

Master of Science Graduate Students (1990 – Present)

The following is a list of former M.S. graduate students who conducted their research under the direction of Dr. Wayne Landis, former IETC Director, or requested his guidance on their thesis committee. Students are listed in descending chronological order with year of graduation and thesis advisor listed.

- Erika Whitney.** [Can Arbuscular Mycorrhizal Fungi Protect *Rubus Idaeus* from the Effects of Soil-borne Disease and Parasitic Nematodes?](#) December 2020. (Dr. Rebecca Bunn).
- Ethan Brown.** [Integrating Synthetic Biology Derived Variables into Ecological Risk Assessment Using the Bayesian Network – Relative Risk Model: Gene Drives to Control Nonindigenous *M. musculus* on Southeast Farallon Island.](#) June 2020. (Dr. Wayne Landis, Advisor).
- Steven R. Eikenbary.** [Incorporating Characteristics of Gene Drive Engineered *Ae. Aegypti* as Methods to Reduce Dengue and Zika Virus into the Bayesian Network – Relative Risk Model, Using Ponce, Puerto Rico, as a Case Study.](#) 2020. (Dr. Wayne Landis, Advisor).
- Eric J. Lawrence.** [Integrating Global Climate Change Stressors and Human Health and Well-being Endpoints into a Bayesian Network Relative Risk Model for the Skagit River, WA.](#) 2020. (Dr. Wayne Landis, Advisor).
- Valerie R. Chu.** [Using AOPs to Determine Population-Level Effects due to Pesticide Mixtures.](#) June 2018. (Dr. Wayne Landis, Advisor).
- Lara A. Gaasland-Tatro.** [Integration of Climate Change into the Estimation of Risk to the South River, VA.](#) June 2016. (Dr. Wayne Landis, Advisor).
- Scarlet E. Graham.** [Predicting Risk to Estuary Water Quality and Patters of Benthic Environmental DNA in Queensland, Australia using Bayesian Networks.](#) June 2016. (Dr. Wayne Landis, Advisor).
- Meagan J. Harris.** [Integration of Human Health and Ecological Risk Assessment for the South River, Virginia.](#) June 2015. (Dr. Wayne Landis, Advisor).
- Carlie E. Herring.** [Ecological Risk Assessment of Non-indigenous Species for the Padilla Bay National Estuary Reserve, WA.](#) August 2014. (Dr. Wayne Landis, Advisor).
- Annie F. Johns.** [Application of Bayesian networks to evaluation management scenarios for the South River, VA.](#) June 2014. (Dr. Wayne Landis, Advisor).
- Eleanor E. Hines.** [Risk Assessment for the Puyallup Watershed.](#) June 2013. (Dr. Wayne Landis, Advisor).
- Heather M. Summers.** [Risk Assessment at a Watershed Scale for the South River, VA.](#) 2012. (Dr. Wayne Landis, Advisor).
- Kim Kolb Ayre.** [Application of Bayesian Statistics and Networks to Risk Analysis.](#) December 2009. (Dr. Wayne Landis, Advisor).
- Catherine Bollinger.** [An Assessment of the Biotic Ligand Model in the Columbia River, BC and WA.](#) December 2008. (Dr. Ruth Sofield, Advisor).
- Jason C. Fortner.** [Illuminating Whole Effluent Toxicity Testing: Ultraviolet Radiation, Phototoxicity, and PAH-Contaminated Groundwater.](#) 2009. (Dr. Ruth Sofield Advisor).
- Laurel Kaminski.** [Watershed Scale Assessment of Freshwater Salmonid Production in Western Whatcom County.](#) March 2008. (Dr. Wayne Landis, Advisor).
- Suzanne Anderson.** [Risk Assessment for the INLAS Area of Oregon.](#) December 2007. (Dr. Landis, Advisor).
- Daniel Diedrich.** [An Assessment of Zinc Toxicity on Juvenile *Salmo trutta* \(brown trout\) of Different Chronological Ages and Sizes.](#) 2007. (Dr. Ruth Sofield, Advisor).
- Amanda Pfingst.** [Ecological Risk Assessment of the Androscroggin River, Maine.](#) March 2006 (Dr. Wayne Landis, Advisor).
- Valerie Chen.** [Ecological Risk Assessment of the Downstream Sections of the Androscroggin River, Maine.](#) December 2006. (Dr. Wayne Landis, Advisor).

- Christina M. Maginnus.** Screening-level Ecological Risk Assessment for Lake Whatcom, USA. December 2006. (Dr. Wayne Landis, Advisor).
- Goro Kushima.** Life Cycle Assessment for the Waste Treatment from Smelter Sites. June 2005. (Dr. Wayne Landis, Advisor).
- Audrey M. Colnar.** Regional Risk Assessment of the European Green Crab, *Carcinus maenas*, at Cherry Point, Washington. 2004. (Dr. Wayne Landis, Advisor).
- Julie Klacan.** Fish health and community structure in the Willamette and McKenzie Rivers. 2003. (Dr. Leo Bodensteiner, Advisor).
- Todd Dielman.** Fish Use of Backwaters in the Willamette River, Oregon. 2003. (Dr. Leo Bodensteiner, Advisor).
- Joy C. Chen.** Relative Risk Assessment Applied to the Squalicum Creek Watershed. March 2002. (Dr. Wayne Landis, Advisor).
- Emily Hart Hayes.** Regional Risk Model Ecological Risk Assessment using Alternative Endpoints for Cherry Point, WA. June 2002. (Dr. Wayne Landis, Advisor).
- Lori A. Lenart.** Terrestrial Microcosms. August 2002. (Dr. Peter Homann, Advisor)
- Jill F. Thomas.** An Evaluation of a Relative Risk Model Ecological Risk Assessment in Predictive Sustainability Modeling. August 2001. (Dr. Wayne Landis, Advisor).
- Matthew Luxon.** Relative Rank Risk Assessment Applied to the Willamette and McKenzie Rivers. 2000. Oregon (Dr. Wayne Landis, Advisor).
- Michael Anderson.** Investigation of New Detection Methods for Paralytic Shellfish Poisoning. 2000. (Dr. Wayne Landis, Advisor).
- Angela M. Obery.** Application of the Relative Risk Model for Codorus Creek Watershed Relative Ecological Risk Assessment: An Approach for Multiple Stressors. August 2000. (Dr. Wayne Landis, Advisor).
- Mark R. Downen.** Relation of Salmonid Survival, Growth and Outmigration to Environmental Conditions in a Disturbed, Urban Stream, Squalicum Creek. 1999. (Dr. Leo Bodensteiner, Advisor).
- Anne G. Fitzpatrick.** Sediment Contaminated Toxicity of Padilla Bay, An Intertidal Estuary of Washington. 1999. (Dr. John Hardy, Advisory).
- Louis M. Macovsky.** A Test of the Action at a Distance Hypothesis using Insect Metapopulations. 1999. (Dr. Wayne Landis, Advisor).
- Allene M. Whitney.** Effects of Fluoride on Humoral Immunity in *Eisenia fetida* (Annelida). 1998. (Dr. Ming-Ho Yu, Advisor).
- Barbara J. Bliss.** Estrogenicity of Nonylphenol in Early Life States of the Fathead Minnow *Pimephales promelas*. 1998. (Dr. Wayne Landis, Advisor).
- Leslie A. Kubin.** Growth of Juvenile English Sole Exposed to Sediments Amended with Aromatic Compounds. 1997. (Dr. Bert Webber, Advisor).
- Brenda Kate Krauss.** Reproductive Biology and Community Structure of *Carex pluriflora* at Dailey Prairie, Whatcom County, Washington. 1997. (Dr. Ronald Taylor, Advisor).
- Peter B. Lawson.** Effects of Fluoride on Superoxide Dismutase (SOD) Activity in the Earthworm *Eisenia fetida*. 1997. (Dr. Ming-Ho Yu, Advisor).
- Linda S. Mortensen.** Evaluation of Phytochelatin Production as an Exposure Biomarker for Metals through Laboratory Testing of Algae with a Heavy Metal Mixture and a Jet Fuel-Metal Mixture. 1997. (Dr. Wayne Landis, Advisor).
- Valerie J. Wilson.** Factors affecting the Apparent Toxicity of Jet Fuel to Earthworms. 1997. (Dr. Wayne Landis, Advisor).
- Virginia L. Harter.** The Use of *Nematostella vectensis* Stephenson in Aquatic Toxicity Bioassays: Setting the Ground Work. 1997. (Dr. Robin Matthews, Advisor).
- Catherine M. McNair.** Dynamic Deep Chlorophyll Maxima and their Association with Environmental Gradients: A Multivariate Analysis. 1996. (Dr. Robin Matthews, Advisor).

- Michael Roze.** Application of Computer Science to Environmental Assessment. 1996. (Dr. Geoff Matthews, Advisor).
- Sara C. Rodgers.** Comparison of Toxicant Response in Artificial and Natural Communities. 1996. (Dr. Wayne Landis, Advisor).
- Joseph M. Goulet.** Application of Monte Carlo Uncertainty Analysis to Ecological Risk Assessment. 1995. (Dr. Wayne Landis, Advisor).
- Sue A. Kelly.** Effects of Multiple Stressors on a Multispecies System. 1995. (Dr. Wayne Landis, Advisor).
- Catherine M. McNair.** Dynamic Deep Chlorophyll Maxima and their Association with Environmental Gradients: A Multivariate Analysis. 1995. (Dr. Robin Matthews, Advisor).
- Ruth M. Post.** Decomposition of *Acer macrophyllum* Leaves in the Profundal Zone of Lake Whatcom, Washington. 1995. (Dr. Robin Matthews, Advisor).
- Annette Zukowski-Pearson.** The Toxic Effects of Chlorine and Jet Fuel on the Fertilization and Development of the Echinoderm, *Dendraster excentricus*. 1995. (Dr. Robin Matthews, Advisor).
- Lorraine G. Wilde.** Effect of Fluoride on Superoxide Dismutase (SOD) Activity in Germinating Mung Bean Seedlings. 1995. (Dr. Ming-Ho Yu, Advisor).
- Lester W. Keel.** *Anthopluera* as a Monitor for the Environmental Impacts of Toxicants. 1994. (Dr. Wayne Landis, Advisor).
- Janice K. Wieggers.** Distribution of Chromium, Copper, Lead and Zinc in the Sediments and Macrophytes of Claypit Pond. 1994. (Dr. Robin Matthews, Advisor).
- Lennie Rae Cooke.** Characterization and Management of Lake Serene. 1994. (Dr. Wayne Landis, Advisor).
- April J. Markiewicz.** Comparison of the Biodegradation of Water Soluble Components in Jet Fuel using the Standardized Aquatic Microcosm (SAM) and the Mixed Flask Culture (MFC). 1994. (Dr. Robin Matthews, Advisor).
- Randy S. Sandberg.** Jet Fuel Toxicity with Sediments in Artificial Communities. 1993. (Dr. Wayne Landis, Advisor).
- Joan Pickens Vandersypen.** Evaluation of the Acid Volatile Sulfide Approach for Determining the Toxicity of Cadmium and Copper in a Freshwater Sediment. 1993. (Dr. Robin Matthews, Advisor).
- Lisa B. Saban.** Sediment Toxicity Assessment in Drayton Harbor, WA Using *Photobacterium phosphoreum*, *Dendraster excentricus*, and *Rhepoxynius abronius*. 1993. (Dr. Robin Matthews, Advisor).
- Adrian L. Klaver.** The Effect of Oxytetracycline on Nitrification in Water. 1993. (Dr. Robin Matthews, Advisor).
- Lori A. Farrow.** Use of Nonforested Patches by Elk in a Western Washington Watershed. 1992. (Dr. Wayne Landis, Advisor).
- Angela C. Matz.** Development of a Method for Monitoring Chemical Contamination Using Galliform Chicks. 1992. (Dr. Wayne Landis, Advisor).
- Ruth M. Noellgen.** Characterization of the Aquatic Organophosphate Acid (OPA) Anhydrase in the Marine Mussel, *Mytilus edulis*. 1991. (Dr. Wayne Landis, Advisor).
- Brian Westra.** Investigation and Characteristics of Organophosphate Acid Anhydrases in Chicken Liver and Kidney Tissue. 1991. (Dr. Wayne Landis, Advisor).
- Jennifer DeBert Hastings.** Impacts of Prenatal Methylmercury Exposure on Behavior in Rats. 1991. (Dr. Wayne Landis, Advisor).
- Margaret R. McLean.** Aquatic Toxicity Testing Using Chlorinated Phenolics that are Constituents of Pulp Mill Effluent: Using *Dendraster excentricus* and *Ceriodaphnia dubia*. 1990. (Dr. Robin Matthews, Advisor).
- Margaret J. Irwin.** Factors Affecting the Maintenance of Immunoglobulin Polymorphisms. 1990. (Dr. Joan Stevenson, Advisor).