



Republic of the Philippines  
**Department of Education**  
REGION VII – CENTRAL VISAYAS  
Schools Division OF NEGROS ORIENTAL

Office of the Schools Division  
Superintendent

21 NOV 2023

DIVISION MEMORANDUM


No. 847 s. 2023

**FINALISTS AND FINAL INSTRUCTIONS FOR THE REGIONAL SCIENCE AND  
TECHNOLOGY FAIR 2023**

To: Assistant Schools Division Superintendents  
Chief, CID and SGOD  
Public Schools District Supervisors  
All Others Concerned

1. This Office, through the Curriculum and Implementation Division (CID), announces and congratulates the Finalists for the Regional Science and Technology Fair 2023 which will be conducted on November 27-28, 2023 at DepEd Ecotech Center, Sudlon Lahug, Cebu City.
2. Please see attached Regional Memorandum No. 879, s. 2023 for your reference.
3. School Heads are advised to issue Travel Order of the participants.
4. Immediate dissemination of and compliance with this Memorandum are directed.

**By the Authority of the Schools Division Superintendent:**

  
**NILITA L. RAGAY EdD**  
ASDS/ CID Chief  
Office In-Charge  
11/21/23

NCO/JMA-MKP-NLR/CID/NLR/arj  
November 21, 2023



Address: Kagawasan Avenue, Capitol Area, Daro, Dumaguete City  
Telephone Nos.: (035) 225-2838 / 225-2376 / 422-7644

 DepEd TAYO SDO Negros Oriental

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Republic of the Philippines  
**Department of Education**  
REGION VII - CENTRAL VISAYAS

Office of the Regional Director

20 NOV 2023

**REGIONAL MEMORANDUM**

No. **879** s. 2023

**FINALISTS AND FINAL INSTRUCTIONS FOR THE REGIONAL SCIENCE  
AND TECHNOLOGY FAIR 2023**

To: Schools Division Superintendents  
Assistant Schools Division Superintendents  
All Others Concerned

1. This Office, through the Curriculum and Learning Management Division (CLMD), announces the Finalists for the Regional Science and Technology Fair 2023 found in Enclosure 1.

2. Other official participants and final instructions for the conduct of the RSTF 2023 are found in the following enclosures:

2.1 Enclosure 2: List of RSTF 2023 Judges

2.2 Enclosure 3: List of the Technical Working Group and Event Sponsors

2.4 Enclosure 4: RSTF 2023 Assignment of EPS Math and Science

2.5 Enclosure 5: RSTF 2023 Program Matrix

2.6 Enclosure 6: Mechanics for the Contest Presentation; Scoring Tool & Point System

3. A Registration Fee of Php 3, 500.00 shall be collected for each participant to cover the board and lodging of the participants and judges. All participants are advised to be on a live-in basis to secure the safety of the learners and to anticipate the late dismissal of the competitions. Travel and other incidental expenses as well as the registration fee shall be charged to School/Division MOOE, PTA fund, SEF and other fund sources subject to the usual government accounting and auditing rules and regulations. The honoraria of the judges shall be charged to the downloaded fund- OSEC 7-23-5577, intended to cover funding requirements in the conduct of RSTF.

4. The finalists are advised to wear formal business attire on Day 1 and Day 2 of the competition. While coaches are advised to wear an SDO shirt/School shirt/DSTF shirt whichever is available. The EPSs are advised to wear SDO shirts on Day 1 and RO7 Science and Math Team shirts on Day 2.




Doña M. Gaisano St., Sudlon, Lahug, Cebu City  
Telephone Number: 639457623193 local 700

DepEd Tayo Region VII

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5. Finalists and coaches are advised to arrive for registration on Day 0 at 3:00 pm at DepEd Ecotech Center, Sudlon Lahug, Cebu City. The first meal is dinner on Day 0 and the last meal is pm snacks on Day 2, except for the TWG and coaches, whose last meal will be dinner. The TWG is requested to assemble and join the final briefing on Day 0, 1:00 pm at Molave Room. Afternoon snacks will be provided.
6. School Heads are advised to organize classes for the designated coaches, ensuring seamless learning through various modalities, including modular instruction, or assigning other teachers to oversee the activities.
7. Each division office is requested to prepare a 30-second shout-out video in an mp4 file to be played in the opening program which features the winners of the DSTF in all categories reciting the shout out/mantra of the division with some upbeat music. This will be submitted on or before November 20, 2023, until 5:00 pm through the Google drive link that will be provided with a file name: Shoutoutvideo\_Division.
8. Each finalist is requested to bring a hometown delicacy (candy or biscuit) or souvenir (keychain) for the RSTF Finalists' Mixer.
9. Service Credits and Compensatory Time-Off are granted to the participants on November 27, 2023 (Monday) that will fall on holiday (intended for Bonifacio Day) in accordance with DepEd Order No. 53 s. 2003, Updated Guidelines on Grant of Vacation Service Credits to Teachers and CSC-DBM Joint Circular No. 2. S. 2015, Policies and Guidelines on Overtime Services and Overtime Pay for Government Employees, respectively.
10. For more inquiries, kindly contact Dr. Bryant C. Acar, R7 EPS in Science at 09430166769 or [bryant.acar@deped.gov.ph](mailto:bryant.acar@deped.gov.ph) and Mr. Cesar A. Restauro Jr., R7 EPS Math at 09175656569 or [cesar.restauro@deped.gov.ph](mailto:cesar.restauro@deped.gov.ph).
11. Immediate dissemination of and compliance with this Memorandum are directed.

  
**SALUSTIANO T. JIMENEZ JD, EdD, CESO V**  
Director IV  
Regional Director

STJ/FYA/CLMD/MJD/bca



Doña M. Gaisano St., Sudlon, Lahug, Cebu City  
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Enclosure 1 of RM 879 2023

**FINALISTS FOR THE REGIONAL SCIENCE AND TECHNOLOGY FAIR 2023**

<b>1. TUKLAS - LIFE SCIENCE - INDIVIDUAL CATEGORY</b>				
<b>SDO</b>	<b>Name of Learner/s</b>	<b>Name of the Coach</b>	<b>School</b>	<b>Title of the Entry/Project</b>
1. Bayawan City	Shania Rey P. Legaspi	Sharon S. Arevalo	Bayawan City Science & Tech Education Center HS	GABWOTea: A Hydroponic Organic Grow Solution through a Compost Tea Consisting of Grass Clippings, Chicken Dung, Banana Peel and Wood Ash for the Growth of Lettuce ( <i>Lactuca sativa</i> )
2. Bohol	Rianne Pearl P. Tadle	Nelpa W. Gamayot	Dusita High School	Maltiban Fertilizer- from Malunggay Leaves ( <i>Moringa oleifera</i> ), Alugbati Leaves ( <i>Basella alba</i> ) and Banana Peelings ( <i>Musa acuminata</i> )
3. Cebu City	Phoebe Ricel S. Tek-ing	Janielle Bernice A. Guion	Don Vicente Rama Memorial National HS	Antifungal Activity of <i>Trichoma viride</i> and <i>Metarhizium anisopliae</i> against <i>Bipolaris maydis</i> that causes Southern Corn Leaf Blight in <i>Zea mays</i> L. var. <i>indentata</i> *White Corn) Plant
4. Cebu Province	Baby Trisha S. Quimod	Mary Therese O. Masbate	San Remigio NHS	In vitro Antibacterial Activity and Anti Quorum Sensing of the Ethanolic Extracts of Pleomele ( <i>Dracaena reflexa</i> ) Leaves against <i>Pseudomonas aeruginosa</i>
5. Dumaguete City	Lady Althea Castro	Blair A. Sarande	Ramon Teves Pastor Memorial DSHS	Mesoplastic and Microplastics in Rabbitfish ( <i>Siganus spinus</i> ) in Dumaguete City
6. Lapu-Lapu City	Yashey Dane B. Gica	Zsarina Grace G. Brañanola	STEC SHS	Pesticidal Activity of Crown of Thorns Sea Star ( <i>Acanthaster planci</i> ) against Mealybug ( <i>Pseudococcus</i> )



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7.Mandaue City	Shea-J F. Gomez	Erlinda A. Parba	Mandaue City Science HS	Laboratory Evaluation of Different Treatment Ratios on Beauveria bassiana Virulence against Coconut Leaf Beetle (Brontispa Longissima) Isolated from Coconut (Cocos nucifera) Leaves
8.Negros Oriental	Nylian Jane Taguiam	Rowena R. Dinokot	Ajong NHS	Larvicidal Action of Lanzones (Lansium domesticum) and Rambutan (Nephelium lappaceum) Fruit Peel Extracts against Household Mosquito Larvae
9.Siquijor	Arfaye Gem M. Daug	Yelena V. Felices	Candaping NHS	INSMOMMADEA: as Potential Indigenous Feeding Alternatives: Its Synergistic Growing Effect to Broiler Chicken (Gallus gallus domesticus)
10.Toledo City	Kyla Nicole B. Geralla	Kristine R. Torres	Toledo City Science HS	Antibacterial Property of Kalachuchi (Plumeria rubra) Flower Extract against E. coli

**2. TUKLAS - LIFE SCIENCE - TEAM CATEGORY**

<b>SDO</b>	<b>Name of Learner/s</b>	<b>Name of the Coach</b>	<b>School</b>	<b>Title of the Entry/Project</b>
1.Bais City	MJ Kycyl G. Libradilla Chloe Avril V. Olpos Jassim Catulinan	Mary Joy P. Piella	Bais City National Science HS	Examining the Effectiveness of Chicken (Gallus gallus domesticus) Manure and Potato (Solanum tuberosum) Peels as Organic Fertilizer on Tomato (Lycopersicon esculentum) Plants
2.Bohol	Arvee Jane M Ducao Mae Kyla P. Pagaran Mikaela A. Tadle	Ryan Carlo B. Lapuag	Dusita High School	EggCoPay: Optimizing Egg Yield in Philippine Leghorn Chickens (Gallus gallus domesticus) using Eggshells, Corn (Zea mays) bran, and Papaya (Carica papaya) as Feed Additives
3.Cebu City	Michaela Ria C. Rentuza Mikaela Rose Emereene D. Macabata Wesly N. Secuya	Reuth Thessalonica C. De La Victoria	Cebu City National Science HS	Anthelmintic Activity of Ethanolic Extracts of Chico (Manilkara zapota) Bark Against Gastrointestinal Strongyle Eggs: In silico and In vitro Evaluation



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4.Cebu Province	Jan Christian Jay Abella Dwayne Anthony L. Aseo Geralyn B. Luna	Jaemaica P. Gimena	Compostela Science & Technology High School	The Antibacterial Potential and Synergistic Antibacterial Effect of Papaya ( <i>Carica papaya</i> ) male Flower Extract and Neem Tree ( <i>Azadirachta indica</i> ) Leaf Extract against <i>Escherichia coli</i> (E. Coli)
5.City of Naga	Jimzlyn E. Comendador Alexa Kate J. Serrano Angela Beatriz L. Rizada	Karen Claire D. Gloca	Uling NHS	A Comparative Study between Banana Peels ( <i>Musa paradisiaca</i> L.) and Carbonized Rice Hull/Husk ( <i>Oryza sativa</i> L.) as Natural Fertilizer for Pechay ( <i>Brassica rapa</i> )
6.Dumaguete City	Mark Lawrence B. Caroro Kyleigh Anne I. Nuez Kyrelle Marie I. Nuez	Blair A. Sarande	Ramon Teves Paster Memorial-DSHS	The Antioxidant and Cytotoxic Activity of Tambis ( <i>Syzygium aqueum</i> ) Leaf Extract
7.Lapu-Lapu City	Gizel O. Ybañez Czeanne Antoinette A. Rizal Ryle Ivan E. Machitar	Zsarina Grace G. Brañanola	STEC SHS	In-vivo Anti-inflammatory Activity of Coconut ( <i>Cocos nucifera</i> ) Shell Liquid Smoke (CSLS) for Hepatic Injury in Sprague Dawley Rats
8.Mandaue City	Jenasha Priceli D. Edrial Kate Elmary T. Roda Jhamaica Mhei J. Ycong	Racel S. Logarta	Mandaue City Science HS	Cytotoxic Evaluation of Nut Grass ( <i>Cyperus rotundus</i> ) Extracts through Zebrafish ( <i>Danio rerio</i> ) and Molecular Docking
9.Negros Oriental	Lloyd John T. Morales Eddieson S. Carreon Gwyn Aubrey Rose Baldomero	Berma O. Patron	Valencia NHS	Potential Anti-Microbial Properties of <i>Hibiscus rosa sinensis</i> , <i>Bougainvillea spectabilis</i> , and <i>Plumera obtusa</i>
10.Toledo City	Ian Vincent Duba Chris Edrick Guerra Kate Zhyra Villagantol	Julie Ann Escabas	Awihao NHS	Effectiveness of Duckweed ( <i>Lemna minor</i> ) as Supplemental Feed for Red Tilapia Fingerlings ( <i>Oreochromis</i> sp.)
<b>3. TUKLAS - PHYSICAL SCIENCE - INDIVIDUAL CATEGORY</b>				
<b>SDO</b>	<b>Name of Learner/s</b>	<b>Name of the Coach</b>	<b>School</b>	<b>Title of the Entry/Project</b>
1.Bohol	Ma. Djoanna B. Sanchez	Jesson Lungay	Calape National HS	Generating Electricity from Human Urine through Microbial Fuel Cell
2.Cebu City	Nicolae James Pare D. Sanchez	Chona S. Reyes	Don Vicente Rama Memorial National HS	Saltwater Desalination System Using Solar Still with UV Sterilizer: Solving Potable Water Problems among Marginalized People



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3.Cebu Province	Ailyn D. Cosep	Jane R. Cedeno	Minglanilla Science High School	Polypropylene Non-Woven Face Masks for Interior Plyboard
4.City of Bogo	Ramil Allen M. Masong	Daniella Anne M. Pinote	Jovencio N. Masong NHS	GREEN BAG: Germination Receptacle using Eggshells and Environmentally Natural Wastes as Biodegradable Alternative Germination Medium
5.Lapu-Lapu City	Aaron James D. Monte Siat	Zsarina Grace G. Brañanola	STEC SHS	Laka-hanol: The Analysis of the Physical Characteristics of Bioethanol Production of Lakatan Banana ( <i>Musa acuminata</i> ) Peels
6.Mandaue City	Christian Paul B. Palacio	Noelyn Marie P. Navarro	Mandaue City Science HS	Assessing the Effects of Catalyst Type Concentration and Methanol-to-Oil Ratio on Methyl Ester Yield in the Transesterification Process of Darak (Rice Bran) Oil Extracts
7.Negros Oriental	Maryanne R. Alabado	Lyndon D. Patrocinio	Casiano Z. Napigkit NHS	Seawater Desalination Using Solar Energy
8.Siquijor	Ethan I. Paculba	Izel D. Daug-Quidlat	Siquijor Provincial SHS	Project TESLA
9.Tagbilaran City	Sharrah Mae T. Maraguinot	Josefina O. Narit	Dr. Cecilio Putong NHS	The Lemon Grass ( <i>Cymbopogon citratus</i> ) Leaf Extract and Iba Fruit ( <i>Averrhoa bilimbi</i> ) Extract as Rust (Ferrous Oxide) Remover
10.Toledo City	Isaac Junn T. Soler	Patrick James C. Tesorio	Toledo City Science HS	Methane Adsorption Capacity of Coir Pith and Activated Charcoal

**4. TUKLAS – PHYSICAL SCIENCE – TEAM CATEGORY**

<b>SDO</b>	<b>Name of Learner/s</b>	<b>Name of the Coach</b>	<b>School</b>	<b>Title of the Entry/Project</b>
1.Bais City	Jarenc Ace P. Cule Ma. Able Rose A. Juanillo Mary Winmae C. Ramirez	Carmelo A. Jamito Jr.	Bais City National Science HS	The Feasibility of Coconut ( <i>Cocos nucifera</i> ) Kernel with Okra ( <i>Abelmoschus esculentus</i> ) Mucilage as an Eco-Paper
2.Bayawan City	Avril Geanne S. Arroyo Colleen Grace A. Avestruz Claire Catherine C. Jones	Jorinda Faith R. Biton	Bayawan City Science & Tech Center HS	Investigating Turmeric ( <i>Curcuma longa</i> ) and Blue Ternate ( <i>Clitoria ternatea</i> ) as Plant-based Stain Alternative for Methylene Blue in Microscopic Analysis



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3.Bohol	Mae Janeli S. Abalo Mark Aries L. Bermoy John Nicko R. Ricalde	Ricky L. Ras	San Roque NHS, Albur	EnviNa: Banana Pseudo-stem ( <i>Musa accuminata</i> ) as an Alternative Paper and Multi-Purpose Material
4.Cebu City	Chrisabella Manlucot Adrian Gbariel Canedo Pearl Margret Quiampan	Mary Ann D. Bacalso	Cebu City National Science HS	Assessing the Impact of Ammonia Pollutants through Fish Scale Analysis
5.Cebu Province	Al Angel Chelsea P. Tinga Mary Rose T. Pacina Alessandra P. Victoria	Lina P. Tinga	Bantayan Science High School	Eggshell-Ferric Oxide: Novel Catalyst for CO, CO <sub>2</sub> , and HC Reduction in Engine Exhaust Gas
6.City of Bogo	Nina Yvette B. Casas Seth Gabriele C. Del Puerto Kez Laudette M. Malinao	Joane C. Orongan	City of Bogo SHS	REPHOS: Recovering Phosphate from Swine Wastewater using Coconut ( <i>Cocos nucifera</i> ) Shell Magnetic Biochar from Sustainable Soil Conditioning
7.Dumaguete City	Emmanuel M. Madalton Aaliyah Kirsten A. Cutillar Sam Maverick T. Ventula	Rasel A. Dayuday ko	Ramon Teves Pastor Memorialized - DSHS	Project Carbotrap: A CO <sub>2</sub> -based Mosquito Trap
8.Lapu-Lapu City	John Miguel F. Gerarman Berlyne Joy B. Ompad Fatima G. Tampus	Zsarina Grace G. Brañanola	STEC SHS	<i>Leucaena leucocephala</i> (Ipil-Ipil) as Substrate for Microbial Fuel Cell (MFC) Technology Using Cellulose-degrading Bacteria
9.Mandaue City	Kyle Anthony M. Oporto April Rose A. Mondilo Rica O. Vereide	Mary Ann T. Moreno	Cabancalan NHS	Effects of Coco ( <i>Cocos nucifera</i> ) Fiber Reinforcement on the Properties of Cassava ( <i>Manihot esculenta</i> )
10.Toledo City	Jehoiakim B. Dejito Dhayne Diozyne C. Juarez Kristil JB Yumol	Deborah F. Manabat	Toledo City Science HS	Durability and Solubility of Seaweeds and Citrus Polysaccharides Bioplastics
<b>5. TUKLAS - ROBOTICS &amp; INTELLIGENT MACHINES - INDIVIDUAL CATEGORY</b>				
<b>SDO</b>	<b>Name of Learner/s</b>	<b>Name of the Coach</b>	<b>School</b>	<b>Title of the Entry/Project</b>
1.Carcar City	Chloe Estelle Atillo	Farrah Madrio	Ocana NHS	Soil Saver: An Arduino Uno and IoT-Based Soil NPK Analyzer for Crops
2.Cebu City	Sharyn Mary O. Cuyos	Chona S. Reyes	Don Vicente Rana Memorial National HS	Solar-Powered Automatic Drip-Irrigation System: Addressing Water Scarcity During Dry-Season Among Small Scale Farmers





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3.Cebu Province	Amil Rey D. Pielago	Jerameel K. Estrera	Badian NHS	Arduino-based Electrical Circuit Overload Prevention with GSMD Module
4.City of Bogo	Therese Jane H. Manatad	Armand Sebastian Benabaye	City of Bogo SHS	Project PISCES: Advancing Localized Fish Farming using Arduino-based Smart Water Quality Monitoring with IoT Integration
5.Danao City	Lyocaz Elijah C. Davidon	Roceanna Lyca Dayday	RMDSF-STEC	VISIONVEST- Vision Impairment Support and Obstacle Detection Vest for Children
6.Guihulngan City	Brylle B. Pilapil	Anacita C. Malahay	Guihulngan NHS	Arduino Automatic Irrigation System Using Water Sensor
7.Lapu-Lapu City	Christian Miguel N. Gallo	Richard Arriescado	STEC SHS	ASLphabet: Phyton-Programmed American Sign Language Recognition Software to text Conversion for Online ASL Conversations
8.Mandaue City	Karl Gian S. Abellana	Pamela S. Perez	Mandaue City Science HS	Drone Artificial Intelligence Model for Corn (Zea mays) Crop Disease Symptom Mapping
9.Negros Oriental	Margareth J. Ac-ac	Bradelen T. Macajig	Siaton NHS	Roboguard: Air Quality and Temperature Detection Mobility Robot
10.Siquijor	Ritz C. Duhaylungsod	Angel Arthur M. Doble Jr.	Siquijor Provincial Science HS	Project YUTA: Yield-Enhancing Utility for Terrain Analysis with SMS Notification
<b>6. TUKLAS - ROBOTICS &amp; INTELLIGENT MACHINES - TEAM CATEGORY</b>				
<b>SDO</b>	<b>Name of Learner/s</b>	<b>Name of the Coach</b>	<b>School</b>	<b>Title of the Entry/Project</b>
1.Bayawan City	Abrielle Eradel Y. Tumale Sweet Vallery M. Tumale Maria Alexssa T. Tenefrancia	Marisol M. Masayon	Bayawan City Science & Tech Center HS	pH Dosing mechanism for Lettuce (Lactuca sativa) Hydroponics Farming
2.Carcar City	John Xyron Cervantes Ahyessa Llanos Hannah Mary Grace Delerio	Retchie Castro	Ocana NHS	Project RAFT: An Arduino Uno-based System for the Collection of Macro and Micro Plastics in Aquatic Environment
3.Cebu Province	Dwynn D. Negrido Prince August Ruthelch R. Toledo Healvey T. Taytayan	Kimberly V. Irmano	Bantayan Science HS	3 in 1 Classroom Automated Services Integration (CLASI): Disinfecting, Mist Cooling and Smoke Detecting System



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4. City of Bogó	Analie R. Pedrano Andrei Miguel F. Reformina Rose Feth F. Catadman	Kent Jaspher C. Ytang	City of Bogó SHS	AGRIGENT: Enhancing Greenhouse Agriculture with IoT (Internet of Things)-Enabled Automated Irrigation and Rainwater Harvesting System for Improved Crop Growth and Water Efficiency
5. City of Naga	Eva Mae C. Omambac Khylle Hensley C. Tomabiao Justine Carl P. Selim	Rheden H Bastismo	City of Naga Integrated Center for Science, Technology, Culture & Arts	Project GARRY
6. Danao City	Ken Joedel D. Mata Margareth Ann L. Flores Ailiyah Jailyñ Gorre	Gerstle Corazon S. Duarte	RMDSF-STEC	Corn P.U.G.A.S (Production Utilizing Green Energy for Automated Sowing)
7. Dumaguete City	Allisson Mae L. Pajunar Daniel Emmanuel A. Lozada Kerlyñne Abrasaldo	Alvin Leo T. Suasin	Ramon Teves Paster Memorial DSHS	Arduino Fire Notifier through SMS and Buzzer
8. Lapu-Lapu City	Mariella Kaili T. Silla Rain Xerxes P. Archival	Reyna Mae Dolera	Marigondon NHS	Project TEMFRAW: A Temperature, Fertilizer Repellant and Water Sprinkler using Arduino Mega 2560
9. Negros Oriental	Jalian R. Sagales Neogel Lourenze E. Fernandez Rainhard A. Presbitero	Nickjun B. Abello	Demetrio L. Alviola NHS-SHS	HydroSense: Advanced Arduino Climate Adapter Hydroponics
10. Siquijor	Alyssa Angela A. Dela Pena Yasmin M. Nano Augustus Gabriell A. Maniquez	Angel Arthur Doble Jr.	Siquijor Provincial Science HS	Tig-TULA-ok: Technological Utility for Layers' Management Automation
<b>7. TUKLAS – MATH – INDIVIDUAL CATEGORY</b>				
<b>SDO</b>	<b>Name of Learner/s</b>	<b>Name of the Coach</b>	<b>School</b>	<b>Title of the Entry/Project</b>
1. Bayawan City	---	---	---	Typhoon Intensity Forecasting: SSTA-Driven Simulation and Evaluation of 5 Significant Typhoons with Fortran-based FV3-GEFS Model



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2. Bogo City	Jose Mari Paolo B. Rollan	---	City of Bogo Senior High School	Establishing an Upper Bound on the Number of Prime Entries in the $i$ th Row of Pascal's Triangle
3. Bohol	Gleian Bryll J. Abad	---	Ubay National Science High School	Programming Applications of the Sucobril Formula: Date-to-date Calculator Solving the Exact Weekday and Total Number of Days Between Two Given Dates
4. Carcar City	Belle P. Sasutil	Emmanuel P. Nadela	Ocaña National High School	Forecasting Palay Production in Visayas Regions and the Philippines
5. Cebu City	Jabez Benedict M. De La Victoria	Iza Mari Victoria F. Lechido	Cebu City National Science High School	Annual Crypto Art Transaction Model for Carbon Emission Rate
6. Cebu Province	Ellyn R. Tabanao	Wilma D. Toribio	Badian National High School	A mathematical Investigation of Odd Perfect number using Dev-C++ with C language
7. Danao City	Kaisha Mae L. Capoy	Ian Rethse M. Vergara	Ramon M. Durano Sr. Foundation-STEAC	Utilizing Exponential Growth Functions and Temperature Conditions to model the Growth Dynamics of <i>Geobacillus stearothermophilus</i>
8. Dumaguete City	Yssa Sophia B. Jumalon	---	Ramon Teves Pastor Memorial Dumaguete Science High School	Summer of 99's: A Shortcut in Manually Multiplying Multiple-digit Numbers of 9s
9. Lapu-Lapu City	Princess Lyncel A. A. Tirando	---	Babag National High School SHS	A Raspberry Pi Microcontroller-based Insect Pests Detection and Counting System in Vineyards using Oak-1 Camera
10. Mandaue City	Sophia Mae S. Cinco	Kenneth A. Siglos	Mandaue City Comprehensive National High School	Statistical Modeling Using Polynomial Regression and Utilizing Hazen-Williams Equation, Volumetric Flow Rate and Cylinder Volume Formula to Calculate Clogging Factor and Length of Clogged Section
11. Naga City	Glyzel B. Dizon	Shahani D. Dublin	Uling National High School	A Meta-Analytic Investigation of the Correlation Between Math Anxiety and Student's Math Performance.



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12.Negros Oriental	Raisa Mae B. Silorio	Gil S. Dael	Crisostomo O. Retes NHS	On Aritmetic-Mean Sequences
13. Siquijor	Dominic Sumile Mabayambang	Cheryl C. Padayhag	Siquijor Provincial High School	Exposition of 4D Sequence in a Hybrid Euclidean Geometry and Its Possible Application to Structural Engineering Problems
14.Tagbilaran City	Prince Arcel Lafuente Luay	---		Mathematical Model on the effect of Papaya (Carica papaya) Leaf Extract on the Increase of Platelet Count of Heparin-Induced Rabbits (Oryctolagus cuniculs)
<b>8. TUKLAS - MATH - TEAM CATEGORY</b>				
<b>SDO</b>	<b>Name of Learner/s</b>	<b>Name of the Coach</b>	<b>School</b>	<b>Title of the Entry/Project</b>
1.Bogo City	Keycel C. Codera Krishia Mae R. Noval Jihn Abeah R. Adorno	Kenneth June B. Ybanez	Libertad National High School	Mathematical Models of Rice Consumption Patterns of Selected Households in Barangay Libertad, Bogo City, Cebu, Philippines
2. Bohol	Venz Kiefer C. Namoco Nazz Angelo A. Olaco Mary Joy R. Ranque	Via Marie Joy P. Corpuz	Candijay Municipal High School	Optimizing Performance of Solar Panels Using Mathematical Modelling
3.Cebu City	James Timothy H. Abejar Airron Charles L. Abellana Justine Kyle P. Alon	Megan C. Zerda	Cebu City National Science High School	Reliability of CADMA Software in Projecting Rockfall Velocity, Bounce and topping Distance in Busay, Cebu City
4. Cebu Province	Kirsten Noelle M. Villamor Shanyl Shifra S. Mangubat Erick Kent G. Gunhuran	Karina Patricia R. Cenit	Medellin National Science and Technology School	The Influence of Web Traffic on ChatGPT Generated Informative Essays
5.Danao City	Nino Rhean T. Bataluna Cyrah Mae L. Capoy	Alvin Tampus	Ramon M. Durano Sr. Foundation-STEC	Optimizing Public Health Preparedness: Harnessing Multiple Linear Regression for Heat Index Prediction in Cebu City in the Month of April
6. Dumaguete City	James Ivan Aranas Cesar Michael Destor Margelyn Lujbo	Karla May F. Catarutan	Camanjac National High School	Embracing the Totality: A Quintet of Cubes



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7. Mandaue City	Ashlee T. Maglasang Mark P. Pacana Mary Criz Torion	Mirja Marie A. Tiongzon	Mandaue City Comprehensive National High School	Probability Analysis of Fringing Coral Reef and Coral Reef Fish Species Using Naïve Bayes Classification Algorithm Technique with Convolutional Neural Networks (CNN) Modeling in Selected Marine Sanctuaries of Region VII
8. Naga City	Kent Jazon L. Cardeno Jedrik Mikhail Paradela Leon Boniel	Niezy Mae H. Postrero	City of Naga Integrated Center	Nutrimization: Applying Linear Programming in Selecting Optimal Foods in Terms of Energy and Cost for Undernourished Children
9. Negros Oriental	Ashley Jane Absin Samantha Margaret C. Halim Alianna Necole C. Yamang	Little Beth S. Bernadez	La Libertad Technical- Vocational School	Arduino-Controlled Flood Monitoring and SMS Alert System
10. Siquijor	Miguel Luis Jumawan Nean Theres T. Manginsay Ardane Faith Bulagao	Alma B. Panzo Glorefe Daug	Siquijor Provincial Science High School Minalulan ES	Project SPSHS: Siquijor-Wide Prediction of Specific Humidity using Simple Linear Regression
11. Tagbilaran City	Mareanne Louise Elle Alaban Angelo Jose Espejo Alo Judy Ann Lomonzod	---	Dr. Cecilio Putong National High School	Pulverize Oyster ( <i>Crassostrea iredalei</i> ) Shell and Discarded Glasses as Composite
12. Tanjay City	Rhea Mariz T. Revira Kathleen Culi Kenneth O. Silvania	Marialyn N. Reyes	Tanjay City Science High School	Voyaging the Rings of Fire: Quantifying Volcanic Impacts of Circular Danger through Mathematical Exploration
<b>9. INNOVATION PROJECT EXPO – INDIVIDUAL CATEGORY</b>				
<b>SDO</b>	<b>Name of Learner/s</b>	<b>Name of the Coach</b>	<b>School</b>	<b>Title of the Entry/Project</b>
1. Bohol	Karl Hadriel R. Coloyan	Joven Jay S. Torion	San Miguel Technical Vocational School	EnergyGuard: Smart Automation for Electricity Management
2. Cebu City	Emmanuel Jay E. Pacaña	Roland F. Olo	Bulacao Community National HS	RFID Door Unlock



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3.City of Naga	Ana Lorena V. Lapiz	Leonifel D. Alforque	City of Naga Integrated Center for Science, Technology, Culture & Arts	Solar-Paneled Hammer-like Dust Filtering Pole
4.Dumaguete City	Rhoda Glaire J. Inoferio	Ma. Lina M. Redome	Junob NHS	An Arduino uno-based via Code Parcel Receiver Device as an Alternative of Face-to-Face Receiving of Parcel
5.Lapu-Lapu City	Rovic Gabriel M. Cambalon	Hanzel Funtanar	Babag NHS	Bullet Irrigation System
6.Mandaue City	Johann Steven M. Tunacao	Marie Astred T. Gitgano	Mandaue City Science HS	Ozonique: Ozone generation technology for Sustainable and Eco-friendly Fresh Vegetables Preservtaion
7.Negros Oriental	Harti Laura D. Agbon	Rosewin P. Rocero-Panaguiton	Sta Catalina Science HS	Improvised Manual Rotary Evaporator
8.Siquijor	Jareend Claire B. Bahian	Izel D. Daug-Quidlat	Siquijor Provincial Science HS	Project INETT
9.Tagbilaran City	Ryan Kyle Hamoay	Jesmar Joseph Magdugo	Tagbilaran City Science HS	Smart Blind Stick with Earphones using Arduino
<b>10. INNOVATION PROJECT EXPO - TEAM CATEGORY</b>				
SDO	Name of Learner/s	Name of the Coach	School	Title of the Entry/Project
1.Bohol	Dave Anthony P. Bastasa Nina R. Magallen Mericon P. Sta. Ana	Caryll Bianca S. Dano	Sandingan National HS	Innovative Hurdy-Gurdy Water Wheel with Aero-Solar Backup Power as Potential Energy Generating System in Sandingan Island, Loon, Bohol
2.Cebu City	Jezelle B. Tejano Brent Michael Mancelita Mary Hyacinth T. Agustin	Melchizedeck P. Rudinas	Cebu City National Science HS	HydroSentinel: An Arduino Controlled, Solar-Powered Flood Level Warning System with IoT Mobile Application
3.Cebu Province	Wendy Lyn Heredia Cynthia Ochea Jay Ann Oliverio	Jeward D. Bingtan	Tag-ubi Integrated School	INTELLIALERT: Multi-sensor Arduino-based Integrating Fire Alarm and Water Level Monitoring with Real Time Relay of Information through Radio Signal Broadcast and SMS Alert



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4. City of Bogoto	Rayver Andrin Jay Rhon T. Andrino Josiah M. Mendez	Marielle C. Dabucol	City of Bogoto SHS	SECURE: RFD-based Motorcycle Parking Shading System with IoT (Internet of Things) Alarm Integration
5. Dumaguete City	Kyle C. Sadagnot Carl G. Menda Bridgette Nicole K. Catapusan	Jerlou P. Fabian	Junob NHS	Solar-Powered Thermal Printer with Built-in Powerbank
6. Mandaue City	Karl Rico V. Anore Hendrick L. Comendador Francis Jedriek C. Villarampa	Marie Astred T. Gitgano	Mandaue City Science HS	Project W.A.V.E.: Wastewater Aqua Vessel for Electrocoagulation
7. Negros Oriental	Mebert Paul Aranas Angel may N. Batobalanos Merjeneviene Suzane M. Eullaran	Rowena R. Dinokot	Ajong NHS	Bicyfuge: Its Feasibility in Separating Colloids
8. Siquijor	Ariel Rey D. Lomolio Georgina Alexa D. Quidlat Norlyn Suan	Izel D. Daug Quidlat	Siquijor Provincial Science HS	Project SUNBLADE
9. Tagbilaran City	Franzyne Adelle Lagapa John Dio Lumacang Rixel Rashid Manintim	Abigail Caluya	Tagbilaran City Science HS	PZT-Embedded Doormat to Power a Night Light
10. Toledo City	Joshua Brian R. Villaver Shaira A Canangga Kirstein Irv L. Victorillo	Virgie Lee E. Deligero	Toledo City Science HS	Remote-controlled Automated Agricultural Sprayer

**11. SIBOL – SCIENCE INVESTGATORY PROJECT – ELEMENTARY CATEGORY**

SDO	Name of Learner/s	Name of the Coach	School	Title of the Entry/Project
1. Bais City	Marco Antonio K. Martinez Sebastian F. Grapa Imma Chelsea B. Adalid	Maria Danica C. De Villa	Bais City Special Science Elementary School	Utilizing Oyster ( <i>Crassostrea virginica</i> ) as Natural Rainwater Filtration Medium
2. Bayawan City	Arielle Kate H. Dumat-ol Josh Angela S. Bit-on Arvee Arch Montano	Michelle F. Bayot	Bayawan City Science & Tech Center HS	Aratiles ( <i>Muntinga calabura linn</i> ) leaves and Banana ( <i>Musa babisiana</i> ) leaves as Materials for Paper Production



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3.Canlaon City	PreceL Kith L. Dela Pena Princess Kate H. Cuevas	Perlita P. Tapia	Budlasan Elem School	Eco-Power: Guyabano (Anona muricata) Potential for Electricity Generation
4.Cebu City	Ziaa Princess P. Destriza Cathleen Rose R. Dohinog Ava Kharice C Montecillo	Analyn B. Uy	Lahug Elementary School	Bio-Efficacy of Epipremnum Aureum Linn (Green Queen) Leaf Extract Against Fusarium Oxysporum Causing Disease to Musa (Banana)
5.Cebu Province	Alieghza RoseL. Tubong Rexelle L. Lumanog Marianne Faith T. Plang-at	Joyce M. Dela Calzada	Buanoy Central Elementary School	Larvicidal Effect of Ethanolic Extract of Makahiya (Mimosa pudica) Roots on Aedes aegypti Larvae
6.City of Bogo	Simon Albrecht I. Puno Jasmine Grace C. Madeja Raymund Matthew C. Goco	Vicente A. Picar	City of Bogo Science and Arts Academy	Revolutionizing Green Care: The Rise of Arduino-based Remote Controlled and Automated Plant-Watering Robot
7.Dumaguete City	Pixel R. Beso Jeanne Scarlet Locsin Cassidy Therese H. Calinawagan	Lelibeth N. Duran	West City ECLC	A Comparative Study: Mineral Content in Tap Water and in Rainwater
8. Guihulngan City	Marwell Talisayan Allyiah Roshien Canete Chrisha Kay O. Ymalay	Maybelen O. Trinidad	Guihulngan South Central School	Buzz-Light Earthquake Detector
9.Lapu-Lapu City	Bea jean Inoc Inrique S. Lacayan Seth Nathan P. Tejano	Noveim T. Leoligao	Kalawisan ES	Pesticidal Efficacy of Bilimbi (Averrhoa bilimbi) and Noni (Morinda citrifolia) Ethanolic Leaf Extract against Fall Armyworms (Spodoptera frugiperda)
10. Negros Oriental	Ivanna Rainelle M. Tubuhan Leanna Eve V. Vergara Ejay L. Estacio	Jovena G. Lumaya	Siaton Science ES	Larvicidal Properties of Lanzones (Lansium domesticum) Peeling Extract on Mosquitos
<b>12. SIYENSIKULA – HS Category</b>				
<b>SDO</b>	<b>Name of Learner/s</b>	<b>Name of the Coach</b>	<b>School</b>	<b>Title of the Entry /Project</b>
1.Bais City	James Jordan C. Cabanag	Prima T. Contratista	Bais City NHS	Everyday Arcs
2.Cebu City	John Philip C. Cazar	Hannah Mae C. Gabato	Cebu City National Science HS	First Law of Thermodynamics





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3. Danao City	Wayne Vincent B Manit	Leslie Joy L. Flores	Maslog NHS	Color Perception
4. Dumaguete City	Lester Aguilar	Tarra Angela Y. Garsula	Ramon Teves Pastor DSHS	What Lies Beneath?
5. Guihulngan City	Iris Tania Joe A. Baguio	Sheila D. Consular	Guihulngan NHS	The Shadow
6. Lapu-Lapu City	Joseph B. Ngujoo	Glennford P. Tago	Babag NHS	Doppler Effect
7. Mandaue City	Erkan T. Ramirez	Dennis J. Manatad	DGLLOMNHS	Processes Along Plate Boundaries
8. Negros Oriental	Shane Mae B. Ijan	Aiza M. Abingayan	Sumaliring HS	Unveiling the Mystery of Measurement
9. Tagbilaran City	Franzyne Adelle Lagapa	Flordynel A. Polo	Tagbilaran City Science HS	The Archimedes' Principle
10. Talisay City	Jelyka Epong	Sierra D. Jimenez	Lagtang NHS	Earth Science Absolute and Relative Dating
10. Tanjay City	Joshua Lourde Benedict A. Zerna	Catalino B. Dael III	Tanjay City Science HS	Collision Theory

**13. DIGITURO SA SIYENSIYA – Teacher Category**


SDO	Name of Learner/s	Name of the Coach	School	Title of the Entry/Project
1. Bayawan City	Kevin P. Anaiz		Tayawan National HS	Classifying Elements and Compounds
2. Carcar City	Armandaile Ochia		Tagaytay NHS	What are Eclipses?
3. Cebu City	J-Paolo Agcopra Jabaga		Cebu City Don Carlos A. Gothong Memorial National High School	Deoxyribonucleic Acid (DNA)
4. Cebu Province	Junrey D. Sumalinog Jr.		Macaas National High School	The Building Blocks of Life
5. City of Naga	Gio Jay B. Aligway		City of Naga Integrated Center for Science, Technology, Culture & Arts	Cellular Respiration
6. Danao City	Andrew Perminoff		Sandayang Sur NHS	Solving Problems Involving Boyle's Law
7. Dumaguete City	Froilan Bhoyd P. Cerialles		Junob ES	Changes in Materials Under Heat
8. Mandaue City	Charlene Y. Licay-Licay		Pagsabungan NHS	Investigate Changes Under the Condition: Presence or Absence of O <sub>2</sub>
9. Tagbilaran City	Ian Gracia		UB-VDTALC	Intermolecular Forces of Attraction



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10. Tanjay City	Mia M. Tamayo		Pamplona NHS	Describe the Physical and Chemical Changes in Rocks due to changes in pressure and temperature
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Prepared by:   
**DR. BRYANT C. ACAR**  
R7 EPS Science

Noted by:   
**DR. MARIA JESUSA C. DESPOJO**  
CLMD Chief



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**List of RSTF 2023 Judges**

<b>Category</b>	<b>Judges Name</b>	<b>Affiliation</b>	<b>Position</b>
Tuklas – Life Science (Team and Individual)	1. Jay P. Picardal (Chair)	Cebu Normal University	Director, Center for Research & Development, and Publications, Professor II, Biology Department, College of Computing, Artificial Intelligence and Sciences (CCAIS)
	2. Norman G. Quilantang	University of San Carlos	Science Research Specialist & Biology Instructor
	3. Alexphil O. Ponce	Center for International Education-British School,	Lecturer and Mentor, Biology and Research
Tuklas – Physical Science (Team and Individual)	1. Joje Mar P. Sanchez (Chair)	Cebu Normal University	Science and Research Instructor
	2. Seagal P. Asjali	Cebu Normal University	Physics and Chemistry Instructor
	3. May Revecho	PAREF Southcrest School	Department Chair & Chemistry Teacher
Tuklas – Robotics and Intelligent Machines (RIM) (Team and Individual)	1. Melvin M. Ninal (Chair)	St. Paul University-Surigao	Vice President for Academics; Expert in Information Technology
	2. Christopher B. Tingcang	Creotec Philippines	Company Training Manager and Robotics & Automation Specialist
	3. Arlan Vincent John German	Old St. Labs	System Architect

		damgU Software Development Solutions	Co-Founder and Chief Technology Officer-
Tuklas – Math and Computational Science (Team & Individual)	1. Rodolfo T. Aunzo, Jr.	Asst. Professor IV, Director for Research Extension Innovation and Commercialization	Visayan State University Isabel, Isabel Leyte
	2. Ray Ferdinand M. Gagani	Asst. Professor IV	Cebu Normal University
	3. Craig N. Refugio	Professor VI, Director for International Linkages, Assistant Dean-College of Teacher Education	Negros Oriental State University, Negros Oriental
Innovation Project Expo (Team and Individual)	1. Crisanto B. Natividad (Chair)	University of Cebu Main Campus	Faculty, College of Engineering, Department of Computer Engineering
	2. Ralph Herbie V. Ventero	Sedibus Industrial Facilities Management Corporation	CEO/Founder
	3. Nino Joshua C. Tanggaan	DOST RO7	Project Technical Assistant
Sibol – SIP Elementary/ Siyensikula (HS)/ Digituro (Teacher)	1. Jewish Merin (Chair)	Cebu Normal University	Associate Professor
	2. Marchee T. Picardal	Cebu Normal University	Director, Internal Audit Unit, Faculty Member – College of Teacher Education
	3. Anne Michelle Ramirez	DOST RO7	Research Specialist

Prepared by:

  
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**List of the Technical Working Group (Event Managers) and Event Sponsors**

SDO	SCIENCE		MATH	
	NAME	POSITION	NAME	POSITION
RO7	Mike John Saberon	Staff		
RO7	Bryant C. Acar	EPS	Cesar A. Restauro Jr.	EPS
BAIS	Salvacion A. Adana	EPS	Oliver C. Catacutan	EPS
BAYAWAN	Adonis S. Rivera	EPS		
BOHOL	Generosa T. Castillo	EPS		
CANLAON	Lester C. Pabalinas	Science Coordinator	Arnulfa L. Marcial	Math Coordinator
CARCAR	Meriam A. Dayondon	EPS		
CEBU CITY	Raylene S. Manawatao	EPS	Marites V. Patiño	EPS
CEBU PROVINCE	Juvimar E. Montolo	EPS	Pamela Rodemio	EPS
CITY OF BOGO	Charmaine Vera A. Ramos	EPS	Pedro O. Mapait	EPS
CITY OF NAGA	Carmencita B. Lopez	EPS		

DANA O	Marlyn V. Canales	EPS	Mary Ann E. Ramos	EPS
DUMAGUETE	Antonieta P. Vendiola	EPS	Miraluna V. Albina	EPS
GUIHULNGAN	Jose F. Belono Jr.	EPS		
	Christian Edu B. Villegas	Principal		
LAPU-LAPU CITY	Jennifer S. Mirasol	EPS		
MANDAUE	Rufino T. Tudlasan Jr.	EPS	Jocel Beduya	EPS
NEGROS ORIENTAL	Arnold R. Jungco	EPS	Elisa L. Baguio	EPS
SIQUIJOR	Nicarter Baroy Lomocso	EPS		
	Ronie Mabayambang	Teacher		
	Glorefe Daug	Teacher		
	Riza Bation	Teacher		
TAGBILARAN	Cherry Michelle F. Collyer	EPS		
TALISAY	Edith B. Cahilap	EPS		
TANJAY	Lyndon M. Ramirez	SDO SHS Coordinator		
	Elly Mar R. Canolas	HT-II		
TOLEDO	Geraldo D. Laña	EPS		

**List of Guests and Sponsors**

<b>Name</b>	<b>Position</b>	<b>Company</b>
Shem Jose W. Garcia	Executive Director	Vivant Foundation Inc.
Benjamin Y. Chiu	Managing Supervisor	Vivant Foundation Inc.
Lycille Cielo A. Uy	Staff	Vivant Foundation Inc.
Lee L. Damaolao	Staff	Vivant Foundation Inc.
Cherrelyn Abayle	Staff	Vivant Foundation Inc.
Liberty A. Pinili	Staff	Vivant Foundation Inc.
Chuck G. Orillanida	Staff	Vivant Foundation Inc.
Georgette Dacer	Staff	Vivant Foundation Inc.

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Noted by:

  
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CLMD Chief



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**RSTF 2023 Assignment of EPS Math and Science**


<b>Event</b>	<b>Assigned EPS (Math &amp;/or Science)</b>	<b>Program/Materials</b>	<b>Assigned EPS (Math &amp;/or Science)</b>
Life Science Contest	SDO Bogo (Judges) SDO Bais (Finalist)  <i>Venue: Executive Hall</i>	Registration and billeting  <i>Venue: (Ecotech Lobby)</i>	SDO Cebu Province SDO Danao SDO Toledo SDO Dumaguete
Physical Science Contest	SDO Lapu-Lapu (Judges) SDO Carcar (Finalist)  <i>Venue: New Dining Hall</i>	Opening Program  <i>Venue: Pavilion Hall</i>	SDO Canlaon SDO Tanjay SDO Siquijor
RIM Contest	SDO Cebu City (Judges) SDO Bayawan (Finalist)  <i>Venue: Dining Annex</i>	Display Board Posting and Cutting of Ribbon  <i>Venue: Hall way</i>	SDO Negros Oriental SDO Tagbilaran
Innovation Expo	SDO Mandaue (Judges) SDO City of Naga (Finalist)  <i>Venue: Kamagong</i>	Certificates and Awards (Display)  <i>Venue: Pavilion Stage</i>	SDO Toledo SDO Dumaguete SDO Siquijor
Computational Science	ALL MATH EPS (9)  <i>Venue: Molave</i>	Closing Program  <i>Venue: Pavilion Hall</i>	SDO Canlaon SDO Tanjay

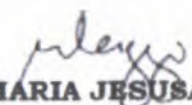


SIP Elem/Siyensikula/ Digituro	SDO Talisay (Judges) SDO Bohol SDO Guihulngan  <i>Venue: Pavilion Hall</i>	Tally Team  <i>Venue: Roving/ Moving</i>	SDO Bohol SDO Guihulngan
RSTF FINALISTS' MIXER		SDO Canlaon SDO Tanjay SDO Siquijor	

Note

- *For event in-charge, those who are assigned to the judges are responsible in all undertakings pertaining to program preliminaries, judges' introduction, judges' inquiries, concerns, tally sheet, food, materials, and collection/provision of manuscripts.*
- *For event in-charge, those who are assigned to finalists are responsible for the seating arrangement of the finalists and coaches, managing the slide decks presentation, moderating the Q and A, and managing the timer.*

Prepared by:  **DR. BRYANT C. ACAR**  
R7 EPS Science

Noted by:  **DR. MARIA JESUSA C. DESPOJO**  
CLMD Chief



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**RSTF 2023 PROGRAM MATRIX**

<b>Day 0 - November 27, 2023</b>	
1:00 pm	Program Management Team Briefing (EPS Science and Select EPS Math with RO7 EPS Science and Math)
3:00 pm	Registration of Qualified Participants Venue: Ecotech Entrance Hall
4:00 pm	Billeting
4:40 pm	Setting and Mounting of SIP Posters Venue: Ecotech covered Walk Rehearsal of SDO Representatives (banner bearer) Venue: Pavilion
6:00 pm	Distribution of Dinner
<b>Day 1 - November 28, 2023</b>	
7:00 am	Assembly Time Venue: Pavilion Attire: SDO T-Shirts (EPS and Coaches) Formal Attire (Learners)
8:00 am	<b>Opening Program</b> I. Preliminaries – National Anthem - AVP Doxology – AVP II. Welcome Message – Dr. Maria Jesusa C. Despojo, CLMD Chief III. Shout Out Video (20 SDOs) – RSTF We are Ready! IV. Message from the Assistant Regional Director- Atty Fiel Y. Almendra V. Promotional Video of the Sponsor – Vivant Foundations, Inc.

	<p>VI. Message from the Executive Director of Vivant Foundations Inc. – Mr. Shem Jose Garcia</p> <p>VII. Message from the Regional Director- Dr. Salustiano T. Jimenez</p> <p>VIII. Walk Through of the Program and Introduction of the BOJ – Dr. Bryant C. Acar, EPS Science</p> <p>IX. Message of Encouragement from the RO7 NSTF 2022 Winners</p> <p>X. Formal Opening of the RSTF 2023 – Dr. Salustiano T. Jimenez.</p>
9:00AM-10:00 AM	<b>Cutting of Ribbon of the Research Poster Exhibits and Open House</b>
10:00 AM -5:00 PM	<p><b>Start of the Competition</b></p> <p>A. Cluster 1 (Life Science) Venue: Executive Hall PMT: SDO Bogo (Judges) SDO Bais (Finalist)</p> <p>B. Cluster 2 (Physical Science) Venue: New Dining Hall PMT: SDO Tanjay (Judges) SDO Carcar (Finalist)</p> <p>C. Cluster 3 (Robotics &amp; Intelligent Machines) Venue: Dining Annex PMT: SDO Cebu City (Judges) SDO Bayawan (Finalist)</p> <p>D. Cluster 4 (Math &amp; Computational Science) Venue: Molave PMT: Math SDO Cebu Province Math SDO Danao</p> <p>E. Cluster 5 (Innovation Project Expo) Venue: Kamagong PMT: SDO Mandaue (Judges) SDO City of Naga (Finalist)</p> <p>F. Cluster 6 (Sibol SIP Elementary; Siyensikula &amp; Digituro) Venue: Pavilion PMT: SDO Talisay (Judges) SDO Siquijor (Finalist)</p>

5:30-7:00 PM	<b>RSTF FINALISTS' MIXER</b> (Pavilion Hall)
<b>Day 2: November 29, 2023</b>	
8:00 AM-12:00 noon	Preliminaries Announcement of Top 5 Finalists Final Presentation, Judging and Recommendations of Projects Venue: Same in Day 2 Clustering
1:00-1:30 PM	Final Deliberation with the Judges Venue: Executive Hall Participants: Judges and RO 7 EPS Science and Math
1:30-3:30 PM	<b>Closing Program</b> I. Preliminaries – National Anthem - AVP Doxology – AVP II. Opening Remarks – Dr. Maria Jesusa C. Despojo, CLMD Chief III. Promotional Video of the Sponsor – Vivant Foundations, Inc. IV. Congratulatory Message – Mr. Jose Shem Garcia, CEO Vivant Foundations Inc. V. Congratulatory Message – Dr. Salustiano T. Jimenez, RO7 Regional Director VI. Announcement and Awarding of Winners: To Award: CLMD Chief, CEO of Vivant Foundations Inc, ARD and RD 1. Life Science – Chair BOJ 2. Physical Science – Chair BOJ 3. Robotics & Intelligent Machines – Chair BOJ 4. Innovation Expo – Chair BOJ 5. Sibol, Siyensikula & Digituro – Chair BOJ VII. Closing Remarks – Mr. Cesar A. Restauero Jr, RO 7 EPS Science VIII. Close Door Meeting with the Regional First Place Winners with National Competition (Students, coaches, EPSs and Judge Mentors)

Prepared by: **DR. BRYANT C. ACAR**  
R7 EPS Science

Noted by: **DR. MARIA JESUSA C. DESPOJO**  
CLMD Chief

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**MECHANICS FOR CONTEST PRESENTATION, SCORING AND POINT SYSTEM**

**A. Research Presentation of the Top 10**

1. **Venue Setup:** The finalists are advised to assemble in the designated room before 10:00 am on Day 1. The venue will be arranged as follows: a single long table for the judges with the chairman in the center, facing the audience. To the left of the judges, there will be another long table for the Technical Working Group (TWG). To the right of the judges, a space will be designated for the presenters, projector screen, and projector, along with a small table and chair for the laptop.
2. **Seating Arrangement:** Finalists and their coaches will be seated in the following order: Entry 1 at the first seat in front, followed by Entry 2, and so on. Any guests or audience members not associated with the finalists should be seated at the back of the room.
3. **Preliminaries.** On Day 1, the TWG will welcome everyone to the contest venue. Introduce the board of judges and read the Instruction for contest presentation. On Day 2, the TWG will start the contest with a Nationalistic song and prayer.
4. **Introduction:** The event in-charge will introduce each team by announcing the School Division Office (SDO), title, proponents, and coach.
5. **Presentation Materials:** Hard copies of research papers, forms, and logbooks will be provided to the judges before each presentation. The TWG will label the folders according to the number assigned in the Regional Memo, following the alphabetical order of SDOs. These documents shall be given before the start of each presentation.
6. **Slide Deck/Video Presentation:** The entry coach will control and manage the slide deck/video using their laptop. The slide deck should contain a maximum of 12 slides, including a title page, rationale, problems/objectives/hypothesis, methods, tabular or graphical results, pictures/certifications, and conclusion. Use 18-24 font size and Bookman Old font style while using the provided template.

7. **Presentation Time:** Each entry will have 10 minutes to present their research, followed by a 5-minute question and answer session with a designated judge. Each judge will question one entry. A bell will signal the start and end of the presentation and the Q&A.
8. For Physical Science, Robotics and Innovation categories that require presentation of the prototypes and models, the presentation is 5 minutes, demonstration of prototype is 5 minutes and Q&A is also 5 minutes.
9. **Smooth Transitions:** During the Q&A of one entry, the next entry should prepare their slide deck presentation in advance to ensure a smooth transition between presentations.
10. **Scoring Confidentiality:** All scores will be computed by the judges and kept confidential until the announcement time.

#### **B. Research Presentation of the Top 5**

1. **Announcement:** The Top 5 finalists will be announced on the morning of the final day of the competition by the chairman of the judges.
2. **Seating:** The Top 5 finalists should sit in front in the same order as announced by the chairman of the judges.
3. **Presentation Format:** The presentation will no longer require the use of slide decks. Finalists will have 3 minutes to provide a summary of their research through an oral presentation. A designated judge will be given 5 minutes to ask questions.
4. **Judges' Decision:** The results based on judges' decision are considered final and unappealable.

#### **C. Presentation of Siyensikula and Digituro**

1. **Venue Setup:** The setup of the venue will be like the Top 10 presentations, with a long table for judges and a space for presenters, a projector screen, and a projector with a table and chair for a laptop.
2. **Seating Arrangement:** Finalists and coaches should be seated in alphabetical order of the SDOs. Non-finalist guests or audience members should sit at the back.

3. Introduction: The event in-charge will introduce each team by announcing the SDO, title, proponents, and coach.
4. Presentation Flow: The presentation will consist of playing a video followed by a Q&A session with a designated judge.
5. Video Control: Finalists and coaches will be responsible for playing their own video.
6. Smooth Transitions: Just like the Top 10 presentations, during the Q&A of one entry, the next entry should prepare their video presentation in advance to facilitate a smooth transition.
7. Scoring and Results: Scoring and final computation will be conducted by the judges under the leadership of the chairman.
8. No Top 5 Presentation: There will be no additional final rounds or Top 5 presentations for Siyensikula and Digituro. The Top 5 will be announced during the awarding program.
9. Judges' Decision: The results based on judges' decision are considered final and unappealable.

#### **D. Poster Display and Presentation**

1. Poster Dimensions: For the SIP Tuklas and Sibol Contests, poster displays should be printed on tarpaulin with dimensions of 2.5 meters in height and 1 meter in width. Each corner of the tarpaulin should have eyelets and be tied with a plastic straw. All poster displays will be set up in the designated hallway of Ecotech Center, and coaches are encouraged to recycle display boards as learning materials.
2. Content: The project display should include the following elements: Title, Abstract, Background, Objectives, Significance, Methodology, Results and Discussion, Conclusion, Recommendations, Bibliography, and, if applicable, Photo Credits (including illustrations and graphics).
3. Innovation Expo Contest Display: The Innovation Expo Contest Display Board should also use tarpaulin with the same size dimensions. The content should include the following: Title, Introduction, Problem Statement, Solution/Innovation, Features and Specifications, Materials and Methods,

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Results and Discussion, Benefits, Visuals, Conclusions, Future Development, and Developer's Name.

4. Poster Exhibit: The poster exhibit will begin immediately after the opening program. One finalist should be present at the displayed poster to answer questions from guests until 10:00 AM. The rest of the finalists, coaches, and judges should assemble in the designated room for the Research Presentation.
5. Display Duration: Posters should remain displayed until the closing program and should be taken down after the event's conclusion.

#### **E. SCORING TOOL**

**Here are the judging criteria:**

<b>TUKLAS AND SIBOL</b>
<b>CREATIVE ABILITY (30 points)</b> Does the project show creative ability and originality in the: questions asked; approach to solving the problem; analysis & interpretation of the data?
<b>SCIENTIFIC THOUGHT (30 points)</b> Are the problems stated clearly? Was there a procedural plan for obtaining a solution? Are variables clearly recognized and defined?
<b>THOROUGHNESS (15 points)</b> How completely was the problem covered? How complete are the project notes?
<b>SKILLS (15 points)</b> Does the finalist/team have the required laboratory, computation, observational and design skills to obtain the supporting data?
<b>CLARITY (10 points)</b> How clearly does the finalist or team discuss his/her/their project and explain the purpose, procedure, and conclusions? How clearly is the data & results presented?

<b>INNOVATION PROJECT EXPO</b>
<b>ORIGINALITY AND CREATIVITY (25%)</b> This criterion assesses the uniqueness and innovation of the project.
<b>COMMUNITY CONNECTION &amp; IMPACT (20%)</b> This criterion evaluates how the innovation research benefits the community.
<b>MARKET ATTRACTIVENESS (15%)</b> This criterion examines the commercial viability of the innovation. It considers the potential market demand, scalability, and sustainability of the project.
<b>FUNCTIONALITY &amp; TECHNOLOGY VALIDATION (25%)</b> It assesses how well the innovation functions in real-world scenarios. Researchers should demonstrate evidence of successful testing, validation.

**PRESENTATION & PRODUCT PRESENTATION (15%)**

This criterion looks at how effectively the innovation and research are presented to the audience. Additionally, researchers' ability to communicate the innovation's key features, benefits, and impact in a compelling and engaging manner.

**SIYENSIKULA AND DIGITURO**

<b>Indicator</b>	<b>Description</b>
Engagement (10 pts)	Possess elements that can captivate and make the viewer interested in the videos. It has a "Wow" factor.
Illumination (20 pts)	The video was able to fully explain providing depth and width of the topic and content and made it easy to understand. It has comprehensive citation of references.
Creativity (10pts)	The video provided inventive and seamless approaches that can be used to teach the subject matter.
Difficulty (10pts)	The extent of the discussion was made at an advanced level with specific details and examples.

**F. POINT SYSTEM**

To determine the over-all winners, the following shall be considered:

Categories	Points System				
	1 <sup>st</sup> Place	2 <sup>nd</sup> Place	3 <sup>rd</sup> Place	4 <sup>th</sup> Place	5 <sup>th</sup> Place
Life Science Team	10	8	6	4	2
Life Science Individual	8	6	4	2	1
Physical Science Team	10	8	6	4	2
Physical Science Individual	8	6	4	2	1
RIM Team	10	8	6	4	2
RIM Individual	8	6	4	2	1
Innovation Expo Team	8	6	4	2	1
Innovation Expo Individual	6	5	4	2	1
Computational Science Team	10	8	6	4	2
Computational Science Individual	8	6	4	2	1
Sibol SIP Elem	10	8	6	4	2
Siyensikula	5	4	3	2	1
Digituro	5	4	3	2	1
Best in Shoutout Video	5	-	-	-	-

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CLMD Chief