



Republic of the Philippines
Department of Education
REGION X – NORTHERN MINDANAO
SCHOOLS DIVISION OF EL SALVADOR CITY

Office of the Schools Division Superintendent

21 November 2023

DIVISION MEMORANDUM
No. 511, s. 2023

**ANNOUNCEMENT OF WINNERS FOR THE
DIVISION SCIENCE AND TECHNOLOGY FAIR 2023**

To: Education Program Supervisors
Elementary School Heads
Secondary School Heads
Teachers
All Others Concerned

1. In reference to Division Memorandum 440 s. 2023, re: *Division Science and Technology Fair (DSTF) 2023*, the Office extends its warmest congratulations to the school heads, science coordinators and the technical working group of the recently concluded Division Science and Technology Fair 2023.

2. Likewise, the Office extends its sincere recognition and appreciation to the winners:

Life Science: Individual

	Title	School	Coach	Learners
1st	Feasibility of Dried Corn Cobs and Animal Manure as Organic Fertilizers: A Sustainable and Economical Solution in Agriculture	Cogon NHS	Elerfe Jannine B. Kadile	Christian Kyle O. Bonggo
2nd	Hibiscus rosa-sinensis as an Alternative Staining Agent for Bacteria in Water Sample from Zone 2, Lower, Barangay Hinigdaan Spillway	Hinigdaan NHS	Rheza Mae P. Ebal	Paul Adriane M. Rances
3rd	Musa Sapientum Dishwasher (Banana Peelings Dishwashing Liquid)	El Salvador City NHS	Lleranie R. Tahir	Nathalee Faith G. Lelina

Life Science: Team

	Title	School	Coach	Learners
1st	Mechanical Fly Trap and Solution Using Fermented Coconut Water	San Francisco de Asis NHS	Christian Delle C. Ragmac	1. Dal Ritch Rances 2. Jahna Marie Villalobos 3. Lindsay O. Maestre
2nd	The influence of genetics on the inheritance of human traits among Grade-12 STEM Learners at Molugan National High School	Molugan NHS	Liberty E. Taneo	1. Francis Charlene Bagares, 2. Grece Mae Quibol, 3. Kisha Marie Antigua



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Physical Science: Individual

	Title	School	Coach	Learners
1st	Upcycling Discarded Face Masks into Superhydrophobic Polypropylene Sorbent for Effective Oil Spill Cleanup	El Salvador City NHS	Therese Angeli M. Romasanta	Harris Kim B. Palasan
2nd	HAND ROBOT FOR DISABLED INDIVIDUALS: A PROMISING ASSISTIVE TECHNOLOGY	Molugan NHS	Liberty E. Taneo	John Paul M. Beliganio
3rd	THE POTENTIAL OF MARANG (ARTOCARPUS ODORATISSIMUS) SEEDS AS A SUSTAINABLE SOURCE FOR ALTERNATIVE FLOUR PRODUCTION	Molugan NHS	Ria Lou L. Malto	Anna Serena Venice Eulatriz

Physical Science: Team

	Title	School	Coach	Learners
1st	UTILIZING CORN HUSK IN MAKING PLANTABLE PAPER BAG WITH EMBEDDED VEGETABLE SEEDS	Cogon NHS	Elerfe Jannine B. Kadile	1. Dennis A. Buna 2. Janrey T. Dinorog 3. June Earl L. Mayo-an
2nd	IMPROVISED VACUUM CLEANER	Molugan NHS	Ria Lou L. Malto	1. Jachille V. Alba 2. Ruxylyn Jade G. Casiño 3. Kristina A. Contorno
3rd	Assessing the Viability of Hillside Wind Turbines Utilizing a Hybrid Monopile Foundation	Hinigdaan NHS	Merogim P. Mugot	1. Cielo B. Erestingcol 2. Amie Jean O. Taganas 3. Aibie A. Bayantong

Mathematics and Computational Science: Individual

	Title	School	Coach	Learners
1st	UNLOCKING THE ENIGMA: THE MAGIC SUM OF MAGIC SQUARE OF CONSECUTIVE EVEN NUMBERS	Molugan NHS	James Rey G. Saludaes	Kim Bryan C. Balasabas
2nd	Exploring Sudoku-Based Algorithm as an Efficient Approach in Crafting Teachers' Load and Class Program	Cogon NHS	Liza May Duran-Nob and Jun Mark Rey O. Nob	Ma. Celeste Rose C. Cayadong,
3rd	Free Surface Problems and M-STAR CFD for hydraulics through Isogeometric Analysis	Hinigdaan NHS	Merogim P. Mugot	Kate Zyra M. Oco



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Mathematics and Computational Science: Team

1st	Proposed Linear Programming (LP) Model for Shortest-Route Problem with Roundtrip: An Application to Minimizing Time Travel in Rescue Operations	Cogon NHS	Jun Mark Rey O. Nob	1. Niña Lujille G. Oco 2. Rhym B. Menirva 3. Mayrienne Danielle A. Solis
2nd	OPTIMIZING THE SOLUTION OF QUADRATIC EQUATION: ADVANTAGE AND DISADVANTAGE OF ITS DIFFERENT METHOD	Molugan NHS	James Rey G. Saludaes	1. Kharylle Sigrid Justienne C. Laid 2. Angelou A. Damasing 3. Rey Edward S. Cañon
3rd	Utilizing Isogeometric Analysis for the Numerical Assessment of Imperfections in Miura Ori Sandwich Cores	Hinigdaan NHS	Merogim P. Mugot	1. Richard B. Erestingcol 2. Lovely Rose A. Batutay 3. Angel Mae A. Magnetico

Robotics and Intelligent Machines: Individual

	Title	School	Coach	Learners
1st	Solar-Powered Unmanned Ground Mower with Obstacle Avoidance	Cogon NHS	Liza May Duran-Nob	Luigie T. Bongolto
2nd	AUTOMATIC CLOTHING LINE RETRIEVAL SYSTEM USING ARDUINO UNO	Molugan NHS	Liberty E. Taneo	Zoie S. Cañon
3rd	Effects of Student Engagement Towards Science in a Remotely Operated Solar Powered Mobile Metal Detector Robot	Hinigdaan NHS	Roderick Balili	Honeylove Fabella

Robotics and Intelligent Machines: Team

	Title	School	Coach	Learners
1st	Waxbot: An Automatic Floor – Waxing Robot	Cogon NHS	Clember Lei Abasula	1. Larwin B. Pangan 2. Stanly B. Zarate 3. Stephen Ely I. Tinoy
2nd	SILENT GUARD ALERT SYSTEM USING ARDUINO UNO	Molugan NHS	Liberty E. Taneo	1. Sarah Mae O. Salvo 2. Shara Shane V. Ong 3. Carlos Immanuel G. Biñas
3rd	PREFABRICATED ROBOTS AND “BLACK BOXES”: A NEW MAKER MOVEMENT IN EDUCATIONAL ROBOTICS	Hinigdaan NHS	Roderick Balili	1. Airene Bongolto- 2. Jhanerie Lorono Magnetico



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Science Innovation Expo: Individual

	Title	School	Coach	Learners
1st	Solar Powered GSM-based Automatic Water Pump	Cogon NHS	Sherwin D. Oranio	Jess Benedict D. Jamis
2nd	AQUASAGE: UNLEASHING INNOVATION IN THE SMART WATER DISPENSER REVOLUTION	Molugan NHS	Liberty E. Taneo	John Clyde F. Eran
3rd	Utilizing Scaled Model Experiments in the Examination and Development of Offshore Wind Turbine Systems	Hinigdaan NHS	Merogim P. Mugot	Reggie R. Salvador

Science Innovation Expo: Team

	Title	School	Coach	Learners
1st	Development of a Battery-Powered Tiller Machine with Corn Seeder	Cogon NHS	Liza May Duran-Nob	1. Angel May P. Cape 2. Anna Michaela B. Fajardo 3. Karylle B. Ferrater
2nd	Innovative and Cost-Effective Egg Incubator Prototype for Balut and Poultry Farming	Cogon NHS	Phoebe Joy M. Pacut-Lopez	1. Menirva, Rheen B. 2. Gempisao, Michael Phelps D. 3. Lunio, Rheil Evans T.
3rd	Project Water Technology Re-Engineered (WATER): Bridging Technology and Ecology for Better Human Living	El Salvador City NHS	Quimberly G. Baspin	1. Shaina O. Santos 2. John Mark B. Besin 3. Joel D. Cababaras Jr.

3. All **first-place** winning entries are advised to submit the revised softcopies of the research papers on or before November 22, 2023.
4. This Office shall adhere to Equal Opportunity Principle (EOP) in the steps undertaken for this purpose. Hence, all decisions and actions shall be based on guidelines set forth, with no discrimination on the account of age, gender, identity, sexual orientation, civil status, disability, religion, ethnicity or political affiliation.
5. Immediate and wide dissemination of this memorandum is desired.

RANDOLPH B. TORTOLA
Schools Division Superintendent

Attach: As Stated
To be indicated in the Perpetual Index
Under DSTF
CID/ mjac



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