



Republic of the Philippines  
**Department of Education**  
 REGION I



**REGIONAL MEMORANDUM**

No. 1672 s. 2024

**WINNERS OF THE 2024 REGIONAL SCIENCE AND TECHNOLOGY FAIR (RSTF)**

To: Schools Division Superintendents

1. The Department of Education Regional Office 1 (DepEd RO1) through the Curriculum and Learning Management Division (CLMD) extends its warmest congratulations to the following winners of the 2024 Regional Science and Technology Fair (RSTF) last December 6-7, 2024 at the National Educators Academy of the Philippines –Region 1 (NEAP-R1), San Vicente, City of San Fernando, La Union:

**a.) Life Science -Individual**

Rank	Title of Investigatory Project	Student-Researcher/s and Coach	School / SDO
1st	AZOLUSE: A Nano-Enhanced Biostimulant Using Fermented Mosquito Fern ( <i>Azolla pinnata</i> ), And Saba Peel Nanocellulose ( <i>Musa acuminata x balbisiana L</i> ) For Enhancing The Crop Resilience of Onion ( <i>Allium cepa L</i> ) In Clay Soil Under Waterlogged And Salinity Stress	Adrian Q. Azada Coach: Leonard Levi Suguitan	Regional Science HS for Region 1 La Union
2nd	ALGASCALES: Plantable Nanowhisker Chitin Bioplastic From Milkfish ( <i>Chanos chanos</i> ) Scales and Silk Algae ( <i>Spirogyra</i> )	Gwyneth Wyonna Lledo Coach: Sheryle V. Hilario / Ma. Theresa Mylene C. Matias	Solsona NHS, Ilocos Norte
3rd	Anti-hyperphosphatemia Property of Onion ( <i>Allium cepa</i> ) peels and Corn ( <i>Zea mays</i> ) Leaves as an Effervescent Tablet	Ferdinand N Natividad Jr. Coach: Rosita P. Romero	Alaminos City NHS, Alaminos City
4th	Light It Up: Portable UV-Based Disinfection Tumbler in Minimizing Coliform ( <i>E. coli</i> ) Count in Drinkable Water	Adrian Ceasar B. Alconis Coach: Jefferson R. Ganaban	Ilocos Sur NHS Vigan City
5th	TEMPEase: Antihyperthermic Property of Ipil-ipil ( <i>Leucaena leucocephala L.</i> ) Seeds and Cogon ( <i>Imperata cylindrica Lam.</i> ) Roots as Forehead Treatment Patch	Maychell Vivienne R. Camba Coach: Rosita P. Romero	Alaminos City NHS, Alaminos City

**\*Best Display Poster -Life Science -Individual**

Rank	Title of Investigatory Project	Student-Researcher/s and Coach	School / SDO
1st	TEMPEase: Antihyperthermic Property of Ipil-ipil ( <i>Leucaena leucocephala</i> L.) Seeds and Cogon ( <i>Imperata cylindrica</i> Lam.) Roots as Forehead Treatment Patch	Maychell Viviene R. Camba Coach: Rosita P. Romero	Alaminos City NHS, Alaminos City

**\*Best Presenter -Life Science -Individual**

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1st	AZOLUSE: A Nano-Enhanced Biostimulant Using Fermented Mosquito Fern ( <i>Azolla pinnata</i> ), And Saba Peel Nanocellulose ( <i>Musa acuminata x balbisiana</i> L) For Enhancing The Crop Resilience of Onion ( <i>Allium cepa</i> L) In Clay Soil Under Waterlogged And Salinity Stress	Adrian Q. Azada Coach: Leonard Levi Suguitan	Regional Science HS for Region 1 La Union

**b.) Life Science -Team**

Rank	Title of Investigatory Project	Student-Researcher/s and Coach	School / SDO
1st	In Vitro Detection Of IHNV And WSSV In Selected Mudcrab Species As Bio-Index Of Water Quality In Estuary Environment	Gianne Carla P. Dizon Faith Gabriel S. Costales Christine Mae D. Gamalinda Coach: Arturo Blanco	San Fabian NHS, Pangasinan 2
2nd	Kangkong ( <i>Ipomoea aquatica</i> ) and Kulitis ( <i>Amaranthus spinosus</i> ) Leaves Extract As Supplement Tablet for Sideropenia	Danielle Ann B. Balboa Alva Venice C. Orteza Maycelpia DG. Bautista Coach: Rosita P. Romero	Alaminos City NHS, Alaminos City
3rd	Ant-coagulant Activity of Ar-rosep ( <i>Caulerpa lentillifera</i> ) Extract In Human Blood: An In-Vitro Analysis	Yohj Owen M. Cagaoan Aerielle Gaea D. Oclay Coach: Ronnie M. Absalon, Jr.	Pangasinan NHS, Pangasinan 1
4th	Phytoremediation of Lead Tetroxide and Dyes From Water Using Oregano ( <i>Origanum vulgare</i> ) and Water Pennywort ( <i>Hydrocotyle umbellata</i> ) Through Rhizofiltration	Ma. Eloisa B. Peralta John Arvin F. Datuin Irish Mae Dianne D. Cabuang Coach: Kim S. Eustaquio	Turac NHS, San Carlos City

5 <sup>th</sup>	Physicochemical Analysis Of Agronomic Waste Microbial Fuel Cell	Shekinah Joy A. Vilorio Samantha Vhiel M. Vicente Richelle P. Rayray Coach: Sheryle V. Hilario	Solsona NHS, Ilocos Norte
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**\*Best Display Poster -Life Science -Team**

Rank	Title of Investigatory Project	Student-Researcher/s and Coach	School / SDO
1st	Kangkong (Ipomoea aquatica) and Kulitis (Amaranthus spinosus) Leaves Extract As Supplement Tablet for Sideropenia	Danielle Ann B. Balboa Alva Venice C. Orteza Maycelpia DG. Bautista Coach: Rosita P. Romero	Alaminos City NHS, Alaminos City

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**c.) Physical Science-Individual**

Rank	Title of Investigatory Project	Student-Researcher/s and Coach	School / SDO
1st	Potenciality of Piezoelectric Energy Power Generator from Mechanical Energy of Moving Vehicles as Alternative Power Source	Ashley Anne J. Fortich Coach: Phaula Louise D. Catura	Ilocos Sur NHS, Vigan City
2nd	StoPPSC: Storage-based Purification System: Using Peat Moss (Sphagnum) Leaves and Cogon ( Imperata cylindrica) Grass with UV Light Capabilities	Mark Kenneth O. Baniqued Coach: Rosita P. Romero	Alaminos City NHS, Alaminos City
3rd	Green Synthesis Optimization of Magnesium Oxide (MgO) Nanoparticles Using Onion (Allium cepa) Peel through Stirring Temperatures for Potential Biodiesel Production	Ryanna Maricka M. Ballesteros Coach: Marc Angelbert B. Dulay	Tayug NHS, Pangasinan 2
4th	Banana (Musa) Stem and Madre de Agua (Trichanthera	Jay Marynette Sophine L. Reyes	Solsona NHS, Ilocos Norte

	gingantea) leaves for Feed Gap Remediation in Chickens	Coach: Sheryle V. Hilario	
5 <sup>th</sup>	BANANA: (Musa acuminata x balbisiana) Bark and Ipil-Ipil (Leucaena leucocephala) Fruit Vermitea for Neutralizing Soil pH	Kaylie Belle Imperial Coach: Laarni M. Ewitan	Candon NHS, Candon City

**\*Best Display Poster -Physical Science -Individual**

Rank	Title of Investigatory Project	Student-Researcher/s and Coach	School / SDO
1st	StoPPSC: Storage-based Purification System: Using Peat Moss (Sphagnum) Leaves and Cogon ( Imperata cylindrica) Grass with UV Light Capabilities	Mark Kenneth O. Baniqued Coach: Rosita P. Romero	Alaminos City NHS, Alaminos City

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**d.) Physical Science-Team**

Rank	Title of Investigatory Project	Student-Researcher/s and Coach	School / SDO
1st	ReefVive: Improvised Coral Substrates out of Clam (Cerastoderma glaucum) and Oyster (Crassostrea iredalei) Crushed Shells for Reef Rehabilitation	Ryan Kenneth R. Anievas Roselle T. Estabillo Jiro Arnel T. Madamba Coach: Rosita P. Romero	Alaminos City NHS, Alaminos City
2 <sup>nd</sup>	DAGA: Digital Automated Geotechnical Analyzer	Ritz Jhaycelle Coach: Jayson Adena	San Nicolas NHS, Ilocos Norte
3 <sup>rd</sup>	Exploring the Potential of Saba Peel (Musa acuminata – balbisiana L) Nanocellulose-Supported Catalyst in Darak Oil (Oryza sativa) Transesterification for Enhancing Biodiesel Yield, Combustion, and Cold Flow Properties	Adrian Q. Azada Lance Andrei M. Madrid Keisha Nicole P. Reodique Coach: Anna Mae T. Valdez	Regional Science HS for Region 1, La Union
4 <sup>th</sup>	Biomimetic Applications of Coconut (Cocos nucifera) Fibers Through Mangrove Root-	Mary Keziah Monessa G. Basal	Bayambang NHS, Pangasinan 1

	Inspired Filtration cleaning systems for Microplastics in Bangus (Chanos chanos) Fish Ponds	Jewel Monique R. Flamengco, Daniel C. Boagas Coach: Sean C. Perez	
5 <sup>th</sup>	Investigating the Feasibility of Barnyard Grass (Echinochloa crus-galli L.) Seeds and Flowers as Bioethanol Feedstock	Xyriel Phoebe M. Almajano Hayley T. Caoile Amira P. Godinez Coach: Melanie B. Chua	Cipriano P. Primicias NHS, Pangasinan 2

**\*Best Display Poster -Physical Science -Team**

Rank	Title of Investigatory Project	Student-Researcher/s and Coach	School / SDO
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**e.) Robotics & Intelligent Machines -Individual**

Rank	Title of Investigatory Project	Student-Researcher/s and Coach	School / SDO
1st	ECOSENSE: Arduino-Based Escherichia coli Detector in Water System	Charlson B. Lacasandile Coach: Rowel P. Lucina	Regional Science HS for Region 1, La Union
2 <sup>nd</sup>	AquaFeed: A Portable Automatic Fish Feeder Prototype in Improving Bangus Production	Jian Adams P. Aquino Coach: Francisco C. Dacoco	Dagupan City NHS Dagupan City
3 <sup>rd</sup>	WaDSaP: Arduino-Based Integrated System for Solar-Powered Water Desalination and Salt Production	JD Reyman M. Reynaldo Coach: Kris Christopher C. Dela Cruz	Alaminos City NHS, Alaminos City
4 <sup>th</sup>	Solair: Dual-powered system for nutrient film technique farming	Thamara S. Balino Coach: Vishia A. Gantala	Sarrat NHS, Ilocos Norte

5 <sup>th</sup>	i-ACWA: IoT-Based Automated Centralized Water-System	Kirk Steven P. Gabuat Coach: Junel L. Corpuz	Ilocos Norte NHS, Laoag City
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Rank	Title of Investigatory Project	Student- Researcher/s and Coach	School / SDO
1st	WaDSaP: Arduino-Based Integrated System for Solar-Powered Water Desalination and Salt Production	JD Reyman M. Reynaldo Coach: Kris Christopher C. Dela Cruz	Alaminos City NHS, Alaminos City

**\*Best Presenter - Robotics & Intelligent Machines -Individual**

Rank	Title of Investigatory Project	Student- Researcher/s and Coach	School / SDO
1st	AquaFeed: A Portable Automatic Fish Feeder Prototype in Improving Bangus Production	Jian Adams P. Aquino Coach: Francisco C. Dacoco	Dagupan City NHS Dagupan City

**f.) Robotics & Intelligent Machines -Team**

Rank	Title of Investigatory Project	Student- Researcher/s and Coach	School / SDO
1st	EDAD: Early Diagnosis of Alzheimer's Disease Utilizing Low-Cost Plasma Peptide Extraction, Atmospheric Pressure Mass Spectrometer, and Support Vector Machine-based classification of Amyloid-beta Species	Charly David T. Manuel Rey Alfred S. Quiam Klein Gunneries R. Bubos Coach: Kris Christopher C. Dela Cruz	Alaminos City NHS, Alaminos City
2 <sup>nd</sup>	WISIK: Automatic wildfire alert and mitigation system via sensor array, water sprinkler, and rain-catching reservoir	Mark Jarcnel S. Bandong Jzea Ysl G. Caronongan Ramel T. Tungpalan Coach: Ronnie M. Absalon Jr.	Pangasinan NHS, Pangasinan 1
3 <sup>rd</sup>	SANIW: Smart Agriculture Network and Innovative Workflow utilizing Raspberry Pi, Machine Learning ang IoT	Romar Ian A. Espino Tyron Jay R. Herrera Braeden Euzielle M. Pangilinan Coach: Kniethel R. Rabara	Ilocos Sur NHS, Vigan City
4 <sup>th</sup>	Robotics-Integrated Biocomposting Systems (RIBS)	Kate Charisse D. Antonio Marcus Jardine M. Hilario Ralph Matthew G. Jacinto Coach: Shiela C. Saguid	Ilocos Norte NHS, Laoag City



5 <sup>th</sup>	Plastic to Power: Developing and Implementing PlastiCharge – A solar-powered Charging Station Activated by Plastic Bottle Disposal	Charlene Jemimah D. Ato Summer Chelsea O. Gomez Lean Kean Ivy P. Ordoña Coach: Rogelio M. Estrada Jr.	Manaoag NHS, Pangasinan 2
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Rank	Title of Investigatory Project	Student-Researcher/s and Coach	School / SDO
1st	Robotics-Integrated Biocomposting Systems (RIBS)	Kate Charisse D. Antonio Marcus Jardine M. Hilario Ralph Matthew G. Jacinto Coach: Shiela C. Saguid	Ilocos Norte NHS, Laoag City

**\*Best Presenter - Robotics & Intelligent Machines -Team**

Rank	Title of Investigatory Project	Student-Researcher/s and Coach	School / SDO
1st	WISIK: Automatic wildfire alert and mitigation system via sensor array, water sprinkler, and rain-catching reservoir	Mark Jarcnel S. Bandong Jzea Ysl G. Caronongan Ramel T. Tungpalan Coach: Ronnie M. Absalon Jr.	Pangasinan NHS, Pangasinan 1

**g.) Science Innovation Expo -Individual**

Rank	Title of Investigatory Project	Student-Researcher/s and Coach	School / SDO
1st	BIOBRIGHTQUETTE: Torrefied Coco Lumber Sawdust and Bamboo Shaving Briquettes using Cassava (Manihot esculenta) Starch as Binder	Janela Mhel M. Sabado Coach: Mark Angelbert B. Dulay	Tayug NHS, Pangasinan 2
2 <sup>nd</sup>	AIDE: Automated Impact Detector and Location Estimator with IOT Capabilities	Aira Joella Ysabel O. Orilla Coach: Kris Christopher C. Dela Cruz	Alaminos City NHS, Alaminos City
3 <sup>rd</sup>	EuMoSys: Eutrophication Monitoring System for Bangus Aquaculture	Carl Anthony O. Gameng Coach: Kris Christopher C. Dela Cruz	Alaminos City NHS, Alaminos City

4 <sup>th</sup>	Project AIM: Solar-Powered Automated Irrigation Machine for Maximized Water Efficiency	Albert Josh N. Samson Coach: Amador F. Du Jr.	Labrador NHS, Pangasinan 1
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**\*Best Presenter - Science Innovation Expo -Individual**

Rank	Title of Investigatory Project	Student-Researcher/s and Coach	School / SDO
1st	BIOBRIGHTQUETTE: Torrefied Coco Lumber Sawdust and Bamboo Shaving Briquettes using Cassava (Manihot esculenta) Starch as Binder	Janela Mhel M. Sabado Coach: Mark Angelbert B. Dulay	Tayug NHS, Pangasinan 2

**h.) Science Innovation Expo -Team**

Rank	Title of Investigatory Project	Student-Researcher/s and Coach	School / SDO
1st	BAGAS: Breakthrough Agri-tech for Green and Advanced Solar Powered Hydroponic Rice Germination System	Leona Carmela B. Valdez, Owen Kyle B. Amigo, and Ma. Jasmine Gabrielle Q. Santos Coach: Preciousa F. Ramos	Ilocos Norte NHS, Laoag City
2 <sup>nd</sup>	Food Waste Tank Digester with Digital Manometer and Automated Agitator in Making Biogas for Sustainable Cooking	Denille P. Piencenaves Leobert Aaron J. Miranda Gabrielle Essex Shawn L. Vergara Coach: Jayson A. Adena	San Nicolas NHS, Ilocos Norte
3 <sup>rd</sup>	RiSecTrap: Rice Insect Attractor and Trapper	Danille Joy A. Duque Mhiscy Ivelle R. Camba, Jescelie C. Estrada Coach: Kris Christopher C. Dela Cruz	Alaminos City NHS, Alaminos City



4 <sup>th</sup>	Aquacleanse : A Solar-Powered Automatic Water Purifying Device	Arrienne Mae C. Arguelles Aldrey B. De Vera and Rinoa Kierstyn N. Radovan Coach: Darryl O. Calimlim	Dagupan City NHS, Dagupan City
5 <sup>th</sup>	Infra-Spect: Infrared Spectroscopy for Auduino-Based Microplastic Presence Monitoring System	Aidylrem Grace O. Ravarra Angel Ruth Abish G. Ramos and Gabriel B. Yanguas Coach: Kris Christopher C. Dela Cruz	Alaminos City NHS, Alaminos City

**\*Best Display Poster - Science Innovation Expo -Team**

Rank	Title of Investigatory Project	Student-Researcher/s and Coach	School / SDO
1st	BAGAS: Breakthrough Agri-tech for Green and Advanced Solar Powered Hydroponic Rice Germination System	Leona Carmela B. Valdez, Owen Kyle B. Amigo, and Ma. Jasmine Gabrielle Q. Santos Coach: Preciousa F. Ramos	Ilocos Norte NHS, Laoag City

**\*Best Presenter - Science Innovation Expo -Team**

Rank	Title of Investigatory Project	Student-Researcher/s and Coach	School / SDO
1st	BAGAS: Breakthrough Agri-tech for Green and Advanced Solar Powered Hydroponic Rice Germination System	Leona Carmela B. Valdez, Owen Kyle B. Amigo, and Ma. Jasmine Gabrielle Q. Santos Coach: Preciousa F. Ramos	Ilocos Norte NHS, Laoag City

**i.) Mathematics & Computational Sciences -Individual**

Rank	Title of Investigatory Project	Student-Researcher/s and Coach	School / SDO
1st	Investigating Faulhaber's Formula Deriving the Formula for the First Eight Power-Sums of any Arithmetic	Jian Daniel B. Rariza Coach: Lordiane L. Camba	Alaminos City NHS, Alaminos City
2 <sup>nd</sup>	A mathematical Investigation on the Differences of Two Numbers Raised to 4 <sup>th</sup> Power	Jhazel Mae M. Palino Coach: Richard F. De Vera	Mangaldan NHS, Pangasinan 2

3 <sup>rd</sup>	Area Summation in Fibonacci Spiral's Inscribed Quarter Circle and It's Excess, Isosceles Triangle, and Segment	Maverick Sebastien A. Sarthou Coach: Maria Veronica Ballesteros	Pangasinan NHS, Pangasinan 1
4 <sup>th</sup>	Chaining Polygons: A Mathematical Investigation	Glynicka Joyce N. Garcia Coach: Elizabeth D. Ramos	La Union NHS, San Fernando City
5 <sup>th</sup>	Mastering Sequential Cube Substraction	Miguel Quirino O. Siador Coach: Mariel M. Meneses	Mangaldan NHS, Pangasinan 2

**\*Best Display Poster -Mathematics & Computational Sciences -Individual**

Rank	Title of Investigatory Project	Student-Researcher/s and Coach	School / SDO
1st	A mathematical Investigation on the Differences of Two Numbers Raised to 4 <sup>th</sup> Power	Jhazel Mae M. Palino Coach: Richard F. De Vera	Mangaldan NHS, Pangasinan 2

**\*Best Presenter - Mathematics & Computational Sciences -Individual**

Rank	Title of Investigatory Project	Student-Researcher/s and Coach	School / SDO
1st	Investigating Faulhaber's Formula Deriving the Formula for the First Eight Power-Sums of any Arithmetic	Jian Daniel B. Rariza Coach: Lordiane L. Camba	Alaminos City NHS, Alaminos City

**j.) Mathematics & Computational Sciences -Team**

Rank	Title of Investigatory Project	Student-Researcher/s and Coach	School / SDO
1st	Palindromic Pattern formed by the Quotient of the Sum of All Values formed by Paired Non-Negative Integers and the Sum of these Integers	Ian Chris L. Semillano Peter John N. Haboc Stephanie L. Semillano Coach: Imelda N. Canumay	Regional Science HS for Region 1, La Union
2 <sup>nd</sup>	Quantum Quests: Investigating Recursive Growth of 2D and 3D Tesellations	Alexander Julian S. Serafica, Jhero R. Cuison, Ferry Jhoerenz D. Villanueva Coach: Roque A. Paican	Mapandan NHS, Pangasinan 1
3 <sup>rd</sup>	A Mathematical Approach In determining the Day of the Week of any given Date	Kenith Rose B. Nacino Reign Andrei M. Petilla Clouie Mae M. Delos Reyes	Mangaldan NHS, Pangasinan 2

		Coach: Richard F. De Vera	
4 <sup>th</sup>	Knotting Points: Exploring Patterns in Point Lattice Structures	Ivy Anne C. Fajardo Wyne Ezekiel D. Mendoza Jeremeigh Kyle R. Robianes	La Union NHS, San Fernando City
5 <sup>th</sup>	Mathematical Modelling of Hemolytic Effects: Predicting Condiment-Induced Hemolysis on Sheep Blood Agar	Anjoe Sistoza, Glohnnie Angelica Yabes, Megan Solis Coach: Nina May Arrocena	Sinait NHS, Ilocos Sur

**\*Best Display Poster - Mathematics & Computational Sciences -Team**

Rank	Title of Investigatory Project	Student-Researcher/s and Coach	School / SDO
1st	A Mathematical Approach In determining the Day of the Week of any given Date	Kenith Rose B. Nacino Reign Andrei M. Petilla Clouie Mae M. Delos Reyes Coach: Richard F. De Vera	Mangaldan NHS, Pangasinan 2

**\*Best Presenter - Mathematics & Computational Sciences -Team**

Rank	Title of Investigatory Project	Student-Researcher/s and Coach	School / SDO
1st	Palindromic Pattern formed by the Quotient of the Sum of All Values formed by Paired Non-Negative Integers and the Sum of these Integers	Ian Chris L. Semillano Peter John N. Haboc Stephanie L. Semillano Coach: Imelda N. Canumay	Regional Science HS for Region 1, La Union

2. First place investigatory projects in all the ten contested categories shall become the entries of Region I for the National Scientific Review Committee (NSRC) Evaluation/ Screening of the 2024-2025 National Science and Technology Fair. The deadline of submission of writeups (both softcopies and hardcopies) shall be on December 20, 2024 at the Bureau of Curriculum Development (BCD), DepEd Central Office, Pasig City.

3. For information and dissemination.

For the Regional Director:

**RHODA T. RAZON**

Director III

Encl.: None

References: RM 1519, s. 2024, and RM 1644, s. 2024

To be indicated in the Perpetual Index

Under the following subjects:

SCIENCE  
WINNERS OF RSTF

MATHEMATICS  
ROBOTICS

INNOVATIONS

CLMD/jdcjr/rap/RM\_WinnersOfThe2024RSTF  
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3. For information and dissemination.



**TOLENTINO G. AQUINO**  
Director IV *TA*

Encl.: None

References: RM 1519, s. 2024, and RM 1644, s. 2024

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December 9, 2024

