

# I-SWEEEP 2008 Results

## SENIOR DIVISION

## JUNIOR DIVISION

Gold Medalists received \$1,500.00 award.

Silver Medalists received \$1,000.00 award. Bronze Medalists received \$500.00 award.

Gold Medalists received \$500.00 award. Silver Medalists received \$300.00 award.

Bronze Medalists received \$200.00 award.

{tab=Grand Award Winners}

## SENIOR DIVISION

Category  
Country  
State  
Student  
Project Title

Energy  
United States  
Texas  
Lyric Gillett  
Intensity And Temperature Variance In Sonoluminescence

Engineering  
United States  
New York  
Maritza Lagunas  
Analysis Of Reagents:study Of Phormia Regina Peptides For Antimicrobial Efficiency

Environment  
Argentina

Augusto Germán Niez Gay

## Propolis In Action-II

### JUNIOR DIVISION

Category  
Country  
State  
Student  
Project Title

Energy  
United States  
Texas  
Elizabeth Quigley  
'Round and 'Round It Goes: A Study Of How Winglets Affect Wind Turbines

Engineering  
United States  
Texas  
Benjamin Carroll  
Balancing The Wind

Environment  
United States  
Oregon  
Aishwarya Vardhana  
A Novel Method For Prevention Of Ecological Imbalance Due To Oil Contamination In Wetlands

{tab=Senior Energy}

### Gold Medalists

Country  
State

Student  
Student(2)  
Student(3)  
Project Title

United States  
Texas  
Lyric Gillett

Intensity And Temperature Variance In Sonoluminescence

United States  
Minnesota  
Ariah Klages-mundt

Solving The Hydrogen Storage Problem: Compact Hydrogen Storage In NH<sub>3</sub> Complexes

United States  
Minnesota  
Jonathan Soli

The Effects Of Water Electrolysis On An Internal Combustion Engine: Phase Two

Republic Of Korea

Nahyun Kim  
Ghahyun Kim

Bio-conversion Of Rice Straw To Ethanol : The Fuel Of Tomorrow From The Agricultural Wastes Of Today

United States  
Florida  
Nathan Monroe

Harnessing Solar Energy, Year 4:Increasing The Efficiency Of A Hybrid Polymer Photovoltaic Cell With Zinc Oxide Nanofibers In Varying Lengths

Tajikistan

Samandarzoda Navruzi  
Aziz Ibrohim  
Azizdjon Gafurov  
Bio-electricity In Practice

## Silver Medalists

Country  
State  
Student  
Student(2)  
Student(3)  
Project Title

United States  
Texas  
David Lebsack

## The War On Gas Mileage

United States  
Maryland  
Sikandar Porter-gill

## The Production Of Methane In A Two-chamber Bio-catalyzed Microbial Fuel Cell Utilizing Methanosarcina Barkeri

United States  
Texas  
Christopher Murzyn

## Viva La Battery: A Study Of Why Nimh Cells Should Replace Alkaline Cells For Many Uses

United States  
New York  
Spencer Jaffe  
Alyssa Blumenthal

## Conversion Of Vibration Energy Through Piezoelectric

Canada

Isa Topbas  
Bekir Buyukkocabas

## From The Fields To The Pumps

United States  
Texas  
Varun Sambhariya

## A Greener Environment

United States  
Ohio  
Yu Huang

## Emergency Power Generation For Pem Fuel Cells In Remote Locations

United States  
Iowa  
Jordan Lightfoot

## Waste ... Not Wasted

## Harvesting Energy From Wastewater With Microbial Fuel Cells

United States  
Texas  
Teresa Wu  
Robert Landis

## Efficient Concentrators For Solar Cell Systems

Cambodia

Monika Lavan

## Coconut Biodiesel Can Broaden New Horizons For Cambodia

United States  
Texas  
Kardelen Dogan

## Save Your Money; Relax In The Shower.

Country  
State  
Student  
Student(2)  
Student(3)  
Project Title

United States  
Washington  
Katherine Antoniak

Variables Affecting Capacitance And Voltage In Ultracapacitors

United States  
Michigan  
Jacob Isley

A Comparison Of Heat Outputs And Cost Effectiveness When Burning Multiple Concentrations Of Corn And Dry Distiller Grains With Solubles

United States  
Texas  
Brian Stutzman

Wave Energy Extractor

South Africa

Lara Nel

Using The Ocean's Own Energy To Desalinate Seawater

United States  
New York  
Irsal Alsanea  
Julia Budassi

The Utilization Of Phragmites Australis As A Substrate For Methanogenesis

United States  
Oregon  
Hayden Bush

The Feasibility Of Creating Bio-crude From Scotch Broom.

United States  
Virginia  
Adam Geilker  
Hayden Bush

Following The Sun: The Effect Of Tracking On The Energy Efficiency Of Photovoltaic Solar Collectors

United States  
Texas  
Kyle Koliba

Transesterification Of Algal Oil Into Biodiesel

United States  
Connecticut  
Michael Tom

Energy Extraction From Human Biowaste At Reduced Temperatures

United States  
Texas  
Arathi Ramachandran

Cathodic Electrodeposition Of Mixed Molybdenum-titanium Oxides

United States  
Utah  
Kelsey James

Hydroelectricity, Why Not The Ocean?

Indonesia

Aulia Riza  
Andhyta Firselly Utami

The Thermicator Estipe: Thermoelectric Generator Using the Exhausts Pipe

United States  
Texas  
Sneha Centala

A Window's Perspective On Energy Efficiency

United States  
Connecticut  
Semih Eren  
Mehmet Sencan  
Muhammed Mergen  
Better Fuel Or Better Oxidizer?

Azerbaijan

Feride Aliyeva  
Gulsen Huseynova

Heat Energy- Conversion Device To Electricity

Albania

Erind Elhyka  
Andi Hasalliu

Chloro-battery

United States  
Ohio  
Eric Painting

Algae As A Biofuel

Kazakhstan

Galikhan Baitikov  
Yeleussinov Sabyrzhan  
Akzhol Imangaliev  
Electromagnetic Effect At Deformation Of Dielectrics

Honorable Mention

Country  
State  
Student  
Student(2)  
Student(3)  
Project Title

United States  
Texas  
Nikhil Kapur

Optimizing The Efficiency Of Nimh Secondary Cells

United States  
Oklahoma  
Mina Sardashti

Alcoholing Green Energy: Does Proton Concentration Correlate With Btu?

United States  
New Jersey  
Alireza Golamy-sadig

Waves For Electricity

United States  
Minnesota  
Audrey Huwe

An Investigation Into The Effects Of Calcium Sulfonate, A Fuel Additive.

Turkmenistan  
Meylis Artykow

Use Of Geothermal Energy As An Alternative Energy Source In Heating Systems

Netherlands  
Koen Peeters  
Talitha Muusse  
Pepijn Vuister  
Blue Energy

Nigeria  
Abubakar Adamu  
Abdulhaq Shekarau

Sustainable Energy Sources For Nigerian Energy Politics

Turkey  
Ismail Kurtul  
Mahmut Baskir

A Study On Volatiles Yield From Slow Pyrolysis Of Cotton-based Wastes

Vietnam  
Anh Minh Pham  
Hiep Truong

Biodiesel From Coconut Oil

United States  
Texas  
Neriman Cavdar

Optimizing Ethanol's Heat Production

United States  
Texas  
Allison Piwetz

Working With Windmills

Tunisia  
Sofiene Chaieb

Solaictreau

Myanmar  
Swan Htet Aung  
Moe Wai Aung

Introducing An Economical Solar-powered Heating And Cooking Method For Houses In The Rural Areas Of Central Myanmar

{tab=Senior Engineering}

Gold Medalists

Country  
State  
Student  
Student(2)  
Student(3)

Project Title

United States  
New York  
Maritza Lagunas

Analysis Of Reagents:study Of Phormia Regina Peptides For Antimicrobial Efficiency

Turkey

Gürcan Gürses

Manufacturing A Ceramic Filter That Is Durable And Ecologic For Filtering Molten Metals

United States  
Pennsylvania  
Ellen Bechtel

Data Fusion As Used In Humanitarian Demining

United States  
North Carolina  
Shuo Li  
Mingjuan Zhang

Characterization Of A Synthetic Microbial Pathway For The Production Of Bioplastics: Poly(3-hydroxybutyrate-co-4-hydroxybutyrate)

United States  
Texas  
Ryan Alexander

Gone With The Windmills: An Analysis Of The Variables Involved In The Environment Of The Efficient Windmill

United States  
Georgia  
Patti Murphy  
Bijal Patel

Sipsap: Experimental Development Of Database Algorithm For The Prevention And Control Of Antibiotic Resistance

Jordan

Tarik Abu-iebdeh

Diatomaceous Phenol Removing Filter

United States  
Ohio  
Caitlin Mann

## The Development Of A Method For The Detection Of Creatine Kinase

### Silver Medalists

Country  
State  
Student  
Student(2)  
Student(3)  
Project Title

United States  
Texas  
Christopher Cervantes

## Transfection Of Mammalian Cells: Comparing The Cost-efficiency Of Reagents Linear Polyethylenimine And Fugene-6 As A Means Of Producing Recombinant Lentiviral Vectors

United States  
Minnesota  
Jeffrey Fahland

## Designing An Autonomous Tracking System For Efficient Solar Energy Collection

United States  
Illinois  
Osama Zayyad

## Motor Oil Viscosity And Fuel Emissions

United States  
Georgia  
Katherine Dugan

## Reducing Artificial Insulin Dependence By Creating An Epitope Tagged Fusion Protein For The Gpcr, Gpr120

United States  
Texas  
Cindy Au

## Regulating Plasma Density Profile - Enhancing Electron Beam For Laser Wakefield Particle Acceleration

Kazakhstan

Bislan Bazurkayev  
Aidos Muratov  
Zhanabil Ashir-turar  
Eco-House

Turkey

Onur Demir  
Burak Can

Do Not Throw Away Your Worn-out Tire, The Environment Will Be Saved!

Use It On Your Wall, Your House Will Be Safe!

United States

Texas  
Rounok Joardar

Towards A Green Computer: Recovering Waste Heat From The Cpu Of A Modern Computer Using Solid State Thermoelectric Generators

Kazakhstan

Nurgazy Abzhanov  
Bauyrzhan Ablezov  
Aben Ayazbayev  
Research Of Baling Process To Eliminate The Loss Of The Most Valuable Parts Of Lucerne.

Belgium

Jeroen Van Cleemput

Purple Potatoes?

United States

Texas  
Forrest Berg

Testing The Impact Resistance Of Windows & Window Protection Systems

United States

Utah  
Jake Trimble

Bicycle Detection System For Automobiles

United States

Texas  
Tyler Mrosko

Propeller Dimensions And Their Power And

Pitch Speed

Portugal

Catarina Almeida  
Nicole Rodrigues  
Pedro Loução  
Micropropagation Of An Endangered Plant Species

South Africa

Martin Kemp

A Computerized System For Distributing Learners When Educators Are Absent

Bronze Medalists

Country  
State  
Student  
Student(2)  
Student(3)  
Project Title

United States  
Washington  
Riley Moore

A Greener Bouncy Ball: The Development Of Eco-friendly Toys Using Recyclable Polymers

United States  
Oklahoma  
Melissa Carvell

Science Thwarts Insurgents Part Ii: Improvements In Ceramic Armor Systems Design Using Composites For Tensile Reinforcement In Ceramic Plates

United States  
Arizona  
Alexander Fredrickson

Electromagnetic Accelerator Efficiency Comparisons

United States  
Texas  
Morgan Watson - Morris

The Effect Of Angled Winglets On Aerodynamic Lift

United States  
Maryland  
Appajosula Rao

Utilization Of Solid Metal Waste For The Power Generation Using Semi-fuel Cell Technology

United States  
North Carolina  
Taylor Courier

A Micro-wind Generator Utilizing Aeroelastic Flutter

Hungary  
István Timári

Macro- And Microelements In Wines

Canada  
Okhan Orhan  
Semih Yesil

No Ice,Less Accident

United States  
Texas  
Alyssa Bennett

An Investigation Of How The Blockage Density Of Piers Affects Wave Energy Dissipation

United States  
Iowa  
Daniel Wilson

Turbine Design Efficiency (phase Ii)

United States  
New York  
Jesse Grushack  
Alex Solomon

Designing A Effective Roadside Crash Barrier

United States

Texas  
Daniel Ogilvie

Get Ya Burners Out

United States  
Texas  
Rosemary Wang

Bend Without Breaking Ii: A Study Of Tensegrity

United States  
New York  
Alec Stonitsch  
John Nash

The Application Of A Mechanical Lever To Control Eyelid Function

United States  
Georgia  
Kevin Brawley

The Effect Of Different Headphone Designs On Sound Efficiency

United States  
Texas  
Mary Basile

Designing Breakwaters To Control Beach Erosion

United States  
District Of Columbia  
Hezekiah Williams, Iii

Gas Or Diesel

United States  
South Carolina  
Joshua Lee

Fuel Efficiency Via Rpm's And Time

United States  
Texas  
Christopher Rose

The Effects Of Varying Voltages, Mass Additions, And Mass Distributions On The Efficiency And Effectives Of The Transrapid Maglev Propulsion System

United States

South Carolina  
Eric Shine

The Effect Of Wire Composition On Asymmetrical Capacitor Performance

United States  
Texas  
John Roberts

Clean Air, Clean Water: An Investigation In Forward Osmosis Desalination

Poland

Marek Romanowicz  
Aleksandra Wiraszka  
Michal Staszewski  
Designing Of Computational Models For Immunology

United States  
Maryland  
Appajosula Rao

Dynamics Of Fluid Flow Around Aerofoil, Airplane And Submarine: Effect Of Winglets

United States  
Texas  
Esat Cavdar  
Ivan Labastida

Earthquake And Fire Resistant Structures

Honorable Mention

Country  
State  
Student  
Student(2)  
Student(3)  
Project Title

United States  
Indiana  
Aisha Payne

## Energy Saving Properties Of Bricks That Incorporate Recycled Polystyrene And Polyethylene

United States  
Georgia  
Sarah Pace  
Christy Lafayette

## An Investigation Of A Mouse Prototype (phase Ii)

United States  
Texas  
Ali Mohammed-ali

## Smart Alloy Against Seismic Activity

United States  
Alabama  
Aerial Murphy

## The Effects Of Different Films On Hydrostatic Bearings

United States  
Iowa  
Tracy Older

## Co2 Emission Filtration System Using Lithium Hydroxide Crystals And Zeolite

Indonesia

Astari Anjani  
Selma Zisan Erol

## BUSTLE!

United States  
Oklahoma  
Kelley Marley Fleming

## An Excel\_lent Test Analyzer

United States  
Georgia  
James Rives

## The Effect Of Activators And Ph Levels On Color Intensity

United States  
Indiana  
Brennan Chung

## Free Energy?

United States  
Texas  
Michael Rockey

Green And Present Danger

United States  
Texas  
Parul Kapur

Analysis And Application Of Steady State Heat-flow: Geothermal Temperature Control

United States  
Virginia  
Vivek Singh

Electret And Air Condenser Microphones: Background Noise Measurements And Applications

Kazakhstan

Ilyas Yechshanov  
Azamat Kumekbayev

Dancing Bee Method

Mozambique

Josefino Mauaie

Application Of L.D.R (Light Depended Resistors) In Daily Life

{tab=Senior Environment}

Gold Medalists

Country  
State  
Student  
Student(2)  
Student(3)  
Project Title

Argentina

Augusto Germán Niez Gay

Propolis In Action-II

United States  
Texas  
Christina Chang

The Synthesis Of Redox-active Ligands For Mercury(ii) Scavenging

United States  
Kentucky  
Kartik Malhotra

Extracting Value From Waste

United States  
Florida  
Tess Peterson

Chicken Embryo Development After Exposure To Mmt, A Fuel Additive: Year 2

Kazakhstan

Ardak Meterkulova  
Aiman Tazabek

The First Biological Preparation On The Basis Of Bacillus Thuriangiensis For The Effective Fight Against Pests Of Forest Economy And Agriculture

United States  
New York  
Ruby Monichan

The Evaluation Of Carbon Sources On The Denitrification Rate Of A Sequencing Batch Reactor

United States  
New York  
Shane Silpe  
Robert Levokove

Controlling The Navigation Of Daphnia Magna And Daphnia Pulex With The Addition Of Magnetic Bacteria And A Magnetic Stimuli Through A Customized Maze

Kazakhstan

Sandugash Kalybekkyzy  
Saltanat Berdibekkyzy  
Aidana Kairbayeva

To Use Calcium-magnesium Silicopolyphosphate Sorbent In Order To Scour Stream Waters

Kazakhstan

Rustem Sultanmuradov  
Yerkingali Sabanbay  
Iliyas Turekulov

The Method Of Cleaning Sewage From Oil

Kazakhstan

Galimzhan Tleboldinov  
Didar Sunbayev  
Serik Belgibayuly

Accelerating The Growth Of Halophyte Plants Which Remove Salt & Heavy Metals From Salt-affected Soils By Using A Small Special Group Of Microorganisms And Using Microbiologic Methods To Increase Productivity Of Soils.

Macedonia

Anastazija Ristovska  
Martina Jakimovska  
Blerta Haxhijaha

Crustacean Waste Shells - A Miraculous Solution For All Agricultural Problems

Turkey

Alihan Zenginer

Modification Of Sunflower Stalk Extracts With Boric Acid And Their Usage As High Performance Insulation Material

Turkey

Saadettin Bekmezci  
Mehmet Yavuz Yener

Treatment Of Flue Gases With Ammoniacal Zeolite

Namibia

Jandré Pretorius  
Andries Bester

Idu Investigation Of Air Contamination By Sulphur Dioxide

Silver Medalists

Country  
State  
Student  
Student(2)  
Student(3)  
Project Title

United States  
Kentucky  
Rohun Kulkarni

Analysis Of Chitosan's Ability For Uptake Of Polycyclic Aromatic Hydrocarbons Or Release Of A Fluorophore In Aqueous Solutions Using Fluorescence Spectroscopy

United States  
Wisconsin  
Laura Mark

A Study Of The Potential Of Quagga Mussel (*Dreissena Bugensis*) Filtration In The Removal Of Aquatic Pollutants

Georgia  
Natia Bejanidze

Young Effort To Make Our Home Planet Clean And Tidy

United States  
Texas  
Fatma Tanis

Global Warming - We Can Stop It !!!

United States  
Texas  
Kristen Carroll  
Katherine Frangos

Capturing Carbon: An Analytical Study Of The Effects Of Biochar On Agricultural Fertility

United States  
Texas  
Richa Thakur

Boxing Day Tsunami: The Last Of The Knockouts

The Effects Of Coastal Configuration And Seawall Design On Tsunami Strength

Turkey

Sena Nur Arslan  
Fatma Nur Savas

Producing Environmentally Friendly Chipplate From Dewatered And Degreased Sediment Of 'Glycyrrhiza Glabra';

United States  
Florida  
Raymond La

Testing The Nitrate And Phosphate Levels: A Study Of Certain Types Of Agricultural Pollution And Nutrient Runoff And Their Effects On The St. Lucie River

United States  
New Mexico  
Shay Anderson

A Search For Oil Biodegradation With Marine, Aquatic & Terrestrial Symbiosis

United States  
New York  
Cole Blum  
Michelle Leonetti

Determination Of The Efficiency Of Symbiotic Nitrogen Fixation Between Medicago Sativa And Rhizobium Leguminosarum As An Alternative To Nitrogenous Fertilizers

United States  
Texas  
Aakash Sur

Houston Air Induces Toxic Reactive Oxygen Species In Lung Cells

Ghana

Osman Abdullah  
Eugene Adjei

The Use Of Lemon Grass (Cymbopogon Citratus) And Citronella (Cymbopogon Nordus) In The Control Of Nematodes In Carrot (Daucus Carota).

Russian Federation

Luiza Bektemirova  
Yulia Nikulina

Tumors Of Plants In Territory Of Landscape Reserve "teply Stan";

United States  
New York  
Meghan Stanger  
Jocelyn Jasper

Determining The Influence Of Synthetic Turf Field Runoff On A Surrounding Marine Environment Using Bioindicator Guekensia Demissa.

Bulgaria

Berkant Nuritin Shaban  
Teodor Kostantinov Uzunov

Investigation of Some Key Characteristics of the Textile-Dyeing Waste Water

Azerbaijan

Zulfu Aslanli  
Aslan Aliyev

Genotoxic Impact Of The Crude Oil On Sturgeon Juveniles And Bioremedial Treatment

United States  
Texas  
Ben Higgins

Beautiful Biodiesel

United States  
North Dakota  
Benjamin Sun

I On Science, Eye On Pollutants - A Long-term Study Of Red River Water Quality, Year 3: Effects Of City Land Use

Turkey

Emine Muleyke Yukselen  
Merve Begu Gonul

Cleansing Polluted Water Using Nanotechnological Methods

Nigeria

Murtala Mamman  
Amadou Traore  
Shehu Yar'adua  
Super Absorber

United States  
New York  
Samantha Larsen  
Kelly Lester

The Environmental Impact Of N,n Diethyl-meta-toluamide, Picaridin, And Cymbopogon Winterianus On Lumbricus Rubellus And Lolium Multiflorum.

United States  
Minnesota  
Hannah Anderson

Carbon Dioxide's Reproductive Effect On Hydra Littoralis

United States  
Georgia  
Dayrin Mendez

The Effect Of Inp On Chemical Contaminants

United States  
Tennessee  
Gregory Markov

Utilization Of Microalgae In A Photobioreactor For Ammonium Ion Removal From Water

United States  
Texas  
Miranda Harris

They're Killin' Your Penicillin!

Bronze Medalists

Country  
State

Student  
Student(2)  
Student(3)  
Project Title

United States  
South Carolina  
Valentin Lazar

An Analytical Study Of The Effectiveness Of Carbon Sequestration Via Phytoplankton Blooms Stimulated By Iron Fertilization As A Means Of Preventing Ocean Acidification

United States  
Texas  
Cameron Strong

Getting Carried Away li

Turkey

Gökhan Akpınar  
Mehmet Sefa Ok

Removal Of Chromium From Wastewater Of Chromium Processing And Enrichment Industry To Improve Quality Of Stream Water.

Turkey

Mehmet Emre Geçici  
Fatih Aydılek

Traverten As A Good Shielding Material Against Radiation Exposure

United States  
South Dakota  
Nicole Dejong

What Factors Influence Seed Imbibition?

Macedonia

Zharko Daniloski

The Influence Of Different Concentrations Of Lead On The Chloroplast Pigments Content And Some Biogen Elements In Pea (*pisum Sativum L.*)

Paraguay

Katherine Garay Acosta  
Jazmín Vaceque

Citisina: "a Natural Alkaloid Against

## Participant And Expository Airborne Alergenicas Particles Of The Air

United States  
Texas  
Manpreet Kaur

## Protecting Yourself From Uva: Herbs Vs Chemicals

United States  
New York  
Cruz Granados

## Utilizing The Filtration And Purification Abilities Of Chlorophytum Comosum In The Removal Of Harmful Indoor Air Irritants.

Kosovo

Kushtrim Bejtullahu  
Fat Ejupi

## Fly Ash Filtration In Central Heating Systems

United States  
Minnesota  
Marie Tate

## The Effects Of Land Use On Macroinvertebrate Communitites In Southwest Minnesota

United States  
Texas  
Lijia Yu

## Bioremediation: Cleaning Up

Turkey

Omer Seker

## Amino Acid Production From Food Industry Waste To Use In Organic Agriculture

United States  
Maryland  
Thomas Blackmon  
Kyle Le  
Daniel Choquette  
The Gas Blanket

United States  
Georgia  
Saba Stovall

Do The Clays Kaolin And Fuller's Earth Remove Lead In Contaminated Soils?

Indonesia

Yurgen Alifia

An Automatic Smoke Eliminator

United States  
North Carolina  
Martha Hall

Construction Of A "green" Filter System

Albania

Jona Basha  
Kristi Dode

Protecting Children From Air Pollution

Kazakhstan

Ainur Sharmenova  
Aizhan Abilkassymova  
Aiman Mambet  
Rabbits Cell And Protein Composition Under The Influence Of The Aral Region Factors And Methods Of Correction Of Revealed Shifts

United States  
Georgia  
Monica Longoria  
Sarah Kustick

Lumbricus In The Bioremediation Of Acid Rain Contaminated Soil

Vietnam

Tuan Nguyen  
Giang Nguyen

Preparation Of Activated Carbon From Scrap-coir In Vietnam By Chemical Activation Method For Pollutants Adsorption In Water.

Moldova

Maxim Bordei  
Evgheni Croitor

Eutrophic Lakes

Moldova

Vadim Firfa  
Victor Rotaru

Teodor Scorpan  
Way Out

United States  
Arkansas  
Kaleb Horlick

The Discovery Of A Correlation Between Fluorescent Whitening Agents And Macro-invertebrate Biodiversity In Streams.

United States  
Texas  
Rebecca De Los Santos

Burning!

Georgia

Mariami Kostava

&ldquo;rational Aggravation&rdquo; Of Territories Of Industrial Cities By Maximumely Stable And Aesthetically Improved Woody Plant Species.

Albania

Agim Kopali  
Besar Dida  
Eledin Zeneli  
Removing Phenol From The Waste And Ground Water By Using Potatoes

Honorable Mention

Country  
State  
Student  
Student(2)  
Student(3)  
Project Title

United States  
New Mexico  
Jacob Schirer

Solar Power

United States  
Texas  
Zachariah Vice

Can You Turn It Up?

Bosnia And Herzegovina

Vildana Bihorac  
Minela Jusovic

Using Bioindicators In The Ecological Assessment Of Fresh Waters' Quality

United States  
Florida  
William Li

Effect Of Ph Factors On Pond Ecology

Ukraine

Anton Sestritysny  
Victor Golovin

Activization Of The Latent Lymantria Dispar Nucleopolyhedrovirus With Dna-fragments Of Its Genome

Kosovo

Emrulla Spahiu  
Edon Hasani

Effects Of Aflatoxin

Kosovo

Fitim Miftari  
Drini Ahmeti

Ash Soil

United States  
Texas  
Rabia Ali  
Christopher Torres

Biodegradation Of Hardly Decomposing Materials.

United States  
Texas  
Andrew Paiyou

Overpopulation

United States  
Georgia  
Kathryn Johnson

The Effect Of Iron, Urea, And Phosphate On Plankton's Consumption Of Co2

Bosnia And Herzegovina

Almir Sulejmanovic  
Ahmed Masic

Using Transparent Wastes As Transparent Thermal Insulators

United States  
South Dakota  
Diandra Diede  
Kelsey Hento

Improving Fenton Reaction For Water Treatment

United States  
Michigan  
Nicole Smith

A Riveting River Revelation Of A River Rat: A Comparative Analysis Of Michigan Rivers Through The Investigation Of Common Pollutants And Heavy Metals

United States  
New York  
Ian Schwarz  
Tigran Edindjiklian

Artificial Biological Soil Crust

United States  
Pennsylvania  
Elisabeth Bleistine

Water Quality Above And Below A Sewage Treatment Discharge On The Conestoga River

United States  
Vermont  
Ian Patch

The CO<sub>2</sub> Emission Levels Using Shaded Pole Motors Vs. Using Ecd Motors In Refrigerators

Brazil

Guilherme Klock  
Gustavo Camargo

Smart Trash Can: A Proposal For A Robotized Trash Can To Optimize Garbage Separation In High Pedestrian Areas In The City Of Curitiba, State Of Paraná, Brazil.

Macedonia

Olivera Evrova

Micropropagation Of Fruit Species In In Vitro Conditions

United States  
Minnesota  
Logan Pallin  
Sara Gleason

An Analysis Of Predator-prey Macroinvertebrate Interactions On Scanlon Creek With The Use Of A Rain Garden To Diminish The Impact Of Urban Road Run-off&mdash;phase Ii

Turkey

Suleyman Akyol

Boron Pollution In Simav Creek And Its Effects On Germination

United States  
Oregon  
Ari Hopkinson  
Mallory Griffith

The Greenest Tree

United States  
Ohio  
Stuart Davis

Investigation Of Environmentally-friendly Ways To Recycle Elephant Feces

United States  
South Dakota  
Jennifer Ratzlaff  
Victoria Rezac

Removal Of Chlorinated Hydrocarbons From Water

United States  
Georgia  
Rachael Ceciliani

What's Left Behind? Phase II

United States  
Michigan  
Erika Trigg

Water Quality: An Analysis Of City Water In The Saginaw Valley

United States  
Ohio  
Katie Bush

Ethanol As A Renewable Resource

Taiwan

Chang-wei Huang  
Yu-hsun Chiang

Ethics, Legal And Social Impact Issues On The Environmental Protection In Taiwan

United States  
Minnesota  
Joseph Templeton

CO<sub>2</sub> Sequestration

Turkey

Begüm Yıldız  
Caner Göztepe

Cleaning The Textile Waste Water Using Nano Structure Catalyst By Catalytic Wet Air Oxidation Method

Mexico

Antonio Méndez  
Carlos Méndez

Fashion And Garbage

Romania

Telespan Andreea  
Răceu Maria-Roxana

From The World Of Those Who "talk"; Without Words

New Perspectives In Environmental Protection

Thailand

Kirati Suram

Chollakorn Teeranaw

Filtering Exhaust Gases With Vapor

Turkey

Hazal Çakirgöz  
Merve Öztürk

Life In, Radiation Out!

Niger

Koure Aliou Ibrahim

Struggle Against Pollution in the Sahel: A Case Study of a Plastic Garbage in Niamey

United States  
Oklahoma  
Rachel Rickards

Bioremediation Of Hydrocarbon Contaminated Soil

United States  
Louisiana  
Brandon Theodore  
Alex Williams

The investigation of plant and fungi interaction by infrared microspectroscopy

{tab=Junior Energy}

Gold Medalists

Country

State  
Student  
Student(2)  
Student(3)  
Project Title

United States  
Texas  
Elizabeth Quigley

'Round and 'Round It Goes: A Study Of How Winglets Affect Wind Turbines

United States  
Texas  
Kishore Balasubramanian

Impact Of Temperature And Input Energy On Electrolysis And Fuel Cell Output

Silver Medalists

Country  
State  
Student  
Student(2)  
Student(3)

United States  
Texas  
Alex Newell

Radiant Energy - How To Lower Its Impact On Home Cooling Bills.

United States  
Florida  
Katherine Stone

What A Drag! Computational Fluid Dynamics Of A Savonius Wind Turbine On A Moving Automobile Used As An Alternative Energy Source

United States  
Kentucky  
Jordan Stovik

Too Fast Too Frictionless

United States  
Arizona  
Stan Palasek

At Yeast There's Glucose

Bronze Medalists

Country  
State  
Student  
Student(2)  
Student(3)  
Project Title

United States  
Texas  
Drew Schaffer  
Akhil Rajiv

The Effects Of Varying Percentages Of Aluminum-gallium Alloys On The Production Of Hydrogen Gas

United States  
Texas  
Akhil Ganti

Ethanol: Good Or Bad?

United States  
Texas  
Eduardo Acosta

How The Principle Of The Pilotless Oven Can Be Used To Save Water And Energy?

United States  
Texas  
Jose Jimenez

"the Eerie Glow Of Lumino!"

United States  
Colorado  
Morgan Hart

Renewable To The 3rd Power: Mini-hydroelectric Generator As A Renewable Resource For Today's Technology

United States  
Texas  
Brandon Loredo

Carpooling Saves \$\$\$

Honorable Mention

Country  
State  
Student  
Student(2)  
Student(3)  
Project Title

United States  
Texas  
Neerja Vashist

Modifying A Solar Panel Car For More Sustainability

United States  
Oklahoma  
Allysan Minier

Manure: A Renewable Energy Source

United States  
Louisiana  
John O'dowd

Where's The Fuel?

United States  
Texas  
Zachary Hanzel

Environmental Friendly Electricity?

United States  
Texas  
Joshua Deas

Making Dc Electricity

United States  
Texas  
Cameron Szala

Energy House

{tab=Junior Engineering}

Gold Medalists

Country  
State  
Student  
Student(2)  
Student(3)  
Project Title

United States  
Texas  
Benjamin Carroll

Balancing The Wind

United States  
Texas  
Paul Huron

Retinex Image Processing "the Real Thing"

Silver Medalists

Country  
State  
Student  
Student(2)  
Student(3)

United States  
Texas

Evan Cofer

The Optimal Drive Train Design For An Omnidirectional Robot

United States  
Alabama  
Joshua Hawkins

Look, Mom! No Wires! A Study Of Signal Strength With Parabolic Reflectors On A Wireless Router

United States  
Texas  
Connor Hamilton

Language Detection Using Compression

United States  
Texas  
Sonny Cabrera

Strength Of Different Bridge Types

Bronze Medalists

Country  
State  
Student  
Student(2)  
Student(3)  
Project Title

United States  
Florida  
Dylan Carman

The Influence Of Propulsion And Weight On The Maneuverability Of Submersible Remotely Operated Vehicles.

United States  
Texas  
Christina Rice

Killing Cancer

United States  
Oklahoma  
Tyler Carvell

Shooting With Magnets Phase Ii: A Study To Optimize A Coilgun And Its Coils

United States  
New Mexico  
Anjik Ghosh

Do We Need The Middle Ear?

United States  
Texas  
Druck Green

A Conductive Nano-filled Polymer

United States  
Texas  
Justyn Fitz

Program Performance In A World Of Virtual Memory

Honorable Mention

Country  
State  
Student  
Student(2)  
Student(3)  
Project Title

United States  
Indiana  
Sachin Aggarwal

Attic Fan: Beat The Heat

United States  
Arizona  
Ostin Zarse  
Soshua Sloane

Catapult Vs. Computers: Can Computers Replicate Real Life Data?

United States  
Texas  
Allison Scates

Acoustical Solutions To Noise Reduction

United States  
Texas  
Rachel Wang

Fear Me, Or Fear Me Not!

{tab=Junior Environment}

## Gold Medalists

Country  
State  
Student  
Student(2)  
Student(3)  
Project Title

United States  
Oregon  
Aishwarya Vardhana

A Novel Method For Prevention Of Ecological Imbalance Due To Oil Contamination In Wetlands

United States  
Texas  
Gabrielle Mehta  
Autumn Rose Greenfield

The Effects Of Varying Levels Of Capsaicin In Anti-fouling Paint On Texas Coastal Organisms.

United States  
Texas  
Kara Harrington

Effective Natural Antimicrobials

## Silver Medalists

Country  
State  
Student  
Student(2)  
Student(3)  
Project Title

United States  
Texas  
Brigette Lee

Bioluminescent Dinoflagellates As A Bioindicator Of Water Quality

United States  
Maryland  
Eric Keen

Testing The Effect Of Silver Nanoparticles On Aquatic Organisms

United States  
Texas  
Adam Kara

The Effects Of Hydrochloric Acid On Lycopersicon Msculentum.

United States  
Texas  
Wenxi Li

Iron Out Global Warming: The Effects Of Iron Fertilization On The Growth Of Marine Phytoplankton

United States  
Texas  
Zoe Zimmerman

Do Plants Clean Harmful Chemicals From The Air?

United States  
Florida  
Jason Kolleda

The Effect Of Natural And Synthetic Pesticides On The Phytoplankton Population Of The Indian River Lagoon: A Two Year Study

United States  
Texas  
Zahra Qureshi

Chemical Conditions Affecting Growth Of Bacteria On Common Surfaces: A Qualitative Analysis

United States  
Texas  
Monica Nguyen

Time To Save The World

### Bronze Medalists

Country  
State  
Student  
Student(2)  
Student(3)  
Project Title

United States  
Texas  
Wolf Honore

Effects Of Carbon Dioxide Concentrations On Leaf Ph In Ocimum Basilicum

United States  
Texas  
Austin Greenfield

Using Saccharomyces Cerevisiae As A Filtration Agent For Heavy Metals

United States  
California  
Rose Leopold  
Ella Madsen

Sandy Beaches: Pleasure Or Pollutant? Year 2

An Analysis Of Sand Bacteria As A Possible Source Of Ocean Contamination

United States  
Texas  
Alexandar Aitken

Plasmid Project (pglo Bacterial Transformation In E. Coli)

United States  
Kentucky  
Michael Tucker

The Feeding Selection Of Freshwater Mussels And Their Influence On River Water Quality

United States  
Arkansas  
Shree Govindarajan

The Impact Of Global Warming On The Growth And Reproduction Of Daphnia Magna

United States  
California  
Natalya Dreszer

Algae To The Rescue!

Bioremediation Of Greenhouse Gases With Algae

United States  
New York  
Amala Nath

All That Glitters Is Not Gold: The Role Of Phytohormones On Heavy Metal Uptake

United States  
Texas  
Joy Tan

The Effects Of Naturally Occurring Soil Bacteria In The Process Of Bioremediation

United States  
Texas  
Muhammad Mihjazi

Hydroponics Vs. Soil

United States  
Arkansas  
Jacob Brown

Does Your Car Contribute The Most To Greenhouse Gases? A Comparison Of Exhaust From Different Vehicle Types.

United States  
Texas  
Alexander Sherwood

## Using Aeration To Decrease The Growth Rate Or Eliminate Invasive Weeds In Stagnant Ponds

United States  
Missouri  
Victor Armstrong

## What To Do To Have Cleaner,oceans Lungs Of The Earth?

### Honorable Mention

Country  
State  
Student  
Student(2)  
Student(3)  
Project Title

United States  
Texas  
Megan Abbott

## Homemade Biodiesel: Fad, Folly, Or Windfall?

United States  
Missouri  
Hannah Kludy

## My Inconvenient Truth

United States  
Texas  
Hannah Yock

## A Soil Quality Study

United States  
Kentucky  
Bryan Slater

Contamination In Our Streams

United States  
Illinois  
Arzeena Ali

Salty Roads & Pollution

United States  
Illinois  
Grace Oczon

Best Water

United States  
Texas  
Jorge Bonilla

Water V.s. Minerals

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