

DELAWARE WATER RESOURCES CENTER

STUDENT RESEARCH CONFERENCE

University of Delaware Trabant Center
Multi-Purpose Room

February 9, 2001

8:30 *Registration, Coffee and Danish*

9:00 *Welcome and Overview of the Delaware Water Resources Center*
Dr. Tom Sims, Director, Delaware Water Resources Center

9:15 *Overview of the Delaware Water Resources Agency*
Gerald Kauffman, Delaware Water Resources Agency

9:30 *Undergraduate Research Opportunities at the University of Delaware*
Dr. Joan Bennett, Coordinator, Undergraduate Research Program

Graduate Fellowship Presentations

9:45 *On the Use of Nuclear Magnetic Resonance Spectroscopy to Determine Chemical Forms of Phosphorus in Soils: Implications for Phosphorus Mobility and Bioavailability*

Graduate Fellow: Stefan Hunger

Advisor: D. L. Sparks
Department of Plant and Soil Sciences
College of Agriculture and Natural Resources

10:00 *Land Use/Land Cover and Nutrient Discharges to Delaware's Inland Bays*

Graduate Fellow: Jennifer Jennings

Advisors: J. R. Scudlark, and W. J. Ullman
College of Marine Studies

10:15 *A Baseline Nutrient Budget for Sussex County, Delaware for Environmental Planning*

Graduate Fellow: Lynette Ward

Advisors: William Ritter, John Byrne, and Young-Doo Wang
Department of Bioresources Engineering
Center for Energy & Environmental Policy

10:30 Break

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Undergraduate Student Internship Poster Presentations

11:00 *Introduction of undergraduate student interns and advisors*
Cynthia Greene, Delaware Water Resources Center

Survival and Antibiotic Resistance of Fecal Bacteria in Alum-Amended Poultry Litter

Intern: Gregory Buckmaster

Advisor: Dr. Jeffrey Fuhrmann, Department of Plant and Soil Sciences

University of Delaware Experimental Watershed Project

Intern: Jennifer Campagnini

Advisor: Gerald Kauffmann, Delaware Water Resources Agency

Reference Wetlands for Functional Assessment

Intern: Maeve Desmond

Advisor: Dr. Bruce Vasilas, Department of Plant and Soil Sciences

The Distributive Effects of Using an Efficient Pricing Mechanism to Manage Water Quantity in New Castle County, Delaware

Intern: Robert Ehemann

Advisor: Dr. Joshua Duke, Department of Food and Resource Economics

Attitudes of Consumers Towards Bottled Water

Intern: Emily Gonce

Advisors: Drs. James Morrison and Hye-Shin Kim, Department of Consumer Studies

Biological Treatment of Industrial Wastewater

Intern: Jason Hetrick

Advisor: Anastasia Chirnside, Department of Bioresources Engineering

Composting Food Waste Residuals and Poultry Manure

Intern: Leigh Johnson

Advisor: Dr. William Ritter, Department of Bioresources Engineering

Ectomycorrhizal Mantles as Indicators of Hydrology

Intern: Anna Palermo

Advisor: Dr. Bruce Vasilas, Department of Plant and Soil Sciences

Diversity of the Atrazine Chlorohydrolase (atzA) Gene in Soil Microbial Communities as a Function of Triazine Treatment History

Intern: Melissa Weitz

Advisor: Dr. Mark Radosevich, Department of Plant and Soil Sciences

12:00 *Lunch for students, advisors, and the DWRC Advisory Panel*

1:00 *Delaware Water Resources Center Advisory Panel Meeting*