

## 13<sup>th</sup> SSYS WINNERS LIST (2024)

No	Winner Category	Code	Title	School	Country
1	<b>MOST PROMISING YOUNG SCIENTIST(S)</b>	FP_PH_63	<b>EYE-RIN: UTILIZATION OF DEEP LEARNING ALGORITHMS FOR REAL-TIME CAMERA RECOGNITION OF PERSONS WITH ZONOTIC DISEASE THROUGH EYE IMAGES</b>	<b>Naga City Science High School Balatas Naga City</b>	<b>PHILIPPINES</b>
<b>GOLD MEDALIST (1)</b>					
1	<b>GOLD - Special Award for Benefit(s) to the Community</b>	FP_PH_29	<b>Dermotect: An Assistive Dermoscopy Screening Device for Early Detection of Selected Cancerous Skin Diseases and Their Severity using Machine Learning Ensemble</b>	<b>Bansud National High School</b>	<b>PHILIPPINES</b>
2	<b>GOLD - Special Award for Educational Contribution</b>	FP_MY_21	<b>"ECRIAN-POT (AN ECO-FRIENDLY PLANTING POT) REPRESENTING A GROUNDBREAKING INITIATIVE IN STEM DEDICATED TO FOSTERING SUSTAINABILITY FOR BOTH THE ENVIRONMENT AND HUMANITY"</b>	<b>SEKOLAH MENENGAH SAINS SULTAN MOHAMAD JIWA</b>	<b>MALAYSIA</b>
3	<b>GOLD - Special Award for Commercial Potential</b>	ON_TH_01	<b>Innovative Cat Litter</b>	<b>Kaennakhon Witthayalai School</b>	<b>THAILAND</b>
4	<b>GOLD - Special Award for the Application of STEM Concepts</b>	FP_ID_11	<b>INNOVATION'S PRODUCT (MORISTEVI JELL) MADE FROM MORINGA LEAVES, STEVIA LEAVES AND SEAWED AS AN EFFORT TO PREVENT ANEMIA AND CREATE</b>	<b>SMA NEGERI 1 SITUBONDO</b>	<b>INDONESIA</b>

			<b>YOUNG ENTREPRENEURS</b>		
5	<b>GOLD - Special Award for Creativity/Innovation</b>	FP_PH_63	<b>EYE-RIN: UTILIZATION OF DEEP LEARNING ALGORITHMS FOR REAL-TIME CAMERA RECOGNITION OF PERSONS WITH ZONOTIC DISEASE THROUGH EYE IMAGES</b>	<b>Naga City Science High School Balatas Naga City</b>	<b>PHILIPPINES</b>
6	<b>GOLD - Outstanding Award for Project Report</b>	FP_PH_67	<b>Molecular Docking of Phytochemicals Against <math>\beta</math>-ketoacyl-acyl Carrier Protein Synthase I KasA (PDB ID: 2WGE) Enzyme of Mycobacterium tuberculosis</b>	<b>Muntinlupa Science High School</b>	<b>PHILIPPINES</b>
7	<b>GOLD - Outstanding Award for Presentation</b>	FP_PH_04	<b>Potential Pharmacological Application of Achatina fulica (Giant African Land Snail) Hemolymph Tested via Daphnia Magna Myogenic Heart as Model for Cardiovascular Performance Measurement Addressing Tachycardia</b>	<b>Bansud National High School - Regional Science High School for MIMAROPA</b>	<b>PHILIPPINES</b>
8	<b>GOLD - Outstanding Award for Project Exhibit</b>	FP_MY_28	<b>AI Aquaponics System</b>	<b>SMJK Perempuan China Pulau Pinang</b>	<b>MALAYSIA</b>
<b>SILVER MEDALIST (4 TEAMS PER CATEGORY)</b>					
1	<b>SILVER - Special Award for Benefit(s) to the Community</b>	FP_PH_111	<b>SIMOY: Solar Integrated Machine for Oryza sativa (Rice Grains) Dryer</b>	<b>Quezon City Science High School</b>	<b>PHILIPPINES</b>
		FP_PH_60	<b>AquAlert: An IoT-based Water Quality Monitoring System with GPS Integration</b>	<b>Goa Science High School</b>	<b>PHILIPPINES</b>
		FP_PH_23	<b>ELEQUA: Solar-Powered Intelligent</b>	<b>Vinzons Pilot High School</b>	<b>PHILIPPINES</b>

			<b>Water Quality Monitoring with Electrolysis System in Aquatic Freshwater Environments</b>		
		<b>FP_MY_32</b>	<b>MAHKOTA DEWA AGRO FARMING REPELLENT AGENT (MDAFRA)</b>	<b>SMK DATUK HAJI AHMAD BADAWI</b>	<b>MALAYSIA</b>
<b>2</b>	<b>SILVER - Special Award for Educational Contribution</b>	<b>FP_PH_50</b>	<b>Design and Development of Residential Earthquake Warning Device: Enhancing Earthquake Impact Mitigation and Disaster Resilience</b>	<b>University of Batangas</b>	<b>PHILIPPINES</b>
		<b>FP_ID_08</b>	<b>Device to Monitor Degree of Acidity Level</b>	<b>Amalina Islamic Junior High School</b>	<b>INDONESIA</b>
		<b>FP_PH_23</b>	<b>ELEQUA: Solar-Powered Intelligent Water Quality Monitoring System Equipped with Desalination and Electrolysis for Potable Water Treatment</b>	<b>Vinzons Pilot High School</b>	<b>PHILIPPINES</b>
		<b>FP_PH_111</b>	<b>SIMOY: Solar Integrated Machine for Oryza sativa (Rice Grains) Dryer</b>	<b>Quezon City Science High School</b>	<b>PHILIPPINES</b>
<b>3</b>	<b>SILVER - Special Award for Commercial Potential</b>	<b>FP_PH_13</b>	<b>ALIGUE: Effect of Dried Red Algae Seaweeds (Kappaphycus alvarezii) Mixed with Fish Meal on the Growth and Survival Rates and Biochemical Composition of Mud Crab (Scylla serrata)</b>	<b>Vinzons Pilot High School</b>	<b>PHILIPPINES</b>
		<b>FP_PH_06</b>	<b>TELESFEED: Innovative Feeding Solution for the Growth of iBEST</b>	<b>Licerio Antiporda Sr. National High School</b>	<b>PHILIPPINES</b>

			(Improved Brackishwater Enhanced Selected Tilapia)		
		FP_PH_113	AKBAY: Raspberry Pi-Based Auditory Assistant Helping Visually Impaired People Traverse Safely Using YOLOv5	Quezon City Science High School	PHILIPPINES
		FP_PH_09	POXIFIER: An Assistive Medical Screening Device for Selected Skin Diseases Using Machine Learning Ensemble	Bansud National High School	PHILIPPINES
4	SILVER - Special Award for the Application of STEM Concepts	FP_PH_01	Protein-based Polysaccharide from Chiton Schleritome Girdles of Acanthopleura gemmata (Northern Spined Chiton) and Its Potential Novel Application as Biocompatible Hydrogel-based Tissue Scaffolds Embedded With ZnONPs Tested Under In Ovo Duck Chorioallantoic Membrane Assay	Bansud National High School	PHILIPPINES
		FP_TH_04	BagaPure AquaTech	Satit demonstration school of Khon Kaen university	THAILAND
		ON_ID_01	CETAFILT: Development of Microplastic Filters Inspired by the Behavior of Baleen Whales (Mysticetes)	State High School 8 Yogyakarta	INDONESIA
		FP_PH_02	Bacterial Growth Inhibition of Oreochromis sp. (Red Tilapia) Skin Mucus/Zinc Oxide	Bansud National High School	PHILIPPINES

			<b>Nanoparticles (RTSM/ZnONPs) Solution Against Selected Bacterial Pathogens</b>		
<b>5</b>	<b>SILVER - Special Award for Creativity/Innovation</b>	<b>FP_PH_04</b>	<b>Potential Pharmacological Application of Achatina fulica (Giant African Land Snail) Hemolymph Tested via Daphnia Magna Myogenic Heart as Model for Cardiovascular Performance Measurement Addressing Tachycardia</b>	<b>Bansud National High School</b>	<b>PHILIPPINES</b>
		<b>FP_PH_46</b>	<b>The Health-O-Matic: PET Repurposing as Filament and Thread Innovation</b>	<b>Naguilian National High School</b>	<b>PHILIPPINES</b>
		<b>FP_PH_29</b>	<b>Dermotect: An Assistive Dermoscopy Screening Device for Early Detection of Selected Cancerous Skin Diseases and Their Severity using Machine Learning Ensemble</b>	<b>Bansud National High School</b>	<b>PHILIPPINES</b>
		<b>FP_PH_16</b>	<b>Agro-Uino: Development and Implementation of Autonomous Arduino Based Drone for Precision Watering and Planting</b>	<b>Vinzons Pilot High School</b>	<b>PHILIPPINES</b>
<b>6</b>	<b>SILVER - Outstanding Award for Project Report</b>	<b>FP_PH_46</b>	<b>The Health-O-Matic: PET Repurposing as Filament and Thread Innovation</b>	<b>Naguilian National High School</b>	<b>PHILIPPINES</b>
		<b>FP_MY_39</b>	<b>THE COMBINATION OF NATURAL ELEMENTS, PANDAN LEAVES AND POTATO SKINS</b>	<b>SMK PERMATANG PASIR</b>	<b>MALAYSIA</b>

			<b>AS LARACIDE AGENTS.</b>		
		<b>FP_PH_59</b>	<b>Development and Characterization of Reinforced Composite Assembly of Cathode and Anode Materials Derived from Musa textilis (Abaca) Fibers and Carbonized Perna viridis (Green Mussel) Shells for Optimizing Energy Electrode Performance</b>	<b>Bansud National High School</b>	<b>PHILIPPINES</b>
		<b>FP_PH_28</b>	<b>BM SENTINEL: A SOLAR POWERED MARINE BUOY FOR MICROPLASTICS DETECTION AND COLLECTION</b>	<b>Bansud National High School</b>	<b>PHILIPPINES</b>
<b>7</b>	<b>SILVER - Outstanding Award for Presentation</b>	<b>FP_PH_63</b>	<b>EYE-RIN: UTILIZATION OF DEEP LEARNING ALGORITHMS FOR REAL-TIME CAMERA RECOGNITION OF PERSONS WITH ZONOTIC DISEASE THROUGH EYE IMAGES</b>	<b>Naga City Science High School</b>	<b>PHILIPPINES</b>
		<b>FP_MY_28</b>	<b>AI Aquaponics System</b>	<b>SMJK Perempuan China Pulau Pinang</b>	<b>MALAYSIA</b>
		<b>FP_MY_43</b>	<b>Smilescope: The development of dental health and hygiene</b>	<b>SMK Infant Jesus Convent</b>	<b>MALAYSIA</b>
		<b>FP_ID_11</b>	<b>INNOVATION'S PRODUCT (MORISTEVI JELL) MADE FROM MORINGA LEAVES, STEVIA LEAVES AND SEAWED AS AN EFFORT TO PREVENT ANEMIA AND CREATE</b>	<b>SMA NEGERI 1 SITUBONDO</b>	<b>INDONESIA</b>

			YOUNG ENTREPRENEURS		
8	SILVER - Outstanding Award for Project Exhibit	ON_ID_02	WHYCONS (Water Hyacinth and Coconut Fibers Nanofiltration-Straw): Manufacturing Activated Carbon-Based from Coconut Fiber and Water Hyacinth to Overcome Iron Contamination in Household Water	SMA Semesta Semarang	INDONESIA
		FP_PH_68	Solar Powered & IoT-Based Hydro Management System (SIBOC)	Benguet National High School	PHILIPPINES
		FP_PH_118	CHARACTERIZATION OF CORN FLAKES INCORPORATED WITH MORINGA (Moringa oleifera) AND JAMAICAN CHERRY (Muntingia calabura)	University of the Philippines High School in Iloilo	PHILIPPINES
		FP_MY_21	"ECRIAN-POT (AN ECO-FRIENDLY PLANTING POT) REPRESENTING A GROUNDBREAKING INITIATIVE IN STEM DEDICATED TO FOSTERING SUSTAINABILITY FOR BOTH THE ENVIRONMENT AND HUMANITY"	SEKOLAH MENENGAH SAINS SULTAN MOHAMAD JIWA	MALAYSIA
<b>BRONZE MEDALIST (5 TEAMS PER CATEGORY)</b>					
1	BRONZE - Special Award for Benefit(s) to the Community	ON_TH_01	Innovative Cat Litter	Kaennakhon Witthayalai School	THAILAND
		FP_PH_09	POXIFIER: An Assistive Medical Screening Device for Selected Skin Diseases Using Machine Learning Ensemble	Bansud National High School	PHILIPPINES

		FP_ID_11	INNOVATION'S PRODUCT (MORISTEVI JELL) MADE FROM MORINGA LEAVES, STEVIA LEAVES AND SEAWEED AS AN EFFORT TO PREVENT ANEMIA AND CREATE YOUNG ENTREPRENEURS	SMA NEGERI 1 SITUBONDO	INDONESIA
		FP_PH_104	BATUHARA: Biomimetic Adsorption Competence of Tilapia Fish Scale Wastes from Its Utilized Hydroxyapatite (HA) in the Removal of Micron-sized Polystyrene Particles (Mps) and Ionic Pollutants in Ex situ Simulated Ocean Currents via Re-usable Sponge and Magnetite Application Material	Bansud National High School	PHILIPPINES
		FP_PH_118	Characterization of Corn Flakes Incorporated with Moringa (Moringa Oleifera) and Jamaican Cherry (Muntingia Calabura)	University of the Philippines High School in Iloilo	PHILIPPINES
2	BRONZE - Special Award for Educational Contribution	FP_MY_09	Hydrosave	SMK Chung Hua(CF) Sarawak.	MALAYSIA
		FP_PH_60	AquAlert: An IoT-based Water Quality Monitoring System with GPS Integration	Goa Science High School	PHILIPPINES
		FP_PH_63	EYE-RIN: Utilization of Deep Learning Algorithms for Real-Time Camera	Naga City Science High School	PHILIPPINES



			Recognition of Persons with Zoonotic Disease Through Eye Images		
		FP_PH_02	Bacterial Growth Inhibition of <i>Oreochromis</i> sp. (Red Tilapia) Skin Mucus/Zinc Oxide Nanoparticles (RTSM/ZnONPs) Solution Against Selected Bacterial Pathogens	Bansud National High School	PHILIPPINES
		FP_PH_19	“Phytochemical Analysis and In-Vitro Urolithiatic Activity of <i>Philodendron Hederaceum</i> Leaves”	Vinzons Pilot High School	PHILIPPINES
3	BRONZE - Special Award for Commercial Potential	FP_ID_08	Device to Monitor Degree of Acidity Level	Amalina Islamic Junior High School	INDONESIA
		FP_PH_01	Protein-based Polysaccharide from <i>Chiton Schleritome</i> Girdles of <i>Acanthopleura gemmata</i> (Northern Spined Chiton) and Its Potential Novel Application as Biocompatible Hydrogel-based Tissue Scaffolds Embedded With ZnONPs Tested Under In Ovo Duck Chorioallantoic Membrane Assay	Bansud National High School	PHILIPPINES
		FP_MY_03	<i>Artemisia vulgaris</i> : An Alternative Relief for Skin Inflammation and Irritation	SMK MARUDI, SARAWAK	MALAYSIA
		FP_TH_06	Bio M Capsule (BMC)	Thasalaprasitsuksa school is located in Thasala District	THAILAND

		FP_MY_32	Mahkota Dewa Agro Farming Repellent Agent (MDAFRA )	SMK DATUK HAJI AHMAD BADAWI, PENANG	MALAYSIA
4	BRONZE - Special Award for the Application of STEM Concepts	FP_PH_06	TELESFEED: Innovative Feeding Solution for the Growth of iBEST (Improved Brackishwater Enhanced Selected Tilapia)	Licerio Antiporda Sr. National High School	PHILLIPINES
		FP_PH_05	In Vitro Investigation of Isolated Bromelain from Pineapple (Ananas comosus) Peel Extract as a Potential Melanogenesis Inhibitor	Vinzons Pilot High School	PHILLIPINES
		FP_PH_60	AquAlert: An IoT-based Water Quality Monitoring System with GPS Integration	Goa Science High School	PHILLIPINES
		FP_ID_08	Device to Monitor Degree of Acidity Level	Amalina Islamic Junior High School	INDONESIA
		FP_PH_102	MoniGrove: A Web-Based Mangrove Monitoring Application	Philippine Science High School CALABARZON Region Campus	PHILLIPINES
5	BRONZE - Special Award for Creativity/Innovation	FP_MY_43	SmileScope: The development of dental health and hygiene	SMK Infant Jesus Convent JB	MALAYSIA
		FP_PH_01	Protein-based Polysaccharide from Chiton Schleritome Girdles of Acanthopleura gemmata (Northern Spined Chiton) and Its Potential Novel Application as Biocompatible Hydrogel-based Tissue Scaffolds Embedded With ZnONPs Tested	Bansud National High School	PHILIPPINES

			<b>Under In Ovo Duck Chorioallantoic Membrane Assay</b>		
		<b>FP_PH_06</b>	<b>TELESFEED: Innovative Feeding Solution for the Growth of iBEST (Improved Brackishwater Enhanced Selected Tilapia)</b>	<b>Licerio Antiporda Sr. National High School</b>	<b>PHILIPPINES</b>
		<b>FP_PH_118</b>	<b>Characterization of Corn Flakes Incorporated with Moringa (Moringa Oleifera) and Jamaican Cherry (Muntingia Calabura)</b>	<b>University of the Philippines High School in Iloilo</b>	<b>PHILIPPINES</b>
		<b>FP_ID_14</b>	<b>Use of Allium Cepa L. Cortex Waste to Reduce Skin Health Problems</b>	<b>SMK IBRAHIMY 1 SUKOREJO</b>	<b>INDONESIA</b>
<b>6</b>	<b>BRONZE - Outstanding Award for Project Report</b>	<b>FP_MY_04</b>	<b>The Awakening of the Ancient Photosynthetic Prokaryote: Exploring the Potential of Cyanobacteria in Carbon Fixation for Sustainable Power and Industry</b>	<b>Beaconhouse Sri Murni Private National School, Selangor</b>	<b>MALAYSIA</b>
		<b>FP_PH_11</b>	<b>"Arduino-Based Smart Agricultural System Approach for Aflatoxin Reduction Utilizing Hydrogen Peroxide as an Oxidizing Agent"</b>	<b>Vinzons Pilot High School</b>	<b>PHILLIPINES</b>
		<b>FP_TH_06</b>	<b>Bio M Capsule (BMC)</b>	<b>Thasalaprasitsuksa School</b>	<b>THAILAND</b>
		<b>FP_PH_23</b>	<b>ELEQUA: Solar-Powered Intelligent Water Quality Monitoring System Equipped with Desalination and Electrolysis for</b>	<b>Vinzons Pilot High School</b>	<b>PHILIPPINES</b>

			Potable Water Treatment		
		FP_PH_47	"AQUARIUS: AUV-Enabled Quest for Underwater Analysis and Recognition of Intrinsic Substance"	Camarines Sur National High School	PHILIPPINES
7	BRONZE - Outstanding Award for Presentation	FP_PH_109	Evaluating Tullahan River's Water Quality: Exploring Physicochemical Characteristics and the Presence of Escherichia coli (E. coli)	Ateneo de Manila Senior High School	PHILIPPINES
		FP_PH_09	POXIFIER: An Assistive Medical Screening Device for Selected Skin Diseases Using Machine Learning Ensemble	Bansud National High School	PHILIPPINES
		FP_ID_10	POTENTIAL OF FERMENTED PINEAPPLE STUMP AND PEEL AS A BROMELAIN-BASED ENZYMATIC DEBRIDEMENT AGENT FOR DIABETIC ULCERS AND DECUBITUS ULCERS	SMK Negeri 1 Kendit	INDONESIA
		FP_PH_29	Dermotect: An Assistive Dermoscopy Screening Device for Early Detection of Selected Cancerous Skin Diseases and Their Severity using Machine Learning Ensemble	Bansud National High School	PHILIPPINES
		FP_PH_102	MoniGrove: A Web-Based Mangrove Monitoring Application	Philippine Science High School CALABARZON Region Campus	PHILIPPINES
8		ON_TH_01	Innovative Cat Litter	Kaennakhon Witthayalai School	THAILAND

<b>BRONZE - Outstanding Award for Project Exhibit</b>	<b>FP_PH_102</b>	<b>MoniGrove: A Web-Based Mangrove Monitoring Application</b>	<b>Philippine Science High School CALABARZON Region Campus</b>	<b>PHILIPPINES</b>
	<b>FP_PH_04</b>	<b>Potential Pharmacological Application of Achatina fulica (Giant African Land Snail) Hemolymph Tested via Daphnia Magna Myogenic Heart as Model for Cardiovascular Performance Measurement Addressing Tachycardia</b>	<b>Bansud National High School</b>	<b>PHILIPPINES</b>
	<b>FP_TH_05</b>	<b>Bio cycle</b>	<b>Thasalaprasitsuksa school is located in Thasala District</b>	<b>THAILAND</b>
	<b>FP_MY_20</b>	<b>MIZZTRAW</b>	<b>SM SAINS KEPALA BATAS PENANG</b>	<b>MALAYSIA</b>