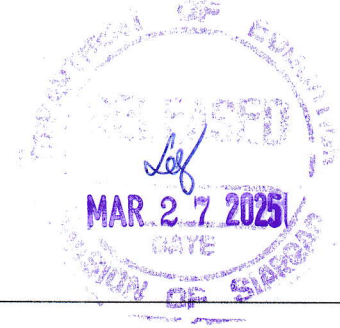




Republic of the Philippines
Department of Education
CARAGA REGION
SCHOOLS DIVISION OF SIARGAO



Office of the Schools Division
Superintendent

March 24, 2025

DIVISION MEMORANDUM

No. **03-109** s. 2025

Division STEMAZING and STEM Innovation Expo 2025

To: Asst. Schools Division Superintendent
Chief of Divisions
Section/Unit Heads
Education Program Supervisors
District Supervisors / In Charge
Secondary School Principals/School Heads
Others Concerned

1. The Department of Education (DepEd) Siargao Division, through the Curriculum Implementation Division (CID), shall conduct STEMAZING particularly **STEM Processes and Practices Exhibition** at the **Division Training Center on March 28, 2025, 1:00 pm.**
2. STEMAZING allows learner-participants to apply science and mathematics skills to solve problems that have local, national and global impact. It allows them to become problem solvers by addressing social, scientific and environmental issues through the application of 21st century skills. The participants will be presenting **oral and written proposed solutions** to a given scenario.
3. Participants in STEM Processes and Practices Exhibition are Siargao National Science High School, General Luna National High School and Del Carmen NHS.
4. Innovation Expo aims to recognize the most creative and market viable project addressing major issues in food safety, water conservation, renewable energy, cyber security, road safety, health, disaster mitigation, agriculture, and environment. The contest on Innovation Expo was done online last March 21, 2025.
5. Winners of Innovation Expo will be awarded on March 28, 2025, 1:30 pm at the same venue. They include the following:

Team Category

First Place (1st): AI-Powered Detection System for Response and Harvest Capacity
Researchers: Eric A. Jovita, Kyra Nicole G. Imperial, Necoleigh Kates R. Salavaloz
Coach: Jean Claire E. Sentones
School: Sirago National Science High School

Second Place (2nd): Smart Coastal Tool: Tidal and Wave-height Measuring Device with SMS Alerts of Real-Time Information Using Orange Pi 3b
Researchers: Dale Arwin M. Abel, Jan Aubrey D. Trazares, Delbert T. Untalan Jr.
Coach: Suzette Ann A. Mantilla
School: Siargao National Science High School



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DepEd Siargao



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Third Place (3rd): Giant Swamp Taro as Alternative Livestock Feed

Researchers: Laurence Jay S. Lasala , Maryjen B. Lavarez , Al Jhon Rex R. Oliva

Coach: Maricar Feb M. Navarce

School: Del Carmen NHS

Individual Category:

First Place (1st): Utilization of Bamboo and Carabao Manure as a Precursor for Carabao Activation in Absorbing Carbon Dioxide in the Exhaust Filter

Researcher: Reniel D. Minguita

Coach: Jean Claire E. Sentones

School: Siargao National Science High School

Second Place (2nd): Portable Desalination Device: Turning Contaminated Water into Portable Water with Built-in Mineral Filters

Researcher: Johnmark A. Reyes

Coach: Jean Claire E. Sentonas

School: Siargao National Science High School

Third Place (3rd): Bioplastic: A Sustainable Solution for a Plastic Polluted World

Researcher: Cris Jahhann Jared D. Cinco

Coach: Kenneth Y. Petallo

School: Del Carmen NHS

6. **Environment friendly reminders:** a. Participants should bring their own water in an eco-bottle. b. Food/snacks should be placed in an eco-friendly container to avoid garbage.
7. Facilitator of STEMAZING is Jhondel P. Barangan of Union NHS.
8. Food, snacks and travelling expenses incurred by the student participants and coaches shall be charged against school MOOE/SEF subject to the usual accounting and auditing rules and regulations.
9. Immediate dissemination of and compliance with this Memorandum is desired.

MANUEL O. CABERTE

Assistant Schools Division Superintendent
Officer-in-Charge
Office of the Schools Division Superintendent

Reference: RM 0266, s. 2025, RM 0288, s. 2025

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

STEMAZING Innovation Expo

CID/rdr 2025



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