United States 2010 Stockholm Junior Water Prize

State Winners

Alabama

Rebecca Daniels A Three Year Study of Phytoremediation Brooks High School Teacher - Vicki Farina Sponsored by the Alabama Water Environment Association

Alaska

Kaitelyn McDonald Seasonal Differences in Water Quality on Jordan and Duck Creek in Juneau Alaska Juneau Douglas High School Science Teacher - Jonathan Smith Sponsored by the Alaska Water Wastewater Management Association

Arizona

Scott Boisvert An Innovative Method to Evaluate the Effects of the Aquatic Environment on the Chemotaxis of the Amphibian Pathogen Batrachochytrium dendrobatidis Basha High School Science Teacher - Christina Jahr Sponsored by the Arizona Water and Pollution Control Association

Arkansas

James Rose Leaching Lead Phase 2 Alpena High School Science Teacher - Roger Rose Sponsored by the Arkansas Water Environment Association

California

Sumit Mitra

The Effect of Photosensitization of Fullerne-based Nanoparticles on Reactive Oxygen Species Generation and Toxicity to Viruses in Various Aqueous Environments University High School Science Teacher – David Knight Sponsored by the California Water Environment Association

Colorado

Ben Armstrong The Uptake of Endocrine Disrupting Chemicals Monte Vista High School Science Teacher – Gary Wilkinson Sponsored by the Rocky Mountain Water Environment Association

Connecticut

Joseph Bonavita Design and testing of two-step arsenic - remediating water filtration system Oxford High School Science Teacher - Dr. Frank LaBanca Sponsored by the New England Water Environment Association

Delaware

No Nominations Sponsored by the Chesapeake Water Environment Association

Florida

Collin McAliley Florida Harmful Algal Bloom Mitigation, Year 6: Effect of Cysteine Methyl Ester on the Bioaccumulation of Brevetoxin in Mercenaria mercenaria Clams Cocoa Beach Jr./Sr. High School Science Teacher - Scott McCord Sponsored by the Florida Water Environment Association

Georgia

Elizabeth Kornegay The Relationship Between Precipitation and Water Quality of the Ochlockonee River, Phase III Thomasville High Scholars Academy Science Teacher – Laura Kornegay Sponsored by the Georgia Association of Water Professionals

Hawaii

Robinson Bucaneg and William Fisher The Effect of Sari Filtration on Bacterial Content of Water Samples James Campbell High School Science Teacher - Marites Barangan Sponsored by the Hawaii Water Environment Association

Idaho

No Nominations Sponsored by the Pacific Northwest Clean Water Association

Illinois

Allison Ramsey Bioremediation: Comparing the Ability of PRP Powder and Miracle Gro the Enhance Oil Degradation Southeastern Jr./Sr. High Science Teacher - Carolyn Phillips Sponsored by the Illinois Water Environment Association

Indiana

John Barnes Acid Mine Drainage Remediation: A Novel Approach Phase II Northwestern High School Science Teacher - Patricia Zeck Sponsored by the Indiana Water Environment Association

lowa

Meghana Pagadala Nanotube Filters: A Practical Solution or Unrealistic Wonder Rivermont Collegiate Science Teacher - Linda Hampton Sponsored by the Iowa Water Pollution Control Association

Kansas

Erin Adams The Effects of Pharmaceutical Pollution on Aqautic Organisms Blue Valley North High School Science Teacher - Jan Cyr Sponsored by the Kansas Water Environment Association

Kentucky

Monica McFadden Nitrate Reduction in Simulated Nitrate Wastewater by Biobarrier Filtration Notre Dame Academy Science Teacher - Mary Ethel Parrott Sponsored by the Kentucky-Tennessee Water Environment Association

Louisiana

Emily Tassin The Salt Tolerance of Marsh Plants and Their Ability to Aid in Louisiana Coastal Restoration St. Joseph's Academy Science Teacher - Linda Messina Sponsored by the Louisiana Water Environment Association

Maine

Rebecca Ye Nanoparticle-amplified immunobiosensor enables excellent sensitivity in rapid detection of viable E. coli O157:H7 Bangor High School Science Teacher - Cary James Sponsored by the New England Water Environment Association

Maryland

Mikhail Slutskiy Wastewater Filtration Franklin High School Science Teacher - Kaitlin Spivak Sponsored by the Chesapeake Water Environment Association

Massachusetts

Amanda Fragata CO2 Kills Sea Creatures: The Effect of Carbon Dioxide on Oyster Shells Plymouth South High School Science Teacher - Kathy Marks Sponsored by the New England Water Environment Association

Michigan

Nicole Smith Researching a Relevant Remedy to Repair Riparian Residences: Exploring the Effectiveness of Ceratophyllum demersum and Lemna valdiviana in Absorbing Nitrates from Freshwater Sources Saginaw Arts and Sciences Academy Science Teacher - Matthew Miller Sponsored by the Michigan Water Environment Association

Minnesota

Logan Pallin Engineering a rain garden to control road run-off in Scanlon Creek and an assessment of rain gardens as the best storm water management practice-Phase IV Cloquet Senior High School Science Teacher – Dr. Cynthia Welsh Sponsored by the Central States Water Environment Association

Mississippi

No Nominations Sponsored by the Mississippi Water Environment Association

Missouri

Kishan Patel Developing a Microbial Fuel Cell for Application in Wastewater Treatment Facilities Camdenton High School Science Teacher - Chriss Reeves Sponsored by the Missouri Water Environment Association

Montana

Adair Borges The Effects of Nutrient Supplementation on In-Situ Bioremediation Billings Senior High School Science Teacher - Dawn Carson Sponsored by the Montana Water Environment Association

Nebraska

Nicholas Kinzer "A Prototype Sewage Treatment Plant Phase II" Lakeview High School Science Teacher - Edward Kinzer Sponsored by the Nebraska Water Environment Association

Nevada

No Nominations Sponsored by the Nevada Water Environment Association

New Hampshire

No Nominations Sponsored by the New England Water Environment Association

New Jersey

April Choi Effects of Bisphenol A on Rotifers and a Dipstick to Detect Bisphenol A Bergen County Academies Science Teacher - Donna Leonardi Sponsored by the New Jersey Water Environment Association

New Mexico

Spencer Kent Bioremedial Effects of Pleurotus Ostreatus on Endocrine-Disrupting Contaminants Albuquerque High School Science Teacher - Joan Newsom Sponsored by the Rocky Mountain Water Environment Association

New York

William Genova, Lauren Herrera, and Ijeamaka Anyene The Encapsulation of Alcanivorax borkumensis in a Gelatin Hydrogel Membrane for Water Filtration Purposes Brentwood High School Science Teacher - Rebecca Grella Sponsored by the New York Water Environment Association

North Carolina

Ankesh Madan An Investigation into the Aggregation, Deposition, and Mobility of Silver Nanoparticles through Porous Media North Carolina School of Science and Mathematics Science Teacher – Myra Halpin Sponsored by the North Carolina Water Environment Association

North Dakota

Patrick Gulan An Inquisition into the Hydro-Conditions of Tile Drainage Runoff Hankinson High School Science Teacher – Marcus Friskop Sponsored by the North Dakota Water Environment Association

Ohio

No Project Selected Sponsored by the Ohio Water Environment Association

Oklahoma

Nick Shepherd Tar Creek-Measuring the Recovery of a Superfund Stream Using Macroinvertebrates, and Two Types of Toxicity Tests Phase II Miami High School Science Teacher - Sally Fenska Sponsored by the Oklahoma Water Environment Association

Oregon

Laurie Rumker Toxicity of Surfactant, Degradation by Straight-Chain Hydrocarbon-Degraders and the Potential for Organoclay Biodegradation Oregon Episcopal School Science Teacher - Parmely Pritchard Sponsored by the Pacific Northwest Clean Water Association

Pennsylvania

Emily Goetz The Effects of a Low-Head Dam on Water Quality Trinity High School Science Teacher - Susan Sweeney Sponsored by the Pennsylvania Water Environment Association

Puerto Rico

Laura Roldán "A New Type of Stormwater Treatment System Based on Natural Remedies" Colegio Maria Auxiliadora Science Teacher - Maria Lopez Sponsored by the Puerto Rico Water & Environment Association

Rhode Island

Robert Checani How are Bodies of Water in Southern New England Affected by Eutrophication in Proximity to Sewage Treatment Plants? La Salle Academy Science Teacher - Leslie Martinelli Sponsored by the New England Water Environment Association

South Carolina

JaJa Liao Impact of di(2-ethylhexyl)phthalate (DEHP) on the Mortality, Growth, and Reproduction of Caenorhabditis elegans Wilson High School Science Teacher – Karen Herbert Sponsored by the Water Environment Association of South Carolina

South Dakota

No Project Selected Sponsored by the Water Environment Association

Tennessee

Gregory Markov Using algae and inorganic nitrogen-polluted water in a photobioreactor for biodiesel generation Franklin High School Science Teacher – Sergei Markov Sponsored by the Kentucky-Tennessee Water Environment Association

Texas

Lin Boynton Effect of Pharmaceutical Residues in Wastewater on Bioluminescent Dinoflagellates Bellaire High School Science Teacher - Anna Loonam Sponsored by the Water Environment Association of Texas

Utah

Albert Cui Novel Demonstration of CO2 Enhanced Precipitation Treatment of Heavy Metals in Wastewater Hillcrest High School Science Teacher – Jeff Salter Sponsored by the Water Environment Association of Utah

Vermont

Stephanie Chang Reduction of E. Coli and Phosphorus in Dairy Effluent through Steel Slag Filtration South Burlington High School Science Teacher - Curtis Belton Sponsored by the New England Water Environment Association

Virginia

Akshar Wunnava "The First Quantitative Projection of Extreme Precipitation: The Making of a Multi-Model Ensemble" Thomas Jefferson High School for Science and Technology Science Teacher - Robert Latham Sponsored by the Virginia Water Environment Association

Washington

Marley Iredale An Evaluation of Invasive Tunicates in Pleasant Harbor, Washington Sequim High School Science Teacher - Bryan Smelcer Sponsored by the Pacific Northwest Clean Water Association

West Virginia

Catherine Breault Reducing BOD in Wastewater Bishop Donahue Science Teacher - Robert Ball Sponsored by the West Virginia Water Environment Association

Wisconsin

Christopher Welker The Effects of Different Genera of Algae on the Phosphorus Excretion and Oxygen Depletion of Quagga Mussels (Dreissena Bugensis) Nicolet High School Science Teacher - Gary Stresman Sponsored by the Central States Water Environment Association

Wyoming

Sean Sylvester Effectiveness of Natural Aluminosilicates in the Removal of Heavy Metal Greybull High School Science Teacher - Joel Kuper Sponsored by the Rocky Mountain Water Environment Association