

**United States 2007 State
Stockholm Junior Water Prize Winners**

Alabama

Meredith Daniels
"A Two Phase Study of Beach Erosion"
Brooks High School
Killen, Alabama
Science Teacher – Jeannene Daniels
Sponsored by the Alabama Water Environment Association

Alaska

Elise Sorum
"A Safe Harbor for the World"
Valdez High School
Valdez, Alaska
Science Teacher – Ruth Knight
Sponsored by the Alaska Water Wastewater Management Association

Arizona

Jingyuan Luo
"Toxicity and Bioaccumulation of Nanomaterials in Aquatic Species"
Hamilton High School
Chandler, Arizona
Science Teacher – Deborah Nipar
Sponsored by the Arizona Water and Pollution Control Association

Arkansas

Kristen Staples and Caleb Stovall
"Effects of Suburban Expansion on the Environment"
Arkansas School of Mathematics Science and the Arts
Hot Springs, Arkansas
Science Teacher – Fred Buzen
Sponsored by the Arkansas Water Environment Association

California

Margaret Yoo
"Phase III: The Removal of Ethylene Bromide / Dibromochloropropane – Saving the Future from
Yesterday"
Northwood High School
Irvine, California
Science Teacher – Lisa Fox
Sponsored by the California Water Environment Association

Colorado

Eric Keeling
"A Study on Rhizofiltration with Helianthus annuus and its Effect on Coal Bed Methane Produced
Water"
La Veta High School
La Veta, Colorado
Science Teacher – Patricia Keeling
Sponsored by the Rocky Mountain Water Environment Association

Connecticut

Samantha Schoepfer and Heather Leask
"The Impact of Park Clearing Along the Yantic River on Benthic Macroinvertebrate Populations"
Fields Memorial School
Bozrah, Connecticut
Science Teacher – Evelyn Brown
Sponsored by the New England Water Environment Association

Washington, DC

No Nominations
Sponsored by the Federal Water Quality Association

Delaware

No Nominations
Sponsored by the Chesapeake Water Environment Association

Florida

Leighton Norvell
"2nd Year Study: Can Microcystis aeruginosa, Anabaena flos-aquae, and Aphanizomenon flos
aquae be biologically controlled by isolating viruses from the environment?"
Lincoln Park Academy
Fort Pierce, Florida
Science Teacher – Gordon Phail
Sponsored by the Florida Water Environment Association

Georgia

Diana Cai
"Limitation Study: Examining the response of lake bacteria to eutrophication"
North Oconee High School
Bogart, Georgia
Science Teacher – Marie Saxon
Sponsored by the Georgia Association of Water Professionals

Hawaii

Marianne Agosto
"Phosphate Removal by Water Hyacinths in Different Conditions"
H.P. Baldwin High School
Kahului, Hawaii
Science Teacher – Barbara Huntley
Sponsored by the Hawaii Water Environment Association

Idaho

No Nominations
Sponsored by the Pacific Northwest Clean Water Association

Illinois

Eva Feldman
"Macroinvertebrates as Water Quality Indicators in the North Branch of the Chicago River"
Lincoln Park High School
Chicago, Illinois
Science Teacher – Patricia Riley
Sponsored by the Illinois Water Environment Association

Indiana

Michael Bill

“Coupled Advanced Oxidation Processes and Surface-Modified Photocatalysts for the Decolorization of Reactive Azo Dyes”

John Adams High School

South Bend, Indiana

Science Teacher - Nevin Longenecker

Sponsored by the Indiana Water Environment Association

Iowa

Megan Bartholomew

“The Natural Way: Effects of Typha Latifolia on Contaminated Freshwater Systems”

Central Lee High School

Montrose, Iowa

Science Teacher - Alicia Schiller

Sponsored by the Iowa Water Pollution Control Association

Kansas

Alex Severance

“The Effects of Precipitation Runoff on a Neighborhood Pond”

Shawnee Mission Northwest High School

Lenexa, Kansas

Science Teacher – Lynette Day

Sponsored by the Kansas Water Environment Association

Kentucky

Adria Schwarber

“Nitrate Removal by Cyperus papyrus L. in a Constructed Wetland”

Notre Dame Academy

Bellevue, Kentucky

Science Teacher – Mary Ethel Parrott

Sponsored by the Kentucky-Tennessee Water Environment Association

Louisiana

Jessica Brown

“Algae: A Growing Problem”

South Terrebonne High School

Bourg, Louisiana

Science Teacher – Gina Rhodes

Sponsored by the Louisiana Water Environment Association

Maine

Jennifer Rowe

“Identification and Quantification of Estrogen Receptor Agonists in Maine Lakes”

Bangor High School

Bangor, Maine

Science Teacher – Cary James

Sponsored by the New England Water Environment Association

Maryland

Jordyn Wolfand

“Effects of 17 α -ethinylestradiol on Male Competitive Courtship Behaviors and Secondary Sexual Characteristics in Fathead Minnows (*Pimephales promelas*)”

Montgomery Blair High School

Bethesda, Maryland

Science Teacher – Glenda Torrence

Sponsored by the Chesapeake Water Environment Association

Massachusetts

Matthew Pickart

“Effects of Petroleum Hydrocarbons on Salt Marsh Sediments”

Falmouth Academy

Falmouth, Massachusetts

Science Teacher – James Johnson

Sponsored by the New England Water Environment Association

Michigan

Amanda Bennett

“Great Invaders: The Effects of Invasive Species on Major Ecosystem Processes”

Marysville High School

Marysville, Michigan

Science Teacher - Ryan Rathje

Sponsored by the Michigan Water Environment Association

Minnesota

Gregory Thompson

“The Impact of Beaver Dams on Southeastern Minnesota Streams”

John Marshall High School

Rochester, Minnesota

Science Teacher – Eric Stanslaski

Sponsored by the Central States Water Environment Association

Mississippi

No Nominations

Sponsored by the Mississippi Water Environment Association

Missouri

Mackenzie Taylor

“Pharmaceutical Pollution: The Effects of Types of Filtration Systems on the Amount of Hormones Filtered Out”

West Platte R-II High School

Weston, Missouri

Science Teacher – Janel Coulson

Sponsored by the Missouri Water Environment Association

Montana

Brittany Blair and Valeska Schairer

“What's Wrong With O'Haire Reservoir? A Water Quality Study of the Sweet Grass Hills Watershed”

North Toole County High School

Sunburst, Montana and Shelby, Montana

Science Teacher – Lawrence Fauque

Sponsored by the Montana Water Environment Association

Nebraska

Laura Johnson

“The Phytoremediation of Bio-Solids using Lemna minor and Eichhomia crassipes”

Newman Grove Public School

Newman Grove, Nebraska

Science Teacher - Suzy Goedeken

Sponsored by the Nebraska Water Environment Association

Nevada

Dharti Bhakta

“The Effects of Nitrapyrin and Nitrogen-Based Fertilizers on Microbial Activity and Runoff Contamination by Nitrate under a Simulated Leaching System”

Elko High School

Elko, Nevada

Science Teacher – Jeff Wallock

Sponsored by the Nevada Water Environment Association

New Hampshire

No Nominations

Sponsored by the New England Water Environment Association

New Jersey

Brian Shell

“Enhancing Bioremediation of Polycyclic Aromatic Hydrocarbon Contaminated Sediments from Kearny Marsh, New Jersey”

High Technology High School

Aberdeen, New Jersey

Science Teacher – Michael Roche

Sponsored by the New Jersey Water Environment Association

New Mexico

Keely Goodgame

“An Economical, Portable, Pocket Sized, Arsenic Filtering Device”

San Jon High School

Logan, New Mexico

Science Teacher – Steve Goodgame

Sponsored by the Rocky Mountain Water Environment Association

New York

Demetra Tsiamis

“The Removal of Arsenic from Water Using Ground Clam Shells”

Bronx High School of Science

New York, New York

Science Teacher – Fanny Ennever

Sponsored by the New York Water Environment Association

North Carolina

Jeremy Feaster

“Pursuing low-cost water purification using a Titanium Dioxide Photocatalyst”

Harding University High School

Charlotte, North Carolina

Science Teacher – Magdalene McClain

Sponsored by the North Carolina Water Environment Association

North Dakota

Benjamin Sun

“Visualizing the Invisible: A Long-Term Water Quality Study of the Red River of the North and Data Assessment Using Microsoft Visual Basic”

Red River High School

Grand Forks, North Dakota

Science Teacher – Jenny Sun

Sponsored by the North Dakota Water Environment Association

Ohio

Jyotiraditya Sinha

“Developing a Nanofiber Filter to Eliminate Copper Ions from Water”

Hoover High School

Uniontown, Ohio

Science Teacher - Connie Hubbard

Sponsored by the Ohio Water Environment Association

Oklahoma

Hanna Huling

“Oxidation of Fluorescent Dye: Ground Water Cleanup”

Ada Junior High

Ada, Oklahoma

Science Teacher – Lynda Roberts

Sponsored by the Oklahoma Water Environment Association

Oregon

Myles Schmertzler

“Closed Water System Phytoremediation of Algal Bloom Causing Nutrients by *Cyperus alternifolia*”

Oregon Episcopal

Portland, Oregon

Science Teacher – Peter Langley

Sponsored by the Pacific Northwest Clean Water Association

Pennsylvania

Anastasia Roda

“Human Factor IV: The Impact of a Boiling Water Nuclear Reactor on the Plankton, Benthic and Biofouling Communities in the Reactor's Intake and Discharge Creeks”

Lancaster Catholic High School

Lancaster, Pennsylvania

Science Teacher – Vasantha Kittappa

Sponsored by the Pennsylvania Water Environment Association

Rhode Island

No Nominations

Sponsored by the New England Water Environment Association

South Carolina

Yupeng Liu

“Algicide Resistance in the Growth Rate and Toxin Production of a Coastal Harmful Algal Isolate,
Microcystis aeruginosa”

Academic Magnet High School

Charleston, South Carolina

Science Teacher – Rhett Nettles

Sponsored by the Water Environment Association of South Carolina

South Dakota

Lauren VanGerpen and Hayley Hento

“The Effect of Smoke on Polar Ice Caps”

Avon High School

Avon, South Dakota

Science Teacher - Paul Kuhlman

Sponsored by the South Dakota Water Environment Association

Tennessee

Richard Lee

“Effects of Land Use on Water Quality in Three Watersheds – 2 Year Study”

Cookeville High School

Cookeville, Tennessee

Science Teacher – Jennifer Williams

Sponsored by the Kentucky-Tennessee Water Environment Association

Texas

Helen D'Couto

“Removal of Heavy Metal Water Pollutants, Lead and Cadmium, Using Magnetite Nanoparticles”

Clear Lake High School

Houston, Texas

Science Teacher - Brenda Pinchbeck

Sponsored by the Water Environment Association of Texas

Utah

No Nominations

Sponsored by the Water Environment Association of Utah

Vermont

Alice Peng

“Effect of Stormwater on the Growth of Blue-Green Algae”

South Burlington High School

South Burlington, Vermont

Science Teacher - Curtis Belton

Sponsored by the New England Water Environment Association

Virginia

Matthew Higgs

“The Effect of Grey Water Disinfectants on Nitrate Levels Found in Grey Water”

Roanoke Valley Governor’s School

Roanoke, Virginia

Science Teacher – Gwen Sibert

Sponsored by the Virginia Water Environment Association

Washington

Marley Iredale

"Modeling Movement of Pharmaceuticals Through Riverbank Sediments"

Sequim High School

Sequim, Washington

Science Teacher – Paul Woodson

Sponsored by the Pacific Northwest Clean Water Association

West Virginia

Kelydra Welcker

"Quantification, Removal and Recovery of the Teflon® Surfactant APFO"

Parkersburg South High School

Parkersburg, WV

Science Teacher – Susan Smith

Sponsored by the West Virginia Water Environment Association

Wisconsin

Megan O' Brien

"The Light Factor: The relationship to bivalve shell composition and color"

Divine Savior Holy Angels High School

Whitefish Bay, Wisconsin

Science Teacher - Betty Jo Azpell

Sponsored by the Central States Water Environment Association

Wyoming

Ashley Sylvester

"An Evaluation of Perchlorate Exposure Impact On Brine Shrimp Mortality"

Greybull High School

Greybull, Wyoming

Science Teacher - Joel Kuper

Sponsored by the Rocky Mountain Water Environment Association

Puerto Rico

Jatnael Vega

"How Reliable is the Purifying Process of Commercial Bottled Waters"

Escuela Saqn German

San German, Puerto Rico

Science Teacher – Wanda Toro

Sponsored by the Puerto Rico Water & Environment Association