United States 2013 Stockholm Junior Water Prize

State Winners

Alabama

Yasminye Pettway

The Effects of Green Roofs on Stormwater Runoff Quality Alabama School of Fine Arts Teacher – Shawn Wade Sponsored by the Alabama Water Environment Association

Alaska

Chelsea Parrocha and Taylor Seitz

Potential Lateral Flow Test Design for the Detection of Paralytic Shellfish Poisoning Polaris K-12 Science Teacher – Aaron Kallas Sponsored by the Alaska Water Wastewater Management Association

Arizona

Katelyn Boisvert Using Environmental Waste as Adsorbents to Remove Contaminants from Water Chandler Preparatory Academy Science Teacher – Sarah Thompson

Sponsored by the AZ Water

Arkansas

Roshaneh Ali

Cleaning the Oil Spill: Part II Little Rock Central High School Science Teacher – Patrick Foley Sponsored by the Arkansas Water Environment Association

California

Emily Bettencourt and Vernon Wetzell

Water Desalinization using Capacitive Deionization with Graphene Electrodes De La Salle High School Science Teacher – Victoria Acquistapace Sponsored by the California Water Environment Association

Colorado

Hope Weinstein

Zero Valent Iron Nanoparticle Embedded Polyethersulfone Membranes for Water Filtration: Isolating Casting Parameters to Optimize Performance Fairview High School Science Teacher – Paul Strode Sponsored by the Rocky Mountain Water Environment Association

Connecticut

Gabrielle Liflander

Novel Creation of a Hydrocarbon-Soaking Paper for Remediation and Reuse of Soluble Light Hydrocarbon Contaminants in Water Greenwich High School Science Teacher – Andrew Bramante Sponsored by the New England Water Environment Association

Florida

Zachary Loeb

Preventing the Reproductive Failure of Aquatic Life from the Global Threat of Endocrine Disrupting Compounds through Catalytic Waste Water Treatment (Year 4) Viera High School Science Teacher – Elizabeth Youngs Sponsored by the Florida Water Environment Association

Georgia

Malcolm Barnard

Utilizing an Algal Filter to Improve Water Quality Johns Creek High School Science Teacher – Tim Maley Sponsored by the Georgia Association of Water Professionals

Hawaii

Summer Mundon

The Vapor Precipitator St. Andrews Priory Science Teacher – Crystal Stafford Sponsored by the Hawaii Water Environment Association

Illinois

Anna Gupta and David Lisk

An Egg-Based Water Filter IMSA Science Teacher – Mark Carlson Sponsored by the Illinois Water Environment Association

Indiana

Claire Rice

"Possible Effects of Graphene Oxide Ingestion on Behavior and Physiological Processes in Daphnia magna and the Developmental Effects of Graphene Oxide on Triop Eggs" John Adams High School Science Teacher – Nevin Longenecker Sponsored by the Indiana Water Environment Association

lowa

Kelsey Bryant

The Effectiveness of Moringa oleifera in Purification of Turbid Water Central Lee High School Science Teacher – Alicia Schiller Sponsored by the Iowa Water Pollution Control Association

Kansas

Kristen Spies

Desalination of Seawater for Irrigation of Greenhouse Food Crops in Isolated Coastal Deserts Blue Valley North High School Science Teacher – Janet Cyr Sponsored by the Kansas Water Environment Association

Kentucky

Monica McFadden

Biobarrier Filtration of Water Contaminants Notre Dame Academy Science Teacher – Sr. Mary Ethel Parrott Sponsored by the Kentucky-Tennessee Water Environment Association

Louisiana

Laurie Lyon

The Effect of the Closure of the Mississippi River Gulf Outlet (MRGO) on the Distribution of Salinity in Lake Pontchartrain St. Joseph's Academy Science Teacher – Linda Messina Sponsored by the Louisiana Water Environment Association

Maine

Nathan Dee

Spectrofluorometric Study on the Interaction between Pharmaceuticals and Dissolved Organic Carbon (DOC) in Water Bangor High School Science Teacher - Cary James Sponsored by the New England Water Environment Association

Maryland

Madelyn Golding and Bianca Ruspi Clearly Cloudy Sherwood High School Science Teacher – James Douglas Sponsored by the Chesapeake Water Environment Association

Massachusetts

Amy Kopec

Fleece in the Sea Wachusett Regional High School Science Teacher – Nicholas Guerin Sponsored by the New England Water Environment Association

Michigan

Michael Yu

Adsorption of Natural Organic Matter from Water Using Iron Oxide Columns Athens High School Science Teacher – Susan Masten Sponsored by the Michigan Water Environment Association

Minnesota

Samantha Woog

Designing a Novel Microbial Nanochemical Pathway for Aerobic Water Bioremediation John Marshall High School Science Teacher – Eric Stanslaski Sponsored by the Central States Water Environment Association

Mississippi

Elizabeth Moore

Biomonitoring of Weeks' Bayou Subwatershed -- Chemical and macroinvertebrate analyses show resilience to major stressors. Ocean Springs High School Science Teacher – Bryan Butler Sponsored by the Mississippi Water Environment Association

Missouri

Sara Abbett

Black is the New Green: Developing a Feasible Biochar Production System Tuscumbia High School Science Teacher – Constance Wyrick Sponsored by the Missouri Water Environment Association

Montana

Triston Isakson

Cutthroat Trout Re-Introduction Phase III- Modeling Fairfield Public School Science Teacher – Raimund Hahn Sponsored by the Montana Water Environment Association

Nebraska

Brooke Pieke

The Effect of Lemnaceae on the Reduction of Nitrates in the Shell Creek Newman Grove High School Science Teacher – Karen Malmkar Sponsored by the Nebraska Water Environment Association

Nevada

No winner

Entries did not meet competition qualifications

Sponsored by the Nevada Water Environment Association

New Hampshire

Deepika Kurup

UV-Vis Photocatalytic System that Purifies Water Even in Dark Nashua High School South Teacher – Linda Polewarczyk Sponsored by the New England Water Environment Association

New Jersey Michelle Moffa

A Point-of-Use Water Filter for Developing Countries – Year III: Improving Effectiveness, Practicality, and Sustainability of Arsenic-Removing Biosand Filters Holy Spirit High School Science Teacher – Donna Ljoka Sponsored by the New Jersey Water Environment Association

New Mexico

Jessica Cleal

The Growing Capabilities of Grey Water V.Sue Cleveland High School Science Teacher – Angelica Lopez Sponsored by the Rocky Mountain Water Environment Association

New York

Matthew Caito, Harrison Kyle, and Alexandra Yourdon Cascading Pre-filters for Bio-Sand Filters Clinton-Essex County 4H STEM Science Teacher – Matt Cauthorn Sponsored by the New York Water Environment Association

North Carolina Christie Jiang

Chitosan-modified Cellulose as Adsorbent to Collect and Reuse Nitrate from Groundwater North Carolina School of Science and Mathematics Science Teacher – Myra Halpin Sponsored by the North Carolina Water Environment Association

North Dakota Gage Metzen

Aquatic Plants: Today's Solution to River Pollution Hankinson Public School Science Teacher – Wendy Friskop Sponsored by the North Dakota Water Environment Association

Ohio

Alyssa Armstrong

The Effect of Sewage Sludge on Lettuce Growth and Earthworm Toxicity Canfield High School Science Teacher – Erin Angelo Sponsored by the Ohio Water Environment Association

Oklahoma

Leah Huling

Titanium Dioxide Nano- and Microparticles: Transport and Fate in Wastewater Treatment Systems Ada High School Science Teacher – Scott Huling Sponsored by the Oklahoma Water Environment Association

Oregon

Anirudh Jain

Sulfidation as a novel method to reduce toxicity of silver nanoparticle pollution Catlin Gabel School Science Teacher – Veronica Ledoux Sponsored by the Pacific Northwest Clean Water Association

Pennsylvania Maya Rao

A Microbial Approach to Quantification of Endocrine Disrupting Compounds Hempfield High School Science Teacher – Neal Kuhn Sponsored by the Pennsylvania Water Environment Association

Puerto Rico

Mario Font-Martin, Kiara Camareno-Vargas, and Viviana Gratacos- Blanco

Use of Rhizophora Mangle Propagules as Bioremediators of Soils and Water Bodies Infected by Staphylococcus Aereus: Sustainable Approach to Reduce Human Exposure to the Bacteria Robinson School Science Teacher –Dorimar Torres Sponsored by the Puerto Rico Water & Environment Association

Rhode Island

No winner

Entries did not meet competition qualifications

Sponsored by the New England Water Environment Association

South Carolina

Matthew Hunter

Anaerobic Biodegradation of 1, 2 Propanediol: A Preliminary Microcosm Study Academic Magnet High School Science Teacher – Katharine Roop Sponsored by the Water Environment Association of South Carolina

South Dakota

Jenna Duncan and Alyssa Steward

Micro and Macro Survey Analysis of Various Bodies of Water Northwestern Area Science Teacher – Denise Clemens Sponsored by the South Dakota Water Environment Association

Tennessee

Vijaya Dasari Purifying Bath Water for Iterative Use White Station High School Science Teacher – Crystal Davis Sponsored by the Kentucky-Tennessee Water Environment Association

Texas

Kushal Kadakia

Heavy Metal Removal Using Fe3O4 Nanoparticles II Clear Lake High School Science Teacher – Brenda Pinchbeck Sponsored by the Water Environment Association of Texas

Utah

Taylor Murdock Fingerprinting Oil Wells Wasatch High School Science Teacher – Kimberly Conlin Sponsored by the Water Environment Association of Utah

Vermont

Basundhara Murkherjee

The Effects of Aluminum Sulfate on Ceriodaphnia Dubia South Burlington High School Science Teacher - Curtis Belton Sponsored by the New England Water Environment Association

Virgin Islands Selesha Subniak

Salty Water to Tasty Water! The Good Hope School Science Teacher – Jane Coles Sponsored by the Virgin Island Water and Power Authority

Virginia

Valentina Lohr

Greening Greywater: Testing Filtration Systems to Protect Earthworm Food Supply H-B Thomas Jefferson High School for Science and Technology Science Teacher – Barbara Wood Sponsored by the Virginia Water Environment Association

Washington

Anjani Patel

Cleaning Up Various Oil Spills Using Bioremediation Cedarcrest High School Science Teacher – Jeff Wehr Sponsored by the Pacific Northwest Clean Water Association

West Virginia Peter Welker

Oxidative Attack and Elimination of Bisphenol A by Manganese Dioxide Parkersburg South HS Science Teacher – Michael Lutz Sponsored by the West Virginia Water Environment Association

Wisconsin

Sarah Organ and Isabella Cafaro

Reducing Escherichia coli and Fecal Coliform Contamination at South Shore Beach Divine Savior Holy Angels High School Science Teacher – Betty Jo Azpell Sponsored by the Central States Water Environment Association

Wyoming

Alex Henkle and Anna Henkle

The Effect of Bioremediation on Heavy Metals

NHS

Science Teacher – James Stith Sponsored by the Rocky Mountain Water Environment Association