

## I-SWEEP 2015 Category Award Winners

Medal	Category	Contestant	Project Title	Country
Gold	Energy	Nicholas Szabo	Investigation of Transition Metal-based Acetylacetonate Species for Optimized Performance of Hybrid Non-aqueous Redox Flow Batteries	United States - Connecticut
Gold	Energy	Cagri Aytekin, Erkam Curuk, Tarik Kesen	DESIGNING HIGHLY EFFICIENT AND INEXPENSIVE WIND TURBINES BY UTILIZING ORGANIC SOLAR PANELS MADE FROM ROSA CANINA	United States - Connecticut
Gold	Energy	Mykhailo Lytovchenko	Wave-Powered Desalination Plant	Ukraine
Gold	Energy	PETRE CALIN NAE, MIHAI POPESCU	New Hybrid PV Cell Based on Organic and Biological Materials	Romania
Gold	Energy	Lee Blackburn, Arthur Chen, Justin Lish	Utilizing Metal-Functionalized Graphene Oxide/Partially Reduced Graphene Oxide Coatings	United States - New York
Gold	Energy	Min Keun Chey	Control of Aqueous CO <sub>2</sub> Concentration by Temperature-Sensitive Materials for Changing Osmotic Pressure	United States - New Jersey
Gold	Energy	Nipun Ramakrishnan	The Super Energy Harvester: A Novel Device that Combines and Wirelessly Transmits Energy from Ambient Sources	United States - Texas
Gold	Engineering	Sasaank Bandi	Synthesis and Characterization of Bio inspired Materials Using Nanotechnology	United States - Texas
Gold	Engineering	Kailas Vodrahalli	Improving Concentrated Solar Power Technologies: Planar Optical Waveguides for Transporting Concentrated Light to Enable Efficient Energy Conversion	United States - California
Gold	Engineering	Drew Prevost	Development of a Scalable Active Battery Management System for Electric and Hybrid Electric Vehicles	United States - Alabama
Gold	Engineering	Chen Yang	Research and development of an intelligent detection system for PM <sub>2.5</sub> analysis on the leaf surface	China
Gold	Engineering	BATUHAN SAKAL, UTKU EGE		
Gold	Engineering	YILDIRIM	S-R-H (Search-Rescue-Help) SNAKE-BOT	Turkey
Gold	Engineering	Swarnav Pujari	Solving the Energy Crisis One Step at a Time	United States - New York
Gold	Engineering	Alex Doyle	Saving Lives with Improved Field-level Treatment of Hypothermia: GAS SENSOR APPLICATIONS WITH PHOTONIC CRYSTAL FIBER AND CARBON DIOXIDE SENSOR DESIGN	United States - Texas
Gold	Engineering	SERRA DOĞANATA		Turkey
Gold	Environment- Health & Disease Prevention	Andrew Amini	Automatic Seizure Prediction Algorithms and Evaluation for a Single, Strategically-placed, Bipolar Electroencephalogram	United States - New York
Gold	Environment- Health & Disease Prevention	Kushal Kadakia	Elucidating the Molecular Mechanisms of Arrhythmogenesis	United States - Texas
Gold	Environment- Health & Disease Prevention	Sujana Nelakanti, Sakina Plumber	The Effect of Different Agonists on the Aggregation of Thrombocytes in Danio rerio	United States - Texas
Gold	Environment- Health & Disease Prevention	Luke Farrell, Sarah Jacobs	Machine Learning's Application to Epidemiological Surveillance: A More Effective Means to Predict the Spread of the Influenza Virus.	United States - New York
Gold	Environment- Health & Disease Prevention	Nandini Naidu	Treating Alzheimer's Disease: New Proposal for Grayanotoxin Ligand Binding to the Carbonic Anhydrase I Receptor	United States - Oregon
Gold	Environment- Health & Disease Prevention	Alice Xue	Tumor Cell Streaming towards Blood Vessels in the Metastatic Cascade is Mediated by Endothelial Cell-Secreted Hepatocyte Growth Factor	United States - New York
Gold	Environment- Health & Disease Prevention	Paul Hansel	A Novel Antibody-Functionalized Graphene Transistor Lab-On-A-Chip for Selective Detection of Malaria Pathogens	United States - Connecticut
Gold	Environment- Health & Disease Prevention	Arjun Menta	Sherlock on a Chip: Early Cancer diagnosis through multiplexed detection of protein biomarkers using electrical biosensors	United States - Texas
Gold	Environment- Management & Pollution	Joshua Zhou	Low-Cost Heteronanostructure Semiconductor Uses Visible Light Energy to Efficiently Degrade Toxins Threatening Aquatic Life	United States - North Carolina

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Gold	Environment- Management & Pollution	Tiffani Jones	Using Sodium Alginate Beads as a Potential Delivery Mechanism for Distributing the Hydrocarbon-degrading Marine Bacterium - <i>Alcanivorax borkumensis</i> - to Deep Sea Oil Spills	United States - Missouri
Gold	Environment- Management & Pollution	Ji Whan Yoon	Fabrication and Modification of Nanofibers with Superhydrophilic-Superhydrophobic Surface for Membrane Distillation	United States - California
Gold	Environment- Management & Pollution	Crystal Moynan, Christine Neumann	The effect of benthic substrate and location within the Lake Superior Estuary, as well as gender, tone, and sound location on the response behavior of <i>Neogobius melanostomus</i> (Round Gobies) and the possibility of future trapping of this invasive species—P	United States - Minnesota
Gold	Environment- Management & Pollution	Karan Jerath	The Numerical Simulation of an In-Situ Subsea Separator Part II	United States - Texas
Gold	Environment- Management & Pollution	Brendan Weaver	Sodium Thiosulphate Leaching: A Viable Alternative to Gold Cyanidation	South Africa
Gold	Environment- Management & Pollution	Preethi Kaliappan	Cellulosic Ethanol: Determining the most efficient methods for cellulosic ethanol production	United States - Minnesota
Gold	Environment- Management & Pollution	William Blanton	Dripping with Life: Investigating Bacteria in Speleothem Carbonates From Natural and Artificial Surfaces	United States - Missouri
Gold	Environment- Management & Pollution	Deepika Kurup	Integrating Filtration with Photocatalysis for Bacterial Inactivation and Organic Degradation in Water	United States - New Hampshire
Gold	Environment- Management & Pollution	Emma Feldman	The effect of different, low cost filtration processes on the quality and reusability of household greywater	United States - New York
Gold	Environment- Management & Pollution	Sai Sameer Pusapaty	Effective Remediation of Air Pollution through an Algal System Integrated with Carbon Mineralization Technology: Phase I Selection of Algal strains that perform well in a Flue gas derived Bicarbonate Environment	United States - Texas
Gold	Environment- Management & Pollution	Swapnav Deka	What's On the Menu: Identification of the Hydrocarbon Transport Systems as a First Step in Marine Oil-Degradation by <i>Alcanivorax borkumensis</i>	United States - Texas
Gold	Environment- Management & Pollution	Farrukh Rahmatzada, Ayan Hajibayli,	Uptake, transport and localization of nanoparticles in plants: phytotoxicity	Azerbaijan
Gold	Environment- Management & Pollution	Fuad Abdulzada	Horse Chestnut and Wild Lettuce for less Heavy Metals in Drinking Water	Macedonia
Gold	Environment- Management & Pollution	Edita Bytyqi	Geospatial Modeling to Predict Potential Natural Range Expansion of the Eastern Coyote, <i>Canis latrans</i> , in Suffolk County, New York	United States - New York
Gold	Environment- Management & Pollution	Nicholas Cowan	The Efficient Use of On-Demand Cooling on Solar Panels to Increase Power and Revenue	United States - Texas
Silver	Energy	Christopher Botello	Critical Point Energy Storage	United States - Florida
Silver	Energy	Shixuan Li	Cost Effective Passive Flow Control for Bluff Body Vehicles: A Second Year Study	United States - North Carolina
Silver	Energy	Megan Miller	Application of Tetrahedrite and Magnesium Silicide in a Novel Thermoelectric Unicouple to Generate Electricity from Industrial Waste Heat	United States - Washington
Silver	Energy	Sriharshita Musunuri	Piezoelectric Shoe Insole with Photovoltaic Applications	United States - Missouri
Silver	Energy	Jamielee Buenemann	Enhanced Hydrogen and Third-Generation Biofuel Production from Modified Algae	United States - Texas
Silver	Energy	Wenjia Li	Influence of Ash Components on Active Bed Materials for Biomass Gasification	Sweden
Silver	Energy	Klara Carlström	Revolutionizing a 16th-Century Product for the Modern World: A Thermoelectric Chair That Creates Energy from Human Body Heat	United States - Connecticut
Silver	Energy	Angus Fraser		

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Silver	Energy	Jessica Kim	Improving the Efficiency of Inverted Solar Cells with Gold-Graphene and Styrofoam	United States - New York
Silver	Energy	Aakash Sambhariya	Analyzing the Effect of Biomimetically Textured Wind Turbines on Energy Production	United States - Texas
Silver	Energy	Jason Nelson	Can LIPO batteries work for electrolysis?	United States - Utah
Silver	Energy	Lejla Imširović, Edina Hodžić	FREEZE AND HEAT	Bosnia And Herzegovina
Silver	Energy	Andy Kim	Salinity Impact on the Growth of Marine Nannochloropsis and Freshwater Haematococcus Algae	United States - Texas
Silver	Energy	Hardwynn Tunacao, Cameron White	Enzymatic Biofuel Cells	United States - Virginia
Silver	Engineering	Hunter Phillips	Development of a Novel Unmanned Aerial Vehicle (UAV): Nanoscale Transverse Tilt-rotor Helicopter	United States - Alabama
Silver	Engineering	Jeffrey Hurd, Christin Abraham	Application of Flame Retardant Treated Halloysite Nanotubes in Foam and Plastic Polymers	United States - New York
Silver	Engineering	Nicky Wojtania	A Novel Approach for Tuning Chiral Nematic Structures in Cellulose Nanocrystal Films	United States - Texas
Silver	Engineering	Atul Raghunathan	Harvesting the Excess Thermal Energy Produced by Light Emitting Diodes to Generate Electricity	United States - California
Silver	Engineering	Ari Kanevsky	The Vascular Flow Detection System: Monitoring Vascular Flow using a Novel Deep Learning Application	United States - New York
Silver	Engineering	Erin Bennett	Asthma Acoustics; Promoting Sustainability in today's Global Healthcare Environment	Northern Ireland
Silver	Engineering	Tat Ngai Chan, Pak Hei Chu, Kwun Wing Thomas Li	Superparamagnetic Iron(II,III) Oxide Silver Cysteine Complex Nanoparticles in Adsorbing Heavy Metal Ions and Chiral Recognition	Hong Kong
Silver	Engineering	luis Najera, Ana Avila	Wepark	Mexico
Silver	Engineering	ERSİN ARIÖĞLU	GENERATION OF ELECTRICITY FROM FIRE, AIR, WATER AND EARTH BY ALTERNATIVE METHOD	Turkey
Silver	Engineering	Rahul Mohoto	Foot Step Powered Generator Using Flywheel Energy Storage with Friction Reduction Mechanism.	Bangladesh
Silver	Engineering	Vivek Shah	A Novel Approach to Accurate Scalp Sensor Localization: A 3D Printed Head Frame Methodology	United States - New York
Silver	Engineering	Chun Kit Lam, Siu Wai Lai	Portable Air Quality & Weather Measuring System	Hong Kong
Silver	Engineering	Katerina Valentova	Polymer films - a view of their preparation and characterization	Czech Republic
Silver	Engineering	Yichuan Liu	The Design of Self-generating Corridor Lighting Device	China
Silver	Engineering	Abhay Srinivas	Portable Water Disinfection	United States - New Jersey
Silver	Engineering	Paul Paraschiv, Ionut-Alexandru Baloiu, Andreea-Diana Ghena	Using drones to prevent wildfires	Romania
Silver	Environment- Health & Disease Prevention	Sydney Tay	The ALS treatment of Riluzole is enhanced by nitric oxide inhibition	United States - Texas
Silver	Environment- Health & Disease Prevention	Antonella D'Ascanio	Induction of Indoleamine 2,3-dioxygenase by B. burgdorferi RNA: A mechanism for promoting Lyme disease pathogenesis	United States - New York
Silver	Environment- Health & Disease Prevention	Hyun Soo Jeon, Hyung Seok Roh	The recovery of mitochondrial damage by quercetin suggests a possible link between qi and mitochondria	South Korea
Silver	Environment- Health & Disease Prevention	Mouna Krouma	Conversion and universalization of blood types	Tunisia
Silver	Environment- Health & Disease Prevention	Brian Du	Identifying Prognostic Marker Genes of Breast Cancer	United States - Texas
Silver	Environment- Health & Disease Prevention	Daphne Chen	Synthesis, Characterization, and Wound Healing Implication of Curcumin and Silver Nanoparticles	United States - Florida

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Silver	Environment- Health & Disease Prevention	Ray Huang	Towards a Strategy for Extending Antibiotic Effectiveness Indefinitely: Introducing Antibacterial Bio-Restriction to Inhibit Proliferation of Resistant Pathogens	United States - California
Silver	Environment- Health & Disease Prevention	Samuel Goldman	A network-based identification of virus resistance genes in plants	United States - New York
Silver	Environment- Health & Disease Prevention	Saumya Keremane	A Rapid Field Detection of Liberibacter Bacteria Associated with Potato Zebra Chip Disease Using Lateral Flow Technology	United States - California
Silver	Environment- Health & Disease Prevention	Elizabeth Keeley	Depression Modulates SIRT1 and SIRT2 mRNA Expression in the Prefrontal Cortex, Nucleus Accumbens, and Hippocampus	United States - New York
Silver	Environment- Health & Disease Prevention	Sueda Cetinkaya	Vascular Geometry in Tumors	United States - Texas
Silver	Environment- Health & Disease Prevention	Kristine Zhang	A New Molecular Model for Congo Red- $\beta$ Amyloid Interaction: Implications for Diagnosis and Inhibition of Brain Plaque Formation in Alzheimer's Disease	United States - California
Silver	Environment- Health & Disease Prevention	Evan Cain	Understanding the Effect of siRNA Knockdown of ErbB Receptors on the in vitro Signaling Potency of GGF2 in Various Cell Lines	United States - New York
Silver	Environment- Health & Disease Prevention	Gowri Viswanathan, Amba Viswanathan	The Effect of Copper on Apicomplexan Parasites	United States - New York
Silver	Environment- Health & Disease Prevention	Ria Sur	Muscle Proteome Changes from Prolonged Space Travel	United States - Texas
Silver	Environment- Health & Disease Prevention	Samuel Lewis	Activation of Pro-Inflammatory Genes Suggests Pathogen-Associated Molecular Pattern (PAMP) Component in Giardia lamblia Recognized by the Murine Innate Immune System	United States - New York
Silver	Environment- Management & Pollution	Derris Stanland	Peel Power: The Effectiveness of Various Peel Bio-Adsorbents At Extracting 9 Toxic Elements From Contaminated Water	United States - Kentucky
Silver	Environment- Management & Pollution	Perry Alagappan	A Novel Synergistic Solution for CO2 Capture	United States - Texas
Silver	Environment- Management & Pollution	Aiman Shafiq	BEEware of EMR	United States - Wisconsin
Silver	Environment- Management & Pollution	Enes Thaci, Mirsad Zejnullahu	Complete removal of heavy metals and bacteria from stream & river waters, using lignite as material of membrane	Kosovo
Silver	Environment- Management & Pollution	Linnéa Popa	Secondary Organic Aerosol formation from ozonolysis of limonene at 0% relative humidity	Sweden
Silver	Environment- Management & Pollution	Stoney Maddox, Brandon Grady	Starting From The "Ground" Up	United States - Florida
Silver	Environment- Management & Pollution	Vishal Rajesh, Nisha Rajesh	Mathematical Fire Fighting: Combating Fire with Delaunay Triangulation and Longitudinal Reversible Cellular Automata	United States - Texas
Silver	Environment- Management & Pollution	Anaiza Irani	The Optimization of Saccharomyces cerevisiae using Artificial Selection for Improved Bioethanol Production	United States - Texas
Silver	Environment- Management & Pollution	Anja Kenagy	Investigation of Both Vertebrate and Invertebrate Species from Neritic and Pelagic Zones Demonstrates Both Latitude-Dependent Mercury Bioaccumulation and Species-Specific Trophic Mercury Biomagnification	United States - New York
Silver	Environment- Management & Pollution	Una Sedić, Rabija Hadzimehmedovic ABDEL RAHMAN AL RAJABI, mohammad aldayafleh,	Purification of Contamination	Bosnia And Herzegovina
Silver	Environment- Management & Pollution	Abdelrahman Rahmoun	S.A.R.C.I Irrigation System	Jordan
Silver	Environment- Management & Pollution	Grant Two Bulls	Effects of early Mdewakanton Dakota settlement patterns on the ecology of Lake Calhoun	United States - Minnesota
Silver	Environment- Management & Pollution	Hei Man Fong, Ching Man Felice Tang, Nai To Chan	Beets Revolution	Hong Kong

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Silver	Environment- Management & Pollution	Cathleen Mestre	Statistical Analysis of the Effects of Temperature on Incubation Lengths of <i>Caretta caretta</i>	United States - Florida
Silver	Environment- Management & Pollution	Sarah Alatiyat, Leen AbuAisheh	New Technology for converting the complex carbohydrates in corn cobs into simple glucose that can be used as a source of energy	Jordan
Silver	Environment- Management & Pollution	Macey Middleton/Wallace	Filtering Frenzy: The study of <i>Dreissena polymorpha</i> as effective bio-filters for harmful substances found in freshwater streams of NE Oklahoma	United States - Oklahoma
Silver	Environment- Management & Pollution	RAYHANNE DE ARAÚJO JATOBÁ, KAROLINE RIBEIRO	ANALYSIS OF HEAT ISLANDS IN THE CITY OF JOÃO PESSOA - PB: URBAN GROWTH, THERMAL VARIATIONS AND POSSIBLE SOLUTIONS	Brazil
Silver	Environment- Management & Pollution	ANDREE FRANCISCO VILLEGAS RODRÍGUEZ, JORGE LUIS GONZÁLEZ RODRÍGUEZ	Three-Dimensional Microclimate Model of Inter-Urban Biological Corridor to Mitigate Urban Heat Island (UHI) in the Humid Tropical City of Upala, Costa Rica	Costa Rica
Silver	Environment- Management & Pollution	Michael Steffen	Planning, Constructing and Programming a Hydrogen Car	Switzerland
Silver	Environment- Management & Pollution	Ahmet Batuhan Bayraktar, Ahmet Nurettin Çebi	ALL PLANTS ARE HYPERACCUMULATORS WITH AN ELECTRIC FIELD	Turkey
Silver	Environment- Management & Pollution	Aydar Zaynullov, Aynur Shaimardanov	The Effects of <i>Bacillus subtilis</i> on the growth and development of <i>Triticum aestivum</i> in terms of exposure to lead	Russia
Silver	Environment- Management & Pollution	Deemah Pulak	A Novel Approach for an Affordable Home-Based Biosand Water Filter Using Old Sari /Cotton Cloth	United States - Texas
Silver	Environment- Management & Pollution	Blerim Jashari, Besfort Hashani	A unique naturally humidified fertilizer: sunflower stalk ash and pine cone	Kosovo
Silver	Environment- Management & Pollution	Ales Zupancic, Anja Zupancic	Production of alternative fuel from liquefied excess activated sludge	Slovenia
Silver	Environment- Management & Pollution	Hilal Atesoglu	Evaluating the Potential of Sesame Leaves as a Detoxifier of Toxic Mercury (Hg): Investigating the Effects of Solution pH, Absorbent Dosage, and Initial Metal Concentrations on Removal Rate of Mercury, III	United States - California
Silver	Environment- Management & Pollution	Natalie Bush	Mitigation of Hypoxic Ecosystems Using Hemolymph Analysis of <i>Callinectes sapidus</i> and <i>Procambarus clarkii</i> in Relation to <i>Spartina</i> Grasses, Year 2.	United States - Louisiana
Silver	Environment- Management & Pollution	Amy Zhang	Treatment of E-waste Pollution Through the Bioremediation of <i>Shewanella oneidensis</i>	United States - California
Silver	Environment- Management & Pollution	Sarah Marino	Possible Organic Solutions to Controlling <i>Varroa destructor</i> Mites in Honey Bee Hives	United States - New York
Silver	Environment- Management & Pollution	Marea Hurson	Arrival of the Asian Tiger Mosquito in Westchester County	United States - New York
Silver	Environment- Management & Pollution	Timothy Andrews	Effects of a Hypobaric Environment on Plant Growth and Germination Rates	United States - Ohio
Bronze	Energy	Roshan Duggineni	High Energy Density Sodium-CFx Secondary Battery Technology: Attractive Alternative to Lithium	United States - Kentucky
Bronze	Energy	Krishna Gorrepati	The effect of a p-n TiO <sub>2</sub> /Cu <sub>2</sub> O/ ITO composite junction created using electron beam evaporation on a <i>Shewanella oneidensis</i> MR-1 powered microbial coupled photoelectrochemical fuel cell	United States - South Carolina
Bronze	Energy	Varsha Iyer, Maya Krishnan	Which feedstock is all the talk? Biodiesel more efficient than ever - 2	United States - Texas
Bronze	Energy	Iamees Ahmad	Increasing the efficiency of photoelectric effect to make silicon solar cells a practical substitute for carbon fuels and to save environment	Jordan
Bronze	Energy	Feng Ji, Wenduo Nie	Improvement on the Efficiency of Solution-processed Photovoltaic cells	United States - Florida
Bronze	Energy	Dhruba Dasgupta	Optimization of Tandem Organic Photovoltaic Devices and Their Recombination Layers	United States - Arkansas
Bronze	Energy	Tatum Ogata, Soram Kim	Enhancing Smart Window Design Through the use of Alternative Electrolytes to Augment Infrared Reflectance	United States - New York

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Bronze	Energy	Adithya Chunangad	Microbial Fuel Cells: Waste to Energy	United States - Texas
Bronze	Energy	Hanhui Li	A Household Clean Biomass Cookstove Based on Pyrolysis and Successive Combustion of Pyrolysis Products (Gases and Biochar)	China
Bronze	Energy	Naser Halaseh, Ahmad Saidi	A new design for generating electrostatic electricity from waterfalls that can be used in electrolyzing water and producing hydrogen gas	Jordan
Bronze	Energy	shahd ali	Saving World Energy	Saudi Arabia
Bronze	Energy	Hannah Meller	A Comparison of Various Stoves on Burning Efficiency	United States - Ohio
Bronze	Energy	Roma Patel	Super Panel	United States - Texas
Bronze	Energy	Jiawen Wu	Electroluminescent Property of Graphene Quantum Dots	China
Bronze	Energy	Ahmet Keles, Sukru Dindar	THE EFFECTS OF ANTHOCYANIN MOLECULES ON EFFICENCY OF ORGANIC SOLAR PANELS	Turkey
Bronze	Energy	William Anderson	Effective Optimization of Biogas Production through Alpha-Amylase Utilization	United States - Connecticut
Bronze	Energy	Léo Touchard, Maxime TANGHE	How to optimize the solar oven operating ?	France
Bronze	Energy	Grace Xiong	Novel Solar Fuel Production of Hydrogen Gas Using Plasmonic-Assisted Heterogeneous Catalysis	United States - North Carolina
Bronze	Energy	Zeferin Turturro	Use of Topology To Extend The Range and Utility of Solar Panels For Residences	United States - Arkansas
Bronze	Energy	Đan Anh Nguyễn, Phương Vy Nguyễn	Extraction of butanol from biological cultures of selected high-butanol-resistance microbialspecies	Vietnam
Bronze	Energy	Mahmoud Bachir, Rachel Triebwasser	Microencapsulated Reagents Mitigating Magnesium Hydroxide in Magnesium Air Fuel Cells	United States - New Jersey
Bronze	Energy	Sayan Kuanyshbekov	Different configurations of multiwall carbon nanotube sheets as a counter electrode for dye	United States - Texas
Bronze	Engineering	Morgan Barron	Water Conserving Sanitation Device	United States - Utah
Bronze	Engineering	Chiara Figazzolo, Filippo Cotta Ramusino	Luminol and silver nanoparticles: a brilliant pair	Italy
Bronze	Engineering	Mohamed Alazzeh, Basil Al-kaissy	A new Design for an air conditioner with no compressors and cooling gases and with negligible consumption of electricity	Jordan
Bronze	Engineering	Irina Trapeznikova	A Mobile Setup for the Express Blood Test by Laser Diffractometry Technique	Russia
Bronze	Engineering	Jubin Lee	Development of Adjuvant Power Supply for Vehicle with Phase Change Material and Efficiency Analysis	South Korea
Bronze	Engineering	Gabriel Sutherland	Use of Venturi Tube and Optical Sensors in Remote Control Multi-Rotor to Monitor Crop Health and Deliver Precision Agricultural Treatments	United States - Oregon
Bronze	Engineering	Martin Blecha	Models of Prague subway trains 81-71 and 81-71M	Czech Republic
Bronze	Engineering	KAJOL SHELKE, SAKSHI PANDEY	NOVEL FRUIT/VEGETABLE DRYER WITH INTEGRATED MOISTURE CAPTURE DESIGN.	India
Bronze	Engineering	Ester Archer	Maximizing Carbon Sequestration in a Freshwater Photobioreactor: Year Two	United States - Minnesota
Bronze	Engineering	Mohamed Abou-Steat, Moustafa Moustafa	DWCNT All Carbon Solar Cell	Egypt
Bronze	Engineering	Marygrace Duggar, Olivia Guidry	A Greener Shade of Grey: The Effects of a Novel Water-Reducing Geopolymer on SO3 in Non-Standard Coal Combustion Residues	United States - Louisiana
Bronze	Engineering	YUE-ER HSU	A Compact Wireless Transmit for DC Charging	Chinese Taipei
Bronze	Engineering	Egor Koshmin	Web-based suveyor hexapod RMRv 2.0	Russia

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Medal	Category	Contestant	Project Title	Country
Bronze	Engineering	Norbert Wesely	Heating controlled by microcontroller	Hungary
Bronze	Engineering	Michael Meng, Jeffrey Cheng, Michael Qu	Enhancing Graphene Oxide's Electron Hole Extraction Properties via Reduction, Gold Nanoparticles, and Carbon Nanotubes to Improve Current-Voltage Characteristics and the Power Conversion Efficiency of Organic Photovoltaics	United States - California
Bronze	Engineering	Robert Karp, Karthik Rao	A Network Flow Based Approach for Post-Merger Airline Hub Consolidation	United States - New York
Bronze	Engineering	Matthew Rogers	New Invention Utilizing Wave Power to Facilitate Reverse Osmosis Water Desalination	United States - Connecticut
Bronze	Engineering	Dhanushree Padmanabha Reddy, Lavanya Hemanth	A novel design of nasal mask using silica sheet infiltrated with slurry of PVA and activated carbon	India
Bronze	Engineering	Christina Love	A Study on Creating a Superhydrophobic Film on Aluminum	United States - Tennessee
Bronze	Engineering	Shiloh Curtis	Enabling Situational Awareness: A Hat-Based Hands-Free Haptic Navigational Aid for the Visually Impaired	United States - California
Bronze	Engineering	Vignesh Bhethanabotla	Engineering an Upconversion Photocatalyst for Environmental and Energy Applications	United States - Florida
Bronze	Engineering	Mason Brudzinski	Development of a Low-Cost Aggregate Imaging System	United States - Michigan
Bronze	Engineering	Mukateyev Nurzhan, Sezbek Yermek	Machine of the future	Kazakhstan
Bronze	Engineering	Toregeldi Aytbek, Alissultan Abdullayev	Studying of composition of archaeological materials	Kazakhstan
Bronze	Environment- Health & Disease Prevention	Catherine Malisse	Use of Speckle Tracking Analysis for the Early Identification of Cardiovascular Dysfunction as a Consequence of Diabetic Cardiomyopathy	United States - New York
Bronze	Environment- Health & Disease Prevention	Dragos Mihai Serban	A non-invasive approach to brain tumors' classification based on their textural pattern in MR images and CT scans	Romania
Bronze	Environment- Health & Disease Prevention	Jung Hyun Chae	Development of Novel Porcine Circovirus Synthetic Peptide Vaccine to Induce Humoral and Cell-Mediated Immunity in Pigs	South Korea
Bronze	Environment- Health & Disease Prevention	Sang Won Kim, Ji Yoon Moon, Hyeon Sik Lee	Study of Inhibition of cell growth and down-regulation of telomerase activity by amygdalin in cancer cells	South Korea
Bronze	Environment- Health & Disease Prevention	Nesrine FATHALLAH, Salma BELAZREG	HBV Quick TEST	Tunisia
Bronze	Environment- Health & Disease Prevention	Emanuele Fornasier, Mattia Gamboso, Giulia Pelos	Freezer Keeper	Italy
Bronze	Environment- Health & Disease Prevention	Johan Christensen, Emil Sørensen, Steffen Skindbjerg	Reducing the expression of Escherichia coli by introducing probiotic bacteria	Denmark
Bronze	Environment- Health & Disease Prevention	Aarathi Sahadevan	BET Bromodomain Inhibition with JQ1 Prevents Pathological Cardiac Remodeling in a Mouse Model of Heart Failure	United States - Ohio
Bronze	Environment- Health & Disease Prevention	HATICE ÖZTEKİN, ÖZGÜR ÜLKER	A New Generation Colorimetric Method for Lead Analysis: APTAMER MODIFIED GOLD NANOPARTICLES	Turkey
Bronze	Environment- Health & Disease Prevention	Marta Chichilova, Anastasiya Barbarenko	Universal monoblock for osteosynthesis	Ukraine
Bronze	Environment- Health & Disease Prevention	Miha Papic, Matija Tomc	Light Induced Gene Expression in Mammalian Cells	Slovenia
Bronze	Environment- Health & Disease Prevention	James WoMa, Nikhil Rajan	Using Computational Modeling to Assess Cardiac Dyssynchrony	United States - New York
Bronze	Environment- Health & Disease Prevention	Ekaterina Remezova	Impact of Air Humidity on Fungal Aerosols in Classroom Environment	Russia

## I-SWEEEP 2015 Category Award Winners

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Bronze	Environment- Health & Disease Prevention	GULBAHAR BOZKURT, GULNIHAL BOZKURT	Analyzing neurotoxic effects of centaurium erythraea and momordica charantia plant extracts on nerve cell based cancer cells.	Turkey
Bronze	Environment- Health & Disease Prevention	Nitya Thakore, Madeleine Ference	Cardiac Neural Crest Cell Ablation Resulting in Cardiac Defects Similar to Those Displayed After Prenatal Ethanol Exposure	United States - Ohio
Bronze	Environment- Health & Disease Prevention	Hebatalla Ahmed, Noorhan El-Bassyony	NH rapid test for detecting breast cancer recurrence at home	Egypt
Bronze	Environment- Health & Disease Prevention	SEIFOULLACH SAATSI	New Generation Compression Bandage	Turkey
Bronze	Environment- Health & Disease Prevention	JOSÉ ANDRÉS CHAVARRÍA GUEVARA, EMANUEL ALBERTO QUESADA	Bio-Control Larval of Dengue Virus Mosquito (Aedes aegypti) Through Larvicidal Activity of Calcium Oxalate Crystals (CaC2O4) of Seeds from Tree of Life (Moringa oleifera)	Costa Rica
Bronze	Environment- Health & Disease Prevention	QUIRÓS	Activity of Calcium Oxalate Crystals (CaC2O4) of Seeds from Tree of Life (Moringa oleifera)	Costa Rica
Bronze	Environment- Health & Disease Prevention	Mohamed Mohamed	Lung Cancer Cell Isolation and deprivation of Nutrition	Egypt
Bronze	Environment- Health & Disease Prevention	Dayoung Lee	The Exposure of Soft, Fruit Based, Energy, and Ion Drinks on the Tooth: the Potential Influence on Biofilm Growth	United States - New Jersey
Bronze	Environment- Health & Disease Prevention	Hana Zupan, Zala Štefanič	Geographical Origin of Milk	Slovenia
Bronze	Environment- Health & Disease Prevention	Josephine Panzo, Tchissola Figueiredo	THE TREE OF LIFE	Angola
Bronze	Environment- Health & Disease Prevention	Giao Vo, My Linh Lam Viet	Discover binding pathways using the sliding binding-box docking approach: pathway docking of oseltamivir to influenza white type, H274Y and N294S	Vietnam
Bronze	Environment- Health & Disease Prevention	Jonathan McCutchen	A Novel EDCSP: Evaluating the Effects of Flutamide as an Endocrine Disrupting Compound (EDC) at Environmentally Relevant Concentrations Through Utilization of Modified OECD Assays and MDA-TBARS/ Cytochrome p4503A5CYP2B Enzyme Analysis Concerning D. magna	United States - Texas
Bronze	Environment- Health & Disease Prevention	Afeefah Khazi-Syed	NANO Today, HUGE Tomorrow: Improving Antibiotic Drug Delivery with Nanoparticles	United States - Texas
Bronze	Environment- Health & Disease Prevention	Aissata Sow, Vicdan Izol	Boabab fruit effect on the body calcium level	Senegal
Bronze	Environment- Health & Disease Prevention	Se In Kim, Tak Hyun Lee	Drug molecule design using the computer program	South Korea
Bronze	Environment- Management & Pollution	Elizabeth Fairchild	Utilization of a Red Worm Windrow to Reduce Volume and Density of Horse Manure to Minimize Ground Water Contamination in a Horse Stable or Farm Environment.	United States - Florida
Bronze	Environment- Management & Pollution	Ellen Kendall	Evaluation of Heavy Metal Removal by Sodium Alginate Beads	United States - Kentucky
Bronze	Environment- Management & Pollution	Catherosette Meas, seval kokten	Biodiesel From Moringa Oleifera Seeds	Cambodia
Bronze	Environment- Management & Pollution	Madison Ransom	Applying the Process of Bipolar Electrodialysis for the Safe Disposal of Acid Whey, the Byproduct of Greek Yogurt Production	United States - Washington
Bronze	Environment- Management & Pollution	Jiwon Cho	Method of removing radioactive strontium in soil bacteria that damage the cell wall	South Korea
Bronze	Environment- Management & Pollution	Pacharapol Apinuntachart, Chakkaphan Kangkorn	Eco-friendly cycling helmet	Thailand
Bronze	Environment- Management & Pollution	Daniel Rub	Effect of Organic and Chemical Contaminants on Hydrogen Ions in Soil pH	United States - Florida
Bronze	Environment- Management & Pollution	Tayiah Hanson	The power of clay: The use of clay as a possible pharmaceutical waste water treatment removal method and the subsequent effect on the germination and root length of Lactuca sativa (Grand Rapids Lettuce)	United States - Minnesota
Bronze	Environment- Management & Pollution	Peter Schnitzhofer, Theresa Eichhorn	Soilution - The Future of Soil	Austria
Bronze	Environment- Management & Pollution	Juan Jimenez	Hot Water For Everybody	United States - Arizona

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Medal	Category	Contestant	Project Title	Country
Bronze	Environment- Management & Pollution	Camila Benitez	Correlation Analysis of the Environmental Pollution and Traffic Flow levels in Two Different Areas in the City of Concordia, Province of Entre Ríos.	Argentina
Bronze	Environment- Management & Pollution	SULTAN VALIYEV, ORKHAN MACIDL	Multifunctional Electric Producer Machine	Azerbaijan
Bronze	Environment- Management & Pollution	Carlan Ivey	Observing Ionization Mechanism of High Energy Cosmic Interactions	United States - Georgia
Bronze	Environment- Management & Pollution	Tanvee Patankar	How Green Are Our Cars?	United States - Illinois
Bronze	Environment- Management & Pollution	Erin Burba	Relations between Mycorrhizal Abundance and Biofuel Crop Yield	United States - Kentucky
Bronze	Environment- Management & Pollution	Benjamin Child	Solar Water Pasteurization For Use In Disaster Areas and Developing Nations	United States - New York
Bronze	Environment- Management & Pollution	Jelilat Odubayo	Seismic Solutions	United States - Texas
Bronze	Environment- Management & Pollution	Sophie Bardos	Creation of an Energy Efficient, Low-Cost Water Purification System via a Graphene Oxide Composite Membrane with Incorporated Nanostructures	United States - Connecticut
Bronze	Environment- Management & Pollution	Alejandro Maciel Jacob, Carlos Martínez Salinas	Self sustaining Eco-house	Paraguay
Bronze	Environment- Management & Pollution	Azizjon Norinov, Farkhod Mukhiddinov	Mandarin peel an agricultural waste as low cost bioabsorbent for lead heavy metal removal from soil	Tajikistan
Bronze	Environment- Management & Pollution	Ramar Allen	Effect of Concentrations of Bactericide on R. leguminosarum	United States - Georgia
Bronze	Environment- Management & Pollution	Alondra Concepcion	Zeolite Regeneration with Rhizobacteria	Puerto Rico
Bronze	Environment- Management & Pollution	Seung hee Hong, Ye Ji Yun	Development and applications of quantification method of pedogenic iron oxides using diffuse reflectance spectroscopy	South Korea
Bronze	Environment- Management & Pollution	Kaylee Dunngian	Bio Filtration of Nitrogen Fertilizer	United States - New Mexico
Bronze	Environment- Management & Pollution	Kinjal Saradva, Jahnavi Kanani	A novel process to create eco-friendly composite material by recycling coconut husk and waste paper	India
Bronze	Environment- Management & Pollution	Amy Li	Novel Phytoremediation Advancements: Response of Andropogon gerardii to Arbuscular Mycorrhizal Fungi, Seed Ecotype, and Heavy Metal Contamination Alterations	United States - Pennsylvania
Bronze	Environment- Management & Pollution	Hannah Lee	Effectiveness of Seaweed as Mulch and Fertilizer	United States - Florida
Bronze	Environment- Management & Pollution	Boonyakorn Assavanives, Krit Kruaykitanon	Prediction Model for Water and Air Qualities Using Characteristics of Air Bubbles	Thailand
Bronze	Environment- Management & Pollution	Akanitoro Brown	Detection of Engineered Metal Oxide Nanoparticles in Natural Soil Matrices: A Novel Spectrophotometric and Selective Flotation Approach	United States - New York
Bronze	Environment- Management & Pollution	April Pivonka	Location, Location, Location: Effects of Stream Location on Hydroponic Plant Growth	United States - Pennsylvania
Bronze	Environment- Management & Pollution	Austin Brewer	Development of a phytoremediation system using Spirogyra to remove triclosan from our water supply	United States - Kansas
Bronze	Environment- Management & Pollution	ADİ HAJRULLAJ, ALBİ MARQESHİ	REUSING OLIVE PITS TOGETHER WITH SUNFLOWER STALKS TO REMOVE PHENOL FROM WASTE OF OLIVE OIL MILL BY THE METHOD OF FILTERING	Albania
Bronze	Environment- Management & Pollution	Drini Dracini, Sheri Tuzi	Smog sucking city	Albania
Bronze	Environment- Management & Pollution	ADESOLA DAMOLA-OKESIJI, OLUCHI ULUOCHA, Omotayo Akinola	Lagtoilet Mobile App	Nigeria
Bronze	Environment- Management & Pollution	Piero Jiménez	Treatment for Desertification by “Huarango” (Prosopis limensis) and creation of fertile habitats	Peru
Bronze	Environment- Management & Pollution	Ahmet Hataman, Memduh Karabulut	Feasibility Study of Using Nata de Coco as Material For Biodegradable Plastic	Philippines
Bronze	Environment- Management & Pollution	Natalia Asenjo-Molina	Rhizophora mangle as a marker of the contamination of an estuary system	Puerto Rico

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Medal	Category	Contestant	Project Title	Country
Bronze	Environment- Management & Pollution	Paritt Wongtrakool, Piwat Chongcharoen	Water Quality Analysis and Overall System Management Software for Reduction of Water Pollution from Coastal Marine Aquaculture	Thailand
Bronze	Environment- Management & Pollution	Hacibey Catalbasoglu, Burak Eraslan, Ahmet Sirrik	Thin liquid films in improved oil recovery from low-salinity brine	United States - Connecticut
Bronze	Environment- Management & Pollution	Paige Brown	Identifying and Remediating the Sources of Pollution in Impaired Bangor Streams	United States - Maine
Bronze	Environment- Management & Pollution	Elaine Adams, Ella Haefner	The Effect of Current Minnesota Triclosan Concentrations on Daphnia magna	United States - Minnesota
Bronze	Environment- Management & Pollution	Hiu Lam Yan, Ka Fai Kwok	Removal of Cooking Fume and Odors in Cooking Exhaust	Hong Kong
Bronze	Environment- Management & Pollution	Natasha Gupta	Coal-Ash Pond Management: Studying Groundwater Flow using Darcy's Law	United States - Kentucky
Bronze	Environment- Management & Pollution	Elizabeth Westerfeld	From Frac to Fresh?; Removing Toxins from Hydraulic Fracturing Water	United States - Texas
Bronze	Environment- Management & Pollution	Suchin Patel	A Refreshing Glass of Sewer	United States - New Mexico
H.M	Energy	Zinnat Maksutov, Azat Musargalin	Filtering the exhaust of a diesel engine using waste heat.	Russia
H.M	Energy	Kade Gross	Light Shifting: Improving Solar Panel Output Using Fluorescence	United States - Arizona
H.M	Energy	YOSI KOHEN KUTUCU, MARK ALBERT ADUT	ELECTROMAGNETIC RADIATION HUNTER	Turkey
H.M	Energy	Katherine Balfany	Lattice Coherency in Mechanochemical Preparation of Magnesium and Titanium Metal Hydrides	United States - Missouri
H.M	Energy	Shelley Sundae Naparota, Christine Senan Pechay	The Efficiency of Coleus blumei (Mayana), Rhoeco discolor (Bangka-bangkaan), and Senegalia greggii (Acacia) Leaf Extracts as Sensitizers for Dye-sensitized Solar Cells	Philippines
H.M	Energy	MÜNTEHA NUR ALAY, KEVSER NAZ DUYSUŞ	GENERATING HYDROPHOBIC SURFACE BY USING MOLDS OF CITRUS FRUITS	Turkey
H.M	Energy	Javier Lopez	Utilizing water as a Fuel Economizer through Electrolysis	United States - Texas
H.M	Energy	Jesse Hummen, Menno Gilhuis,	EWE Science	Netherlands
H.M	Energy	Tiasha Joardar	Development of a Novel Hybrid Solar Cell Using Thermoelectric Control	United States - Texas
H.M	Energy	Lauren Low	The Optimization of Conditions for an Enzymatic Bio-Battery	United States - Connecticut
H.M	Energy	MUHAMMAD ZULHILMI MOHD NIZAM, FADZULHASNI FADZIL	Super Green Energy Harvester (SGEH)	Malaysia
H.M	Energy	Michael Espy	Renewable Sources of Energy: A Study of Low-Cost By-Products, Cattle Manure and Nitrogen for Methane Gas Conversion Production	United States - Wyoming
H.M	Energy	Anusha Dixit	The Effect of Relative Humidity on Solar Cell Efficiency	United States - Maryland
H.M	Energy	IMRAN DAVRISHOV, ARSTANBEK ISABEKOV	AUTOTHERMAL HEAT-INTEGRATED WALL REACTOR FOR SIMULATION OF HYDROGEN PRODUCTION FOR FUEL CELL APPLICATIONS	Kyrgyzstan
H.M	Energy	Zeynep Sude Celik, Feyza Decdeli, Meryem Oner	Development of color controlled rechargeable ecological battery	Turkey
H.M	Energy	Beatriz Germano, Larissa Moura, João Barboza	Lighter body and environmental awareness: outdoors fitness health gyms as power generators	Brazil
H.M	Energy	Ayda Lyana Mohd Ayob	Au-TiO2 Nanotube Towards Green Energy	Malaysia
H.M	Energy	Luis Pedro, Jose Kamwanga	The most affordable solar panel	Mozambique
H.M	Energy	Samar AlQahtani	Modeling of Germanene: A High Efficiency Solar Cell	Saudi Arabia
H.M	Engineering	Augustus Fort	Got Saltwater? Desalination!	United States - Mississippi
H.M	Engineering	Igor Zovtik, Michal Urban	Robot Snail	Slovakia

## I-SWEEP 2015 Category Award Winners

Medal	Category	Contestant	Project Title	Country
H.M	Engineering	Daryna Kyrylova, Dmytro Shcherbyna	New eco- friendly type of phosphate coating on the steel	Ukraine
H.M	Engineering	Kashka Johnson	Helicopter Blade Design	United States - Indiana
H.M	Engineering	Meredith Guidry	The Effect of Recycled Aggregate on Cementitious Fireproofing	United States - Louisiana
H.M	Engineering	Hayden Burch	The Wind Wing- Evaluation of a Novel Engery Capture Device	United States - Alabama
H.M	Engineering	Ana Wollenhaupt, Christopher Michel	Alternative Paving Rubber Based	Brazil
H.M	Engineering	Thomas Dorminy	Air Flow Power Harvesting Using Thin Film Piezoelectric Transducers	United States - Georgia
H.M	Engineering	Abiola Omosowon, OREOLUWA OKE, Omogbolahan Bruce	THE ELECTRONIC WALKING STICK AN ALTERNATIVE COOL MIST- GENERATING AUTOMOBILE AIR-CONDITIONING	Nigeria
H.M	Engineering	RIFAT BİRMİZRAHI, SANDY KASAVI	UNIT RUNNING ON SOLAR ENERGY	Turkey
H.M	Engineering	Albert Fuglsang-Madsen	Project BioColour	Denmark
H.M	Engineering	Sathya Anisetti	Electropack: A Novel Approach to Generating Electricity With A Backpack	United States - Massachusetts
H.M	Engineering	Sarah Palmer	Watts in the Wind/Water III	United States - Texas
H.M	Engineering	WeiHang Gao, Siman Li	A Research on Energy-saving Technology for Vans	China
H.M	Engineering	Reshad Nur, Omar Abdirizak Omar	Enhanced Conductivity of Block Copolymer Electrolytes for Lithium Batteries	Somalia
H.M	Engineering	Venancz Patrovics, Hung Nguyen	Lane-Detection Self-Driving Car	United States - Texas
H.M	Engineering	ARSENI ANISHCHANKA, MATSVEI PARMON	Features of behavior of tough structural elements under the influence of periodic loads.	Belarus
H.M	Engineering	Kamila Alshagirova, ULZHAN TATTYBAYEVA, ABYLAIKHAN BAIDAULETOV	Alternative Energies - ECO-TWIN TOWERS	Kazakhstan
H.M	Engineering	Şafak Çallıoğlu, Mehmet Karakaş	Rotational (Eddy) Currents in a Copper Pipe	Turkey
H.M	Environment- Health & Disease Prevention	Amin Najat, Muhammed Shamal	Smart Capsule	Iraq
H.M	Environment- Health & Disease Prevention	Selen Erpolat, Ege Sanem Oturmaz	LANGUAGE OF THE PLANTS BIOHERBICIDES Pottery, Sealant,... Antibiotic? The Potential Use of Clay As A Biological Weapon	Turkey
H.M	Environment- Health & Disease Prevention	Meghana Nadella	In The War Against Superbugs	United States - Texas
H.M	Environment- Health & Disease Prevention	Chenbing Zhang, Linfeng Lou	Study on Extraction and Dyeing of Natural Plant Pigment	China
H.M	Environment- Health & Disease Prevention	Connor Cleveland	Mosquito Borne Illness Prevention - A 3rd Year Study: The Inhibition of Larval Growth as Affected by Essential Amino Acids Added to Standing Water	United States - Florida
H.M	Environment- Health & Disease Prevention	Gurhan Uzum, Hamza Mert Serinken	Reducing Formaldehyde Emission in the Particle Boards while using Cupule (bur) of endangered American Chestnut (Castanea Dentate).	Canada
H.M	Environment- Health & Disease Prevention	Keney Young-Odor, Allen Ha	Open Sesame	United States - Texas
H.M	Environment- Health & Disease Prevention	Oluwatosin Anjorin, Vhenyse Encarnacion	Fungi Isn't Such Fun Guy	United States - Texas
H.M	Environment- Health & Disease Prevention	MICHAEL ANDREI SAMEON, GLEBONIE CANONO	Okra (Abelmoscus Esculentus) For Blood Coagulation	Philippines
H.M	Environment- Health & Disease Prevention	Chase Cleveland	Purification of Polluted Water Systems - A Continuation Study: The Effectiveness of Herbs in Removal of Heavy Metals from Drinking Water Supplies	United States - Florida
H.M	Environment- Health & Disease Prevention	Aidong Sun	Touchless and filter-free PM2.5 detector of dual wavelength	China
H.M	Environment- Health & Disease Prevention	YACINE AMADOU MOUSTAFA, ABDULLAY TOURE	The-effects-of-magnetic-fields-on-plant-growth-and-health	Mali

## I-SWEEP 2015 Category Award Winners

Medal	Category	Contestant	Project Title	Country
H.M	Environment- Health & Disease Prevention	NI MADE ADNYA SUASTI Amirye Khairat, Sainkhuu Enkh-	EXTRACTION OF 2-BENZOTRIAZOL- 2-YL-6-ISOPROPYL-4- (1METHYL-1-PHENYL-ETHYL) -PHENOL COMPOUND ON LEAF EPIDERMIS PARASITE (Loranthus parasiticus) FOR UV-STABILIZER	Indonesia
H.M	Environment- Health & Disease Prevention	Otgon	Extraction of wheat germ oil by commercial Ethanol	Mongolia
H.M	Environment- Health & Disease Prevention	Wyatt Nunn	Different Mediums for Equine MSC injection Post Cryopreservation	United States - Texas
H.M	Environment- Health & Disease Prevention	Simran Modi	Novel Antibiotic Targets: Proteins Involving Degradation of mRNA Based on 2'3'-cNMPs in E. coli Over-Expressing HigB	United States - Georgia
H.M	Environment- Management & Pollution	Flaka Fazlija, Zarife Kuka	ABSORPTION OF CO <sub>2</sub> , CO AND UNBURNED HYDROCARBON GASES BY BASIC FLY ASH AND ZEOLITE IN VEHICLE'S EXHAUST SYSTEM	Kosovo
H.M	Environment- Management & Pollution	Anjeli Nandwani	The Effects of Azadirachta indica on Whiteflies	United States - Florida
H.M	Environment- Management & Pollution	Aishah Ahmed	Physiological and Behavioral Effects of a Neonicotinoid Insecticide and its Transformation Product on Non-Target Keystone Species	United States - Michigan
H.M	Environment- Management & Pollution	Andrew Hong, Paul Hong	Discovering and Assessing the Synergistic Effects of Associating Eichhornia crassipes with Strains of Actinomycetes for the Detoxification of Pb(II) Contaminated Water	United States - Rhode Island
H.M	Environment- Management & Pollution	Wesley Thompson, Haley Newby	The Effect of a Photocatalytic Purifying Chemical on Copepod Survival	United States - Mississippi
H.M	Environment- Management & Pollution	Mariah Griner	Are Wetlands the Key? Comparing Nitrate Levels in the Upper and Lower Santa Fe River	United States - Florida
H.M	Environment- Management & Pollution	ELONA LUSHI, JOANA MUCOGLAVA	REMOVING PHENOL FROM WASTEWATER BY CLEANING ENVIRONMENT FROM CIGARETTE FILTERS	Albania
H.M	Environment- Management & Pollution	Ana Carolina Prison Storti	STUDY OF ÁGUA FRESCA STREAM BASIN AND THE IMPACT OF WATERPROOFING, PRECIPITATION, EROSION AND SILTATION IN IGAPÓ LAKE II	Brazil
H.M	Environment- Management & Pollution	Adelin Bolea, Vlad Harti	Drought relief by natural treatment	Moldova
H.M	Environment- Management & Pollution	Aleksandra Nikolova, Eftim Ristov	The ultimate captivator of heavy metals	Macedonia
H.M	Environment- Management & Pollution	Bryan To	Qualities of Ice and their Effect on the Time of Melting	United States - Oregon
H.M	Environment- Management & Pollution	Ashwin Swaminathan	Portable Solution to Make Water Potable "Portland cement and slaked lime" The Most Efficient Inexpensive Inorganic and Environmentally Friendly Additive for Stabilization and Solidification of Zinc-Lead Slag	United States - Virginia
H.M	Environment- Management & Pollution	Tamara Savevska, Sinisha Jovikj HAJARRUL NISHA MOHAMMAD SUHAIMI, NUR HIDAYAHTUL HUSNA		Macedonia
H.M	Environment- Management & Pollution	NORMAT	BIOLOGICAL TREATMENT OF ACIDIC POME USING SOIL MIXED CULTURE	Malaysia
H.M	Environment- Management & Pollution	Luke Little	One Step Closer to a Self-Sufficient Aquaponic System	United States - Missouri
H.M	Environment- Management & Pollution	Brock Colyar	Differentiation in Salamander Populations and Body Condition Around Aquatic Impoundments	United States - Tennessee
H.M	Environment- Management & Pollution	Taylor Hall	Effect of Ibuprofen on the Growth of Pisum Sativum and Zea Mays	United States - Vermont
H.M	Environment- Management & Pollution	Sidharth Bommakanti Muhammad Nishar, Mehmet	Wellness Water: Implementation of a Sustainable, Low-Cost Dual-Filtration System to Eliminate Pesticides, Hypoxia, Coliform Bacteria, and Excess Turbidity in Order to Clarify Contaminated Domestic Water Sources in Rural Communities	United States - California
H.M	Environment- Management & Pollution	Canbolat	UTILIZATION OF GROUNDNUT SHELL AS LOW COST ABSORBENT FOR HEAVY METAL COPPER (II) IONS	Australia
H.M	Environment- Management & Pollution	Rakshith Mullukatte	A Novel Biotechnological Approach to Isolate and Identify Bacteria in Soil that Degrades Polyethylene	United States - Washington

## I-SWEEEP 2015 Category Award Winners

Medal	Category	Contestant	Project Title	Country
H.M	Environment- Management & Pollution	Channimol Touch, Soksereysopha Dep	UTILIZATION OF EGG SHELL WASTE AS HEAVY METAL HUNTER	Cambodia
H.M	Environment- Management & Pollution	Javiera Solange Miranda Plaza, Sebastián Antonio Rivera Michea	Gryphaea Calceola a look at marine Jurassic paleoecological Cerritos Bayos. Calama, Chile.	Chile
H.M	Environment- Management & Pollution	Diana Chalabayeva, Lola Argymbekova	allocation and studying of the microorganisms participating in destruction of oil and mineral oil	Kazakhstan
H.M	Environment- Management & Pollution	Zachary Reid	Evaporation Prevention Monolayers	United States - Texas
H.M	Environment- Management & Pollution	Andrew Barton	Are the BWCA Lakes Affected By Acid Rain and Can Acidic Lakes Be Restored Using Calcium Carbonate?	United States - Minnesota
H.M	Environment- Management & Pollution	KHUONG LE DINH, Nguyen Huu	Research on using microbial preparation for processing domestic waste into microbial organic fertilizer	Vietnam
H.M	Environment- Management & Pollution	Trang THO		
H.M	Environment- Management & Pollution	Shaun Varghese	The Novel and Eco-Friendly Redesign to Recycling Polystyrene	South Africa
H.M	Environment- Management & Pollution	Abigail Butler	Monitoring Pollutants in the Lower Minnesota Watershed and Evaluating the Efficiency of Various Types of Buffer Zones	United States - Minnesota
H.M	Environment- Management & Pollution	Tiffany Cheuk Wing CHAN, Shi Kei WU, Katherine Wing Kay LAI	Devising a test kit to monitor heavy metal ions in industrial wastewater	Hong Kong
H.M	Environment- Management & Pollution	Maria Silva, Cicero Paulo Santos	Reciclyng of used - cooking oil to produce biodiesel, glycerin and soap phase II: planning a low cost reactor	Brazil
H.M	Environment- Management & Pollution	Silva, Alanna Lucena		
H.M	Environment- Management & Pollution	EMRE OZSAHIN, VEDAT ERVAN	PURIFICATION OF WASTE WATER BY PUMPKIN PEEL (cucurbitae moschata).	Pakistan
H.M	Environment- Management & Pollution	John Edward Cayas, Althea Arnoco, Roxanne Reyes	Herbal Enthusiasts' Robot Buddy (H.E.R.B.)	Philippines
H.M	Environment- Management & Pollution	Suwimol Songsrichan, Jenjira Tomuang, Suwanan Manim	Oil Absorbent Mat Comprising Fiber Fragments of Typha angustifolia Used for Domestic Household and Auto Services in Rural Areas	Thailand