



Republic of the Philippines
Department of Education
REGION VIII - EASTERN VISAYAS

August 24, 2022

REGIONAL MEMORANDUM

No. **934**, s. 2022

WINNERS IN THE 2022 VIRTUAL NATIONAL SCIENCE AND TECHNOLOGY FAIR (NSTF)

To: Schools Division Superintendents
School Heads
All Others Concerned

1. Relative to the attached Memorandum DM-OUCI-2022-288, this Office, through the Curriculum and Learning Management Division, announces the Winners in the 2022 Virtual National Science and Technology Fair (NSTF) conducted last August 1 – 5, 2022.
2. From the eleven (11) NSTF Contest-categories, Region VIII bagged three (3) First Places, namely: Siyensikula, Likha – Life Science (Individual Category), and Likha – Life Science (Team Category). See enclosures for the details.
3. Appreciation is highly accorded to all the winners, learners, teacher-coaches, division coordinators, and other participants for their active involvement and support to these activities.
4. Immediate dissemination of this Memorandum is desired.

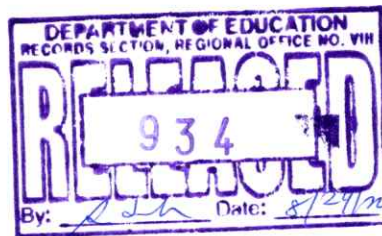

EVELYN R. FETALVERO, CESO IV
Regional Director

Enclosures: As stated
References: As stated

To be indicated in the Perpetual Index under the following subjects:

FAIR MATHEMATICS NSTF RSTMF SCIENCE

CLMD-RRT



Enclosure No. 1 of RM No. 934 s. 2022**REGION VIII WINNERS IN THE 2022 VIRTUAL NATIONAL SCIENCE AND TECHNOLOGY FAIR (NSTF)****Siyensikula – A STEM Video Making Competition**

RANK	LEARNER	COACH	SCHOOL	DIVISION
1	Dirk C. Porteza	Shaira T. Linalcoso and Roselle V. Norona	Dolores National High School	Eastern Samar

LIKHA - Life Science (Individual)

RANK	LEARNER	COACH	SCHOOL	DIVISION
1	Gasa Mutya A. Bande	Florencio John Saladaga	Visayas State University – Integrated High School	Baybay City

LIKHA - Life Science (Team)

RANK	LEARNER	COACH	SCHOOL	DIVISION
1	Mikaela B. Lina, Denheart O. Andrade, and Marvin A. Mangogtong	Gerald M. Rivera	Visayas State University – Integrated High School	Baybay City



Republic of the Philippines
Department of Education

OFFICE OF THE UNDERSECRETARY FOR CURRICULUM AND INSTRUCTION

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MEMORANDUM
DM-OUCI- 2022- 288

FOR : **MINISTER, MBHTE-BARMM
REGIONAL DIRECTORS**

FROM : **JOSE ERNESTO GAVIOLA**
Undersecretary

SUBJECT : **WINNERS IN THE 2022 VIRTUAL NATIONAL SCIENCE AND
TECHNOLOGY FAIR (NSTF)**

DATE : August 13, 2022

This office announces the winners of the various competitions of the 2022 Virtual National Science and Technology Fair (NSTF) held last August 1- August 5, 2022. Likewise, appreciation is also accorded to all the other entries as well as their teacher-coaches. Their active participation and support contributed to the successful holding of the virtual activity.

SIYENSİKULA - A STEM Video Making Competition					
Rank	Title of Entry	Name	School	Region	Coach/es
1	The God Equation	Dirk C. Porteza	Dolores National High School	VIII	Shaira T. Linalcoso Roselle V. Norona
2	Demystifying Nitrogen Cycle	Helianne Christopher Obate	Ramon Teves Pastor MD Sci HS	VII	Tarra Angela Y. Garsula
3	The Future of Plastic	Christian Daniel S. Binag	Isabela National High School	II	Christian Paul R. Gangan

SIYENSİKULA PEER TO PEER REVIEW WINNERS				
Title of Entry	Name	School	Region	Coach/es
CRISPR-CAS 9	Zyanne Vernice C. Consador	Pasig City Science High School	NCR	Nico S. Risos
Protein Synthesis	James Harold B. Mananquil	Benigno "Ninoy" S. Aquino High School	NCR	Leonilyn A. Cortes
God Particle	Sean C. Fernandez	Luis Palad Integrated High School	4A	Marvin J. Rosales Reymann Kristian F. Zubieta

STEMTOKPERIMENTS - JUNIOR HIGH SCHOOL

1/F Bonifacio Building, DepEd Complex, Meralco Avenue, Pasig City, Philippines
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OKD
2/17/22

Rank	Title of Entry	Name	School	Region	Coach
1	Static Electricity	Joshua P. Jundit	Cabantian National High School	XI	Gidelynne Love L. Lobino
2	Lava Lamp Magic	Lian Chariz V. Evangelista	Carlos F. Gonzales High School	III	Jayson B. Eugelio
3	BILANGAN NG BULA (An Amazing Biochemical Process of Photosynthesis)	Laura Angela T. Albarillo	Dagupan City national High School	I	Jennifer D. De Vera

STEMTOKPERIMENTS - SENIOR HIGH SCHOOL

Rank	Title Of Entry	Name	School	Region	Coach
1	Pinaikot-ikot lang: Convection Current	Cheyn Everest A. Ban	Capiz National High School	VI	Michelle G. Dordas
2	Raise Your Glass Experiment	Sophia F. Lindawan	Solano High School	II	Karen Ann C. Gregorio
3	Childhood Invisible Ink Experiment: A Play on Acids and Bases	Sofia Gabrielle A. Veluz	Marikina Science High School	NCR	Hazel Castro

LIKHA - LIFE SCIENCE INDIVIDUAL CATEGORY

Rank	Title of Entry	Name	School	Region	Coach
1	DNA Barcoding of Aquilaria Seedlings: to Support Sustainable Agarwood Production and Conservation of Endangered Philippine Aquilaria species in Abuyog, Leyte	Gasa Mutya A. Bande	Visayas State University - Integrated High School	VIII	Florencio John Saladaga
2	Antiviral Activity of Psidium guajava Crude Aqueous Extract Against SARS-COV-2 Pseudovirus Delta Variant - A Feasibility Study	Patrick Dominick B. Palmes	Iloilo National High School	VI	Branche A. Sumido
3	GCMS Profiling, Chemical Characterization and Spatial Pattern of Lantana camara L. (Baho-baho) Plant Extract as a Control Agent Against Asian Corn Borer	Junah Grace L. Castillo	General Santos City National High School	XII	Pelmar B. Fernandez

LIKHA - PHYSICAL SCIENCE INDIVIDUAL CATEGORY

Rank	Title of Entry	Name	School	Region	Coach/es
1	Chitosan-Loaded Bacterial Cellulose Cubes (BCC) Co-precipitated with Fe ₃ O ₄ Magnetic Nanoparticles as Novel Reusable Biosorbent Material for	Jesusa Grace Calingasan	Regional Science High School for MIMAROPA - Bansud	IV-B	Romnick M. Ureta

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	Oil and Arsenic in Aqueous Solution		National High School		
2	DrainTrash: Waste Separator and Water Filtration Prototype for Drainage System	Kent Sandy A. Daniel	City of Naga Integrated Center for Science, Technology, Culture and Arts	VII	Leonifel D. Alforque
3	N-CQDs vs. S-CQDs: Characterization and Detection of Mercury	Primchelle Rose B. Lanario	Capiz National High School	VI	Maria Fatima S. Bolido

LIKHA – ROBOTICS AND INTELLIGENT MACHINES INDIVIDUAL CATEGORY

Rank	Title of Entry	Name	School	Region	Coach/es
1	Data-driven Agrobot Nexus Utility Model (DANUM): A multifunctional Wastewater Web	Yuri Andre M. Custodio	Bansud National High School-Regional Science High School for MIMAROPA	IV-B	Alexis C. Albo
2	Arduino-Based Water Quality Monitoring Laboratory with Animal Tracking System Using Wireless Sensor Network Technology	Bernard Lian G. Lukban	Vinzons Pilot High School	V	Jayson N. Bargo Richard V. Porton
3	SALTest & SALTrack: An Arduino-based Portable Microplastic Particle	Junjeg P. Moster	Mainit National High School	CARAGA	Engr. Val Jorje Stanley L. Basil

LIKHA – MATHEMATICS AND COMPUTATIONAL SCIENCE INDIVIDUAL CATEGORY

Rank	Title of Entry	Name	School	Region	Coach/es
1	Limitless Intersections: Establishing an Upper Bound for the Number of Intersections Formed by a Configuration of a Finite Set of Coplanar Convex Polygons and Circles	Citrei Kim K. Padayao	Quezon City Science High School	NCR	Arnaldo I. Chua
2	Predicting Groundwater Quality in Agusan Del Norte Province Using Machine Learning Model	Jhon Florence M. Juab	Cabadbaran City National High School	CARAGA	Evelyn B. Ballenas
3	Let There Be Light: A Mathematical Modeling with Street Lights	Ysabelle Beatrice U. Catinan	Iloilo National High School	VI	Kim Jay C. Encio

LIKHA – LIFE SCIENCE TEAM CATEGORY

Rank	Title of Entry	Name	School	Region	Coach
1	Efficacy Testing of Kitchen-Waste Soil Amendments on Growth and Performance of Pechay (Brassica rapa) Grown in Acid Soil	Mikaela B. Lina Denheart O. Andrade Marvin A. Mangogtong	Visayas State University - Integrated High School	VIII	Gerald M. Rivera
2	ANI: The Utilization of Isolated Entomopathogenic Fungi Mycoinsectide as a Natural Pest Control Against Rice Pests	Zachari Aaron Y. Quiambao Alexa Rey D. Guanlao Louise Anne M. Moloa	Angeles City Science High School	III	Lolita G. Bautista

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3	Utilizing Cacao Wastes from Seed Pericarp as Potential Blood Glucose	Ishah Nicholei L. Bautista James Zueller C. Plaza Nathaniel M. Leopoldo	Tabon M. Estrella National High School	CARAGA	Rhea Teresa S. Suba-an
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LIKHA - PHYSICAL SCIENCE TEAM CATEGORY

Rank	Title of Entry	Names	School	Region	Coach/es
1	Sol-gel Synthesis and in vitro Study of Bioglass derived from Perna viridis (Green Mussel) Shells and Bambusa blumeana (Bamboo) Leaf Ash for Bone Tissue Regeneration	Frances Gabrielle S. Bingcang Jessica Loreen L. Yabut Hart Gabrielle T. Ong	Angeles City Science High School	III	Lolita Bautista
2	Recovery of Phosphate from Swine Wastewater using Canarium ovatum (Pili) Shell Magnetic Biochar and its Potential as Phosphate-Based Soil Conditioner	Jude Aris B. Responde Danica C. Palma Asley B. Pacinos	Vinzons Pilot High School	V	Sarah Kimberly F. La Madrid
3	Scanning Electron Microscopy (SEM), FT-IR Profile, and Thermogravimetric and Differential Thermal Analysis (TG-DTA) of Azolla Carboxymethyl Cellulose/Polyvinyl Alcohol (aCMC/PVA) Film and Its Enhanced Angiogenesis via CAM Assay as a Model for Potential Biocompatible Scaffold Material for Tissue Engineering	Railyn Joy S. Macalalad Christzel Joh B. Pacaul Renielle Nicole H. Lacdan	Regional Science High School for Region IVB-MIMAROPA - Bansud National High School	IV-B	Romnick M. Ureta and Baby Alessa P. Guimera

LIKHA - ROBOTICS AND INTELLIGENT MACHINES TEAM CATEGORY

Rank	Title of Entry	Names	School	Region	Coach
1	ReMSea: Removal of Microplastic In Seawater Using Magnetic Carbon Nanotube-Embedded Robot	Jadriel Mirah C. Taday Bienvenido III L. Mendoza Hannah Elloria V. Lopez	Quezon City Science High School	NCR	Genevieve C. Vasquez
2	PoBi: A Portable Spectrometer for Analyzing Pyrethroid Bioaccumulation in Mori Fish (Cyprinus carpio)	Lin André Jan T. Vitin Manela Joy S. Labuguen Jamicah T. Lacambra	Cagayan National High School-Senior High	II	Mark Kenneth C. Sumbillo
3	SOTERIA: An Arduino-based Serpentbot with X4M300 UWB-Radar as a Rescue Bot	Nyll Elijah C. Del Valle Margarette Kiel S. Gordo Adrienne U. Palomar	San Pablo City Science Integrated HS	IV-A	Franz Kevin V. Manalo

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LIKHA – MATHEMATICS AND COMPUTATION SCIENCE TEAM CATEGORY					
Rank	Title of Entry	Names	School	Region	Coach
1	Modelling the Dynamics of Illicit Drugs Use with Various Awareness Level	Daryl Dave J. Bazarte Christine Jane V. Suello Allyza Mae B. Delfin	Valencia National High School	X	Jan Joe S. Carcellar
2	Fantastic Patterns: The Secrets of Textile Arts	Ailyn G. Castro Chrystal Mhae B. Ferrer Precious Cerina S. Castro	Maliwalo National High School	III	Khimberly T. Del Mar
3	Optimizing Mangrove Coastal Defense Using a Sustainable Mangrove Enclosure (SME): a DRRM Project.	Mary Angela DC Natlal Shamelah Adriane F. Agriam Easter Fleur D. Solis	Iloilo National High School	VI	Michelle P. Bales

The winners will receive digital certificates and cash prizes.

For immediate dissemination.