkins, W.A., C. Bodinof, S. Budischak, J. McCormick-Goodhart, and C. Perkins. 2008. Nondestructive indices of Hg exposure in three species of turtles occupying different trophic niches in the North Fork Holston River, Virginia. United States Fish and Wildlife Service. 152 pp.
- Innis, C., M. Tlusty, C. Perkins, S. Holladay, C. Merigo, E. S. Weber. 2008. Toxicologic evaluation of cold-stunned, juvenile Kemp's Ridley sea turtles (*Lepidochelys kempii*) from Cape Cod, Massachusetts, USA. *Chelonian Conserv Bio*. 7(2):230-9.
- Vokoun, J.C. and C. R. Perkins. 2008. Trend assessment of mercury contamination in fish tissue from Connecticut lakes. Final technical report. Connecticut Department of Environmental Protection. 49 pp.
- De Guise S., M. Goedken, B. Morsey, J. Maratea, I. Sidor, C. Perkins. 2008. Development of new methods to assess invertebrate immunology and immunotoxicology in aquaculture: oysters and lobsters as examples. *Int. J. Environm. Poll.* 33(4):365-380.

- Wise, J.P. Sr., S.S. Wise, S. Kraus, M. Grau, T.L. Chen, F. Shaffiey, C. Perkins, W.D. Thompson, T. Zheng, Y. Zhang, T. Romano, T. O'Hara. 2007. Hexavalent chromium is cytotoxic and genotoxic to the Northern Right Whale (*Eubalaena glacialis*) lung and testes fibroblasts. *Mutation Res.* 650:30-38.
- De Guise S., J. Maratea, E.S. Chang, C. Perkins. 2005. Resmethrin immunotoxicity and endocrine disrupting effects in the American lobster (*Homarus americanus*) upon experimental exposure. *J Shellfish Res.* 24 (3): 781-786.
- Perkins, C.R., R.W. Arnold, F. Nadim. 2005. Effects of PVC, cast iron and concrete conduit on concentrations of copper in storm water. *Urban Water J.* 2 (3): 183-191.
- Shaw, S.D., D. Brenner, A. Bourakovsky, C.A. Mahaffey, C.R. Perkins. 2005. Polychlorinated biphenyls and chlorinated pesticides in harbor seals (*Phoca vitulina concolor*) from the northwestern Atlantic coast. *Marine Poll. Bull.* 50 (10): 1069-1084.
- French, R, S. DeGuise, C. Perkins. 2005. Investigation of mosquito control agents in Long Island Sound water, sediment and lobsters and their effect on lobster health. Connecticut Department of Environmental Protection. Final Report. 17 pp
- Chen, H., X. Yang, and C. Perkins, 2004. Trend and Variability of total gaseous mercury (TGM) in the State of Connecticut, U.S.A. during 1997-1999. *Water, Air and Soil Pollution* 151: 103-116.
- De Guise, S., M. Goedken, B. Morsey, J. Maratea, I. Sidor, C. Perkins. 2004. Immunology and Immunotoxicology in *Aquaculture: Fundamental Meets Applied Research Aquaculture*.
- Mullen, T.E., S. Russell, M.T. Tucker, J.L. Maratea, C. Koerting, L. Hinckley, S. De Guise, S. Frasca, R.A. French, T.G. Burrage, C. Perkins. 2004. Paramoebiasis associated with mass mortality of American lobster *Homarus americanus* in Long Island Sound, USA. *J. Aquatic Anim. Health* 16:29-38.
- Shaw, S.D., D. Brenner, A. Bourakovsky, C.A. Mahaffey, C.R. Perkins. 2004. Persistent organic pollutants (POPs) in harbor seals (*Phoca vitulina concolor*) from the Northwestern Atlantic Coast. *Organohalogen Compounds* 66: 1581-1588.
- Trahiotis, M., C.R. Perkins, and S. Stapcinskaite. 2004. Connecticut Air Toxics Monitoring Program (5th Year). Department of Environmental Protection. Final Report. 18 pp.
- Perkins, C.R. and M. Trahiotis. 2004. Connecticut Air Toxics Monitoring Program (4th Year). Connecticut Department of Environmental Protection. Final Report. 17 pp.
- De Guise, S., J. Maratea, C. Perkins. 2003. Malathion immunotoxicity in the American lobsters (*Homarus americanus*) upon experimental exposure. *Aquatic Tox.* 66(4): 419-425.
- Luo, Y., X. Yang, R. Carley, C. Perkins. 2003. Effects of geographical location and land use on atmospheric deposition of nitrogen in the State of Connecticut. *Environmental Pollution* 124(3): 437-448.
- Nadim, F., R.J. Carley, C.R. Perkins, S. Liu, G.E. Hoag, A.M. Dahmani, P. Zack, F. Bartolomeo. 2003. A dynamic approach to site characterization and cleanup at sites contaminated with hazardous chemicals in Connecticut. *J Process Analy Chem & Real-Time Analysis.* 8(2): 32-39.
- Nadim, F., S. Stapcinskaite, M. Trahiotis, C.R. Perkins, R.J. Carley, S. Liu, X. Yang, 2003. The effect of precipitation amount and atmospheric concentrations on wet deposition fluxes of oxidized and reduced nitrogen species in Connecticut. *Water, Air, and Soil Pollution* 143(1-4): 315-335.
- Nadim, F, J. Iranmahboob, G. Hoag, C. Perkins, A. Dahmani. 2003. The effect of regional conflicts and political rivalries on the release of petroleum hydrocarbons to the environment. *Proceedings of 10th Annual International Petroleum Environmental Conference*, Houston, TX. Nov 11-14.

- Shaw, S.D., D. Brenner, C.A. Mahaffey, S. De Guise, C.R. Perkins, G.C. Clark, M.S. Denison, G.T. Wang. 2003. Persistent organic pollutants (POPs) and immune function in US Atlantic Coast harbor seals (*Phoca vitulina concolor*). *Organohalogen Compounds* 62: 220-223.
- Liu, S., Nadim, F., Perkins, C. Carley, R.J., Hoag, G.E., Lin, Y., Chen, L. 2002. Atmospheric mercury monitoring survey in Beijing, China, *Chemosphere* 48:97 - 107.
- Luo, Y.Z., X.S. Yang, R.J. Carley, C. Perkins. 2002. Atmospheric deposition of nitrogen along the Connecticut coastline of Long Island Sound: a decade of measurements. *Atmosph. Environ.* 36(28):4517-28.
- Perkins, C., R. Carley. 2002. A Preliminary Investigation of the effects of storm water conduit material on the concentration of copper in simulated storm water. Copper Development Assoc. Final Report. 12 pp.
- Carley, R., C. Perkins, M. Trahiotis. 2002. Toxics Air Study in Connecticut. Connecticut Department of Environmental Protection. Final Report. 27 pp.
- De Guise, S.D., S.D. Shaw, et al. 2001. Consensus statement – Atlantic coast contaminants workshop 2000. *Environ Health Perspect.* 109(12):1301-2.
- Nadim, F., M. Trahiotis, S. Stapcinskaite, C. Perkins, R. Carley, G. Hoag, and X Yang. 2001. Estimation of wet, dry, and bulk deposition of atmospheric nitrogen in Connecticut. *J. Environ. Monit.* 3:671-680.
- Nadim, F., C. Perkins, S. Liu, R. Carley, and G. Hoag. 2001. Long term investigation of atmospheric mercury contamination in Connecticut. *Chemosphere.* 45: 1033-1043.
- Carley, R.J., C.R. Perkins, M. Trahiotis, F. Nadim. 2001. Nitrogen deposition monitoring in Connecticut. CT Dept. Envr. Prot. Report. 39 pp.
- Carley, R.J., C.R. Perkins, M. Trahiotis, F. Nadim. 2001. Connecticut atmospheric mercury monitoring network. CT Dept. Envr. Prot. Final Report. 30 pp.
- Trahiotis, M., C. Perkins, and R.J. Carley. 2001. Preliminary analysis of 1999 PM_{2.5} levels in Connecticut. CT Dept. Envr. Prot. Final Report. 41 pp.
- Trahiotis, M., R. Carley, and C. Perkins. 2000. Toxics air study in Connecticut: Annual report. CT Dept. Envr. Prot. Annual Report. 25 pp.
- Boulanger, B, N. Nikolaidis, R. Carley, C. Perkins. 1999. Evaluation of the hydrologic and chemical mass balances of copper within an urban watershed. *Haz Industrial Wastes* 31: 539-548.
- Carley, R.J. and C.R. Perkins. 1999. Connecticut atmospheric mercury monitoring program. CT Dept. Envr. Prot. Report. 25 pp.
- Carley, R.J. and C.R. Perkins. 1999. The Connecticut atmospheric nitrogen monitoring program. CT Dept. Envr. Prot. Report. 24 pp.
- Hanten, R.P., R.M. Neumann, S.M. Ward, R.J. Carley, C.R. Perkins, and R. Pirrie. 1998. Relationship between the concentrations of mercury in largemouth bass and physical and chemical characteristics of Connecticut Lakes. *Trans. Amer. Fish. Society.* 127:807-818.
- Hanten, R.P., R.M. Neumann, S.M. Ward, R.J. Carley, C.R. Perkins, and R. Pirrie. 1997. Relationship between the concentrations of mercury in largemouth bass and physical and chemical characteristics of Connecticut Lakes. CT Dept. Envr. Prot. Report. 40 pp.

Perkins, C.R. 1997. Small mammal herbivory in a mitigated wetland system. Masters Thesis. University of Connecticut.

Perkins, C.R. and J.S. Barclay. 1997. Mobilization of organochlorine contaminants in wintering greater scaup. *J. Wildl. Mgmt.* 61(2):444-449.

Neumann, R., R.J. Carley, C.R. Perkins, and R. Pirrie. 1996. Preliminary assessment of total mercury concentrations in fishes from Connecticut water bodies. CT Dept. Envr. Prot. Report. 116 pp.

Perkins, C. R. And J. S. Barclay. 1995. Muskrats and marsh management in the manipulation of waterfowl habitat. In: W. Whitman, et. al., (eds.) *Waterfowl habitat restoration enhancement and management in the Atlantic Flyway*. Third ed. Environ. Manage. Comm., Atlantic Flyway Council Tech. Sec. and Delaware Div. Fish and Wildl., Dover, DE pp. I-15 to I-31.

Barclay, J. S., C. R. Perkins, M. E. Tomassone, And K. A. Eccleston. 1995. Declining populations of ducks and habitat quality in Long Island Sound. Final Report. CT DEP, Hartford, CT. 170pp.

Wagle, V.G., C.R. Perkins, A. Vallera. 1993. Is helmet use beneficial to motorcyclists? *J. Trauma.* 34(1):120-2.

Simon, R.H., S.Y. Ho, C.R. Perkins, J.S. D'Arrigo. 1992. Quantitative assessment of tumor enhancement by ultrastable lipid-coated microbubbles as a sonographic contrast agent. *Invest. Radiol.* 27(1):29-34.

PRESENTATIONS

Aragon-Jose, A.T., J. Bushey, C. Perkins, M. Mendes, G. Ulatowski. 2012. Mercury and monomethyl mercury in an urban stream impacted by combined sewer overflows in Hartford, Connecticut. Annual Meeting, Geological Society of America, Northeastern Section. March.

Bushey, J., A.T. Aragon-Jose, M. Mendes, C. Perkins, G. Ulatowski. 2012. Impact of CSO and stormwater runoff on water quality in urban streams. Annual Meeting, Geological Society of America, Northeastern Section. March.

C. Perkins, A. Provas, W. Seegar, M. Yates, G. Doney, D. Evers. 2012. PAHs from MC-252 in whole blood and RBCs from live-captured birds using ultra performance liquid chromatography (UPLC): Method development/ assessment. Annual Meeting, Society of Environmental Toxicology and Chemistry. Boston, MA. November.

C. R. Perkins, S. Stapcinskaite, J. D. Stuart, A. A. Provas. 2010. Quality Control of Biodiesel Fuel Utilizing Inductively Coupled Plasma Optical Emission Spectrometry and Energy Dispersive X-ray Fluorescence Spectrometry. Eastern Analytical Symposium and Exposition, Somerset, NJ, November.

C. R. Perkins, J. D. Stuart, R. S. Parnas, A. A. Provas. 2010. Analysis of Biodiesel and its Blends with Petroleum Diesel as an Alternative "Green" Fuel According to ASTM Methods. Eastern Analytical Symposium and Exposition, Somerset, NJ, November.

R. S. Parnas, J. D. Stuart, C. R. Perkins, A. A. Provas. 2010. Quality Testing of Biodiesel and its Blends with Petroleum Diesel as an Alternative "Green" Fuel According to ASTM Methodologies. Annual Meeting of the American Chemical Society, Boston, MA, August.

Stuart, J.D., R. S. Parnas, C. R. Perkins. 2009. University of Connecticut Use of Gas Chromatography (ASTM Method D 6584) for the Testing of Biodiesel, a State of Connecticut Research and Testing Initiative. Eastern Analytical Symposium, November.

Perkins, C. M. Levin, S. De Guise. 2008. The immunomodulatory effects of nanosilver upon in vitro exposure. Annual Meeting, Society of Environmental Toxicology and Chemistry. Tampa, FL. November.

Savoy, L., J. Schamber, D. Zweifhofer, D. Evers, B. Hoskins, H. Brant, C. Perkins, R. Taylor, K. Trust, J. Hall. 2008. Mercury concentrations in blood of molting and wintering harlequin ducks from Alaska. North American Sea Duck Conference. Quebec City, Canada. November.

Perkins, C. M. Levin, S. De Guise. 2007. The immunomodulatory effects of nanoparticles upon in vitro exposure. Annual Meeting, Society of Environmental Toxicology and Chemistry. Milwaukee, WI. November.

Perkins, C. M. Levin, S. De Guise. 2007. A preliminary assessment of the immunotoxic effects of nanomaterials upon in vitro exposure. Annual Meeting, Society of Environmental Toxicology and Chemistry, North Atlantic Chapter. Bristol, RI. June.

Perkins, C.R. and K. Hood. 2005. Overview of Outreach Projects in Region 1. Center for Hazardous Substances in Urban Environments TOSC/TAB meeting. Baltimore, MD. November.

Perkins, C.R. 2004. Overview of Outreach Projects in Region 1. Center for Hazardous Substances in Urban Environments TOSC/TAB meeting. Storrs, CT. November.

Shaw, S.D., D. Brenner, A. Bourakovsky, C.A. Mahaffey, C.R. Perkins. 2004. Persistent Organic Pollutants (POPs) in Harbor Seals (*Phoca vitulina concolor*) from the Northwestern Atlantic Coast. Dioxin 2004. Belin, Germany. September.

De Guise, S, Maratea, J, Perkins, C. 2004..Toxicity of pesticides used to control mosquitoes in the American lobster, *Homarus americanus*. Society of Environmental Toxicology and Chemistry Annual Meeting. Portland. November.

De Guise, S., J.L. Maratea, C.R. Perkins. 2004. Malathion Toxicity in American Lobsters. LIS Lobster Research Initiative – Working Meeting. Groton, CT. May.

Barclay, J.S., S. De Guise, M. Forzan, C.R. Perkins, A. Einarsson. 2002. Preliminary Comparison of Contaminants and Parasites in Greater Scaup from Iceland, Alaska, and Connecticut. Society of Environmental Toxicology and Chemistry Annual Meeting. Salt Lake City. November.

De Guise, S. J.L. Maratea, C.R. Perkins. 2002. Immunotoxicity of Malathion in the American Lobster (*Homarus americanus*) upon experimental exposure. Society of Environmental Toxicology and Chemistry Annual Meeting. Salt Lake City. November.

Perkins, C.R., R. French, S. De Guise. 2002. Investigation of Mosquito Control Agents in Long Island Sound and their effect Upon Lobster Health. Society of Environmental Toxicology and Chemistry Annual Meeting. Salt Lake City. November.

Shaw, S.D., D. Brenner, C.R. Perkins, M.S. Denison, and G.T. Waring. 2002. Persistent Organic Pollutants and Mercury in US Atlantic Coast Seals. Society of Environmental Toxicology and Chemistry Annual Meeting. Salt Lake City. November.

Perkins, C.R. 2002. Overview of Outreach Projects in Region 1. Center for Hazardous Substances in Urban Environments TOSC/TAB meeting. Baltimore. November.

Perkins, C., R. French, S. DeGuise. 2001. Investigation of mosquito control agents in Long Island Sound water, sediment, and lobsters and their effect on lobster health. Long Island Sound Lobster Health Symposium. Ronkonkoma, NY.

Perkins, C., R. Carley, P. DeFur. 2001. An assessment of pesticides, PCBs, Coplanar PCBs, Dioxin, and Mercury in Connecticut River Fish Populations. Society of Environmental Toxicology and Chemistry Annual Meeting. Baltimore, November.

Shaw, S.D. Brenner, S. De Guise, C. Perkins, G. Shopp, C. Hong, B. Bush, P. Graham, M. Deinson. 2001. Perinatal POP Exposure and Immune and Endocrine Alterations in Young Harbor Seals. Society of Environmental Toxicology and Chemistry Annual Meeting. Baltimore, November.

Zhao, L., C. Perkins, S. Liu, F. Nadim, R. Carley, I. Sidor, M. Pokras. 2001. Determination of Methylmercury, Ethylmercury, and Inorganic Mercury in Loon Tissues After Alkane Digestion, Extraction, and Ethylation. Society of Environmental Toxicology and Chemistry Annual Meeting. Baltimore, November.

Carley, R. J., Liu, S., and Perkins, C. 2001. Long Island Sound Study an Historical Perspective Bureau of Marine Management of Hainan Province, Haikou, Hainan Province, China, January.

Carley, R. J., Liu, S., and Perkins, C. 2001, Analytical methodology for Ambient Air Toxic Monitoring Program in Connecticut, Shenzhen Environmental Protection Bureau, Shenzhen, China, January.

Nadim, F., C. Perkins., and R. Carley. 2000. Temporal and Spatial Distribution of Atmospheric Mercury in Connecticut. Society of Environmental Toxicology and Chemistry Annual Meeting. Nashville, November.

Carley, R. J., Trahiotis, M. M., Perkins, C., and Nadim, F., 2000, Ambient Air Toxic Monitoring Program in Connecticut, City Environment International Conference 2000, Kaunas University of Technology, Kaunas, Lithuania, September.

Trahiotis, M., X. Yang, C. Perkins, F. Nadim, and R.J. Carley, 2000. Atmospheric deposition of nitrogen along the Connecticut coastline of Long Island Sound: A decade of measurements. Long Island Sound Conference, Stamford, CT, September.

Perkins, C.R., J.S. Barclay, and R.J. Carley. 1999. The Assessment of Contaminants in Wintering Greater Scaup on Northeastern National Wildlife Refuge Properties. Society of Environmental Toxicology and Chemistry Annual Meeting. Philadelphia, November.

Perkins, C.R. and R.J. Carley. 1999. The Connecticut Atmospheric Nitrogen Monitoring Program. Society of Environmental Toxicology and Chemistry Annual Meeting. Philadelphia, November.

Perkins, C., J. Barclay and R. Carley. 1999. The assessment of contaminants in wintering greater scaup on northeastern national wildlife refuge properties. Society of Environmental Toxicology and Chemistry Annual Meeting. Philadelphia, November.

Barclay, J. R. Carley, And C. Perkins. 1999. North American greater scaup as contaminant bioindicators. Proc. Soc. Env.Tox. & Chem. (SETAC Europe) An. Conf., Leipzig, Germany, May.

Perkins, C.,R: Carley, R.J. & Liu, S. 1999. The Connecticut Atmospheric Mercury Monitoring Program. 5th International Conference on Mercury as a Global Pollutant, Rio de Janeiro, Brazil, May.

RESEARCH GRANTS AND CONTRACTS

C. Perkins, S. De Guise, A. Provas. Sea Turtle Immunology and Analytical Chemistry. United States Geological Survey (USGS), 7/1/12 – 12/30/13, \$170,000.

C. Perkins. Analysis of the Common Loon for PAHs and Corexit Contamination. USGS, 1/1/12 – 8/30/12, \$6,000.

Bosker, T, C. Perkins, M. Willig. The impacts of wastewater from municipal wastewater treatment plants on fish health in the Quinnipiac River. Community Foundation for Greater New Haven, 1/1/12 – 12/31/12, \$17,994

M. Willig, C. Perkins, A. Provatas. An Assessment of PAHs and Corexit Contamination in the Fatty Tissues and Blood of Birds Nesting in Minnesota. State of Minnesota Department of Natural Resources, 2011 – 2014, \$66,000.

M. Willig, C. Perkins, A. MacKay, L. Shor, R. Parnas. Scientific, Technical, Research, Engineering, and Monitoring Support II (STREAMS II). EPA (The Cadmus Group, Inc. subcontract), 2011-2015, \$1,948,951.

S. De Guise, E. Ward, C. Perkins, M. Levin, R. Smolowitz. Direct lethal and sub-lethal effects of the oil dispersant Corexit® and oil in the Eastern Oyster. Morris Animal Foundation, 2011-2013, \$104,096.

M. Willig, C. Perkins, A. Provatas. ASTM Biofuel Testing Laboratory. AgriFuels, LLC., 2009-2014, \$30,000.

R. S. Parnas, J. D. Stuart, C. R. Perkins, A. A. Provatas. Preparation for DOE Biofuels Grant Through Enhanced Biofuels Testing Capability. University of Connecticut Faculty Large Grant Program, 2010, \$16,957.

Bushey, J. and C.R. Perkins. Investigation of elevated bacterial counts in Crandall Pond, Tolland, CT. Town of Tolland, CT. 7/1/2010 – 9/2011, \$15,200.

M. Willig and C. Perkins. Analytical Support to the Connecticut Department of Environmental Protection for the Long Island Sound Study and Ambient Water Quality Surveys. Connecticut Department of Environmental Protection, 2010-2013, \$708,000.

R. Parnas, J. Stuart, C. Perkins. Catalyzing the Development of a Biofuels Industry in Connecticut With an Integrated Testing Program, Connecticut Center for Advanced Technology, 1/9/09 – 12/31/09. Develop a biofuel testing laboratory for the State of Connecticut. \$616,609.

J. Bushey, C. Perkins, M. Willig. Dynamics of nitrogen loading and speciation in urban combined sewer catchments: An assessment of the effects of flow conditions. Connecticut Department of Environmental Protection, 1/1/09 – 12/31/11. Set up a storm water monitoring program within the City of Hartford. \$709,695

C. Perkins. Nanosilica inflammation and dosimetry at the cell level. UConn/CESE Multidisciplinary Graduate Student Award. 2007-2008. \$4,900.

T. Xie and C. Perkins. Continued Air Monitoring of Mercury from Phytoremediation Research. SAIC/ USEPA, 2005, \$7,500.

J. Clausen, C. Perkins. Connecticut Fine Particle Monitoring Network. Connecticut Department of Environmental Protection, 2005, \$86,400.

C. Perkins, A. Dahmani, T. Xie. Laboratory Analysis Service: Saline Water, Fresh Water, Biological Tissue, Soil and Sediment Samples. Connecticut Department of Environmental Protection, 2004-2009, up to \$400,000/ year.

C. Perkins, A. Dahmani. Air Monitoring of Phytoremediation Research. City of Danbury, CT, 2004, \$9,075.

A. Dahmani, C. Perkins, T. Xie, J. Clausen. Analytical Laboratory Services for Dept. of Public Works Environmental Testing. Connecticut Department of Public Works, 2004 – 2007, up to \$100,000/ year.

K. Huang, C.R. Perkins. Dieldrin Mobility Testing. LBG, Inc., 2003, \$45,000.

C. Perkins, A. Dahmani, K. Hood. Technical Outreach Services to Communities. US Environmental Protection Agency, 2002-2006. \$250,000.

C. Perkins, A. Dahmani, K. Hood. Technical Assistance to Brownfield Communities. US Environmental Protection Agency, 2002-2006. \$200,000.

G. Hoag,, F. Ogden, R. Neumann, C. Perkins, J. Starn, G. Warner. Long-Term Impact Analysis of the University of Connecticut's Fenton River Water Supply Wells on the Habitat of the Fenton River. University of Connecticut, 2002 - 2004, \$310,027.

C. Perkins. Laboratory Analyses for the National Coastal Assessment for Nutrients, Suspended Sediments, Sediment Grain Size, and Sediment TOC. USEPA, 2001-2005, \$68,300.

C. Perkins. Estuarine Assessment of Tissue and Sediment Samples for the National Coastal Assessment. USEPA, 2001-2004, \$259,000.

J. Clausen and C. Perkins. ERI/ CTDEP Laboratory Analyses for the USEPA Coastal 2000 Monitoring Program. Connecticut Department of Environmental Protection, 2001-2004, \$172,000.

G. Hoag, C. Perkins, A. Dahmani, K. Hood. Hazardous Substances Research Center: Center for Hazardous Substances in Urban Environments. US Environmental Protection Agency, 2001-2002. \$140,000.

R. Carley, C. Perkins and X. Yang. Connecticut Nitrogen Monitoring Network: Long term Trends. Connecticut Department of Environmental Protection, 2001-2002, \$42,782.

S. De Guise, R. French, S. Frasca, Jr., and C. Perkins. Determination of the Toxicity and Sublethal Effects of Selected Pesticides on the American Lobster (*Homarus americanus*). National Oceanic and Atmospheric Administration/ National Sea Grant, 2001-2004, \$140,000.

R. Carley and C. Perkins. Analytical Support for the Connecticut Fine Particle Monitoring Network. Connecticut Department of Environmental Protection, 2000-2002, \$133,400.

R. French, S. De Guise, and C. Perkins. Investigation of Mosquito Control Agents in Long Island Sound Ambient Water and Lobster Populations. Connecticut Department of Environmental Protection, 2000-2002, \$117,856.

R. Carley and C. Perkins. ERI/ CTDEP Laboratory Analyses for the USEPA Coastal 2000 Monitoring Program. Connecticut Department of Environmental Protection, 2000-2001, \$63,280.

R. French, S. De Guise, S. Frasca, S. Russel, C. Perkins, E. Beckwith, and B. Young. Assessment of the Cause(s) and Extent of Morbidity and Mortality of American Lobster (*Homarus americanus*) in Long Island Sound. Environmental Protection Agency, 2000-2001, \$98,097.

R. Carley and C. Perkins. Water Quality, Sediment, and Tissue Analysis and Assessment. Connecticut Department of Environmental Protection, 2000-2003, \$600,000.

R. Carley and C. Perkins. Connecticut River Fish Tissue Study. New England Interstate Water Pollution Control Commission, 2000-2001, \$63,800.

R. Carley, C. Perkins, and X. Yang. Connecticut Atmospheric Nitrogen Monitoring Survey. Connecticut Department of Environmental Protection, 2000-2001, \$84,000.

R. Carley and C. Perkins. Hartford Air Toxics Monitoring Program", Connecticut Resource Recovery Authority. 2000-2002, \$150,000.

R. Carley and C. Perkins. The Global Positioning of Leaking Underground Storage Tanks in Connecticut. Connecticut Department of Environmental Protection, 2000-2001, \$169,000.

R. Carley and C. Perkins. Air Toxics Monitoring/Photochemical Assessment Monitoring. Connecticut Department of Environmental Protection, 1998-2001, \$600,000.

R. Carley and C. Perkins. Analysis of Fine Particulate Matter (PM 2.5) Throughout Connecticut. Connecticut Department of Environmental Protection, 1998-2000, \$210,000.

INVITED PRESENTATIONS

Perkins, C. and K. Hood. 2005. Environmental Risk Assessment and Communication. USEPA New England All Grantees Workshop. Sturbridge, MA. August 9-10.

Perkins, C. 2005. Community Outreach in Environmental Programs: A Critical Link Between Scientists and the Public. Department of Civil and Environmental Engineering Seminar Series. University of Connecticut. April 29.

Perkins, C. 2005. The Connecticut Atmospheric Mercury Monitoring Program. The Waterbury Environmental Control Commission. April 28.

Perkins C. 2002. Connecticut Atmospheric Mercury Monitoring Program. Connecticut Department of Environmental Protection. SIPRAC Meeting. Hartford, January 10.

Trahioits, M., C. Perkins, and R.J. Carley, 2001. "Indoor Air Quality: Sampling and Analysis Techniques". Indoor Air Quality Workshop, United Technologies Research Center, June 4-5, 2001.

Perkins, C. 2001. Connecticut River Fish Tissue Study. New England Interstate Water Pollution Control Commission. Board of Directors Meeting, Rockport, ME, May 25.

Perkins, C. 2000. Organochlorine Residues in Finfish from Long Island Sound. Atlantic Coast Contaminants Workshop, Bar Harbor, ME, June 22-25.

COURSES TAUGHT

Lecture in "Nanotechnology and Occupational and Environmental Health" for Occupational and Environmental Health Policy. PUBH 380. UConn Health Center. 2009, 2011, 2013.

Lecture and Laboratory in "Environmental Analysis and Data Quality" for Civil and Environmental Engineering. CEE 270. 2008-2009.

North American Wildlife. NRME 217. University of Connecticut. Department of Natural Resources Management and Engineering. 1994, 1995.

Wildlife Ecology. NRME 378. University of Connecticut. Department of Natural Resources Management and Engineering. 1997.

SHORT COURSES/ WORKSHOPS

C. Perkins and K. Hood. 2005. Soil, Water and Air Testing. Environmental Justice Conference. Connecticut Coalition for Environmental Justice. Hartford, CT. October 29.

C. Perkins. 2001. Wildlife Toxicology: The Effects of Pollution on Wildlife. Wildlife Management Training Course, Institute of Policy and Scientific Information, Hartford CT. September.

C. Perkins. 2000. Emerging Environmental Issues in the Marine Environment: Environmental Endocrine Disrupters. China National Environmental Research Academy, Beijing China. April 24.

R. Carley and C. Perkins. 2000. Long Island Sound Water Quality: Methods and Trends. China National Environmental Research Academy, Beijing China. April 24.

R. Carley and C. Perkins. 1997. The Development of an Ambient Air and Atmospheric Deposition Network: The Connecticut Experience. China-Japan-US Environmental Monitoring Technologies Workshop at China National Environmental Monitoring Center Beijing China. June 21-23.

CONTINUING EDUCATION

“Geospatial Technologies at Work “ ArcGIS 9.0 training course. University of Connecticut Cooperative Extension Service. January 10-14, 2005.

“A Toolbox of Techniques to Generate Data for Ecological Risk Assessments - Characteristics, Costs and Case Studies” SETAC short course. Nov. 2004.

“Landscape and Regional Ecological Risk Assessment” SETAC short course. Nov. 2003.

“Environmental Justice Fundamentals” USEPA Region 1. 2003.

“Estrogen Mimics in Health and Disease” SETAC short course. Nov. 1999.

“Source Sampling for Pollutants” USEPA Air Pollution Training Institute. 1997.

OUTREACH AND TECHNICAL ASSISTANCE

Meriden, CT – Providing technical support to the city related to risk analysis of remediation and redevelopment plans for several Brownfields sites and risk communication. 2005-2007.

Passamaquoddy Tribe, Perry, ME – Providing technical support to the tribe on the preparation of a Quality Assurance Project Plan and analytical chemistry issues for a fish/shellfish monitoring and assessment project. 2004-5.

Newhall Coalition, Hamden, CT – Providing technical support and facilitation to the coalition. Reviewed technical documents and risk assessments and provided interpretation to the community. Involved in risk communication to the stakeholders. 2003-7.

City Council of Woburn, MA – External review of an Ecological Risk Assessment for the Aberjona River and Wells G&H Superfund Site and communicated potential risk to the stakeholders. 2003-5.

Hartford, CT: Your Health and Your Environment – Development of an informational web site and briefing book on environmental issues affecting citizens of Hartford. www.healthy.hartford.gov. 2001.

UNIVERSITY SERVICE

Faculty Search Committee. Water Quality Engineering, Department of Civil and Environmental Engineering, 2007.

Served as a Senior Thesis Advisor to Jeremy Bruno, Department of Civil and Environmental Engineering, on his project entitled, “A further study on mercury in fish oil supplements.” 2008.

AWARDS

Best Student Platform Presentation. 2007. Annual Meeting, Society of Environmental Toxicology and Chemistry, North Atlantic Chapter. Bristol, RI. June 13-15.