



Republic of the Philippines
Department of Education
REGION VII - CENTRAL VISAYAS
DIVISION OF CITY SCHOOLS - TAGBILARAN CITY

**Office of the Schools Division
Superintendent**

October 7, 2025

DIVISION MEMORANDUM
No.726, s. 2025

**ANNOUNCING THE WINNERS OF DIVISION SCIENCE, MATHEMATICS
AND TECHNOLOGY FAIR 2025**

To: All Public Elementary and Secondary School Heads
All Private Elementary and Secondary School Heads
All Others Concerned

1. In line with the recently concluded **Division Science, Mathematics and Technology Fair 2025 last October 2-3, 2025, at the Tagbilaran City Hall Atrium, Tagbilaran City**, this Office through the Curriculum and Implementation Division (CID) would like to announce the following winners:

SIBOL ELEMENTARY CATEGORY

1st Place: Mansasa Elementary School

**Special Award: Best in Environmental Relevance, Best in Oral Presentation,
Best in Research Poster**

Mahogany (*Swietenia macrophylla*) Leaf Decoction as a Natural Herbicide for Weed Control

- Participants: Yham Vincent C. Inting, Hannah Rose P. Bon, Isabela Nena E. Guerrero
- Teacher-coach: Marielle Allosada

2nd Place: Manga Elementary School

Special Award: Best in Practical Application

EFFECTIVENESS OF TERMIGUARD AS AN ECO-FRIENDLY VARNISH AND TERMICIDAL AGENT

- Participants: Ashley Eve D. Actub, John Harry T. Degamo, Ronan Gabriel Fudaranan
- Teacher-coach: Fritzie R. Corpus

3rd Place: Tagbilaran City Central Elementary School – Special Program in Science

Special Award: Best in Waste Management Innovation, Outstanding Science Communicator

ECO-WARRIORS: A Digital Tool for Monitoring Uncollected Garbage Along School Routes: A Science Investigatory Project

- Participants: Laum Leben B. Mende, Pearl Alexa B. Real, Kassandra Jeska A. Dolino
- Teacher-coach: Maria Hazel C. Beldoro

+ Booy Elementary School

Special Award: Best in Sustainable Solution

COMBINING DAPAW SHELLS AND EGGSHELLS AS A POTENTIAL FERTILIZER

- Participants: Elishua Dermont A. Abejero, Arianna Riley S. Acero, Nathaniel Dhemel C. Alvarado
- Teacher-coach: Romeo John B. Balon

✦ **Cogon Elementary School**

Special Award: Best in Use of Indigenous Materials, Most Promising Science Leader Award

"The Potential of Sabah Snake Grass (Clinacanthus nutans) Extract and Seawater as Termite Nymphs Control Agent"

- Participants: Chloe Alcherie P. Butlig, Kenna Mae C. Madria, Timothy T. Orilla
- Teacher-coach: Rosemarie A. Quiñal

✦ **Dao Elementary School**

Special Award: Best in Health and Wellness Innovation

BANANA (MUSA ACUMINATA) PEEL EXTRACT AND DILUTED CALAMANSI (CITROFORTUNELLA MICROCARPA) MIXTURE AS AN ALTERNATIVE SKIN MOISTURIZER

- Participants: Abbel Nathan A. Dano, Kayle Jaz L. Laxinto, Pryme Jade L. Tagacanao
- Teacher-coach: Josephine Acedo

✦ **Booy South Elementary School**

Special Award: Best in Originality of Idea

Comparative Study on the Oil Absorptive Capacity of Taro (Colocasia esculenta) Leaves and Banana (Musa spp.) Leaves for Oil Spill Cleanup

- Participants: Erich Praise S. Delos Reyes, Niño Rummel M. Eroy, Zeus B. Mendoza
- Teacher-coach: Maria Madena C. Simbit

✦ **City East Elementary School**

Special Award: Best in Climate Change Awareness

DIY Bioplastic

- Participants: Mitch Andrae B. Bautista, Nineth Avril C. Gumera, Princess Madisson E. Tesorio
- Teacher-coach: Jessa C. Estorgio

✦ **Dampas Elementary School**

Special Award: Best in Creativity and Resourcefulness

THE FEASIBILITY OF MAKING HANDMADE PAPER OUT OF PAPAYA (Carica papaya) LEAVES

- Participants: Germaine Fermo, Queenie Sy, Divine Jodie Villanueva
- Teacher-coach: Cindy Clemen

✦ **San Isidro Elementary School**

Special Award: Best in Agriculture/Food Security Study

Rapid Multiplication Approach of Purple Yam (Dioscorea alata Linn.) Using Leaf-Bud Cuttings: A Sustainable Approach

- Participants: Jeanette Stephanie E. Ramos, Jemima Jannes S. Ighot, Jhamaica Iri T. Gordillo
- Teacher-coach: Pablita E. Cangas

✦ **Taloto Elementary School**

Special Award: Best in Problem-Solving Approach

Teacher's Perception on the Usability of Eggshells and Cassava (Manihot Esculenta) as an Alternative Chalk

- Participants: Allyza Joice Paldo, Khenie Drey J. Pilongo, Zach Immanuel B. Cajilog
- Teacher-coach: Jane L. Lagare

✦ **Ubujan Elementary School**

Special Award: Best in Abstract Writing

The Effectiveness of Pineapple Peel Extract as an Alternative Floor Cleaner

- Participants: Carlos Emmanuel G. Geraldес, Keith Rєxvian D. Maglahus, Lance Chiño G. Bacog
- Teacher-coach: Liza C. Indoyon

✦ **Tiptip Elementary School**

Special Award: Best in Water Conservation Project

THE WATER PURIFIER (FILTRATION)

- Participants: Matthew Rexi G. Quisora, Shayne Louise P. Rumuga, Trisha V. Huit
- Teacher-coach: Hazel Torillo

✦ **Tagbilaran City Central Elementary School – Special Program in Science**

Special Award: Best in Technology Integration

SOLAR ENERGY: DEMONSTRATING THE PHOTOVOLTAIC EFFECT FOR A SUSTAINABLE FUTURE

- Participants: Keiro Leandro A. Cubar, Jesry Frel T. Echalico, Titus Xander V. Sevilla
- Teacher-coach: Maria Hazel C. Beldoro

✦ **Tagbilaran City Central Elementary School – Special Program in Science**

Special Award: Best in Community Impact

“Making an Automatic Retractable Clothesline System Out of Arduino”

- Participants: Jaynth Azzy V. Gonzaga, Cesar B. Auditor, Arnold Fel T. Echalico
- Teacher-coach: Maria Hazel C. Beldoro

DIGITURO SA SIYENSYA – TEACHER CATEGORY (ELEMENTARY)

1st Place: Ubujan Elementary School

- Teacher Participant: Gielyn F. Jakosalem

2nd Place: Holy Name University

- Teacher Participant: Niña Samantha C. Pajo

TUKLAS - JUNIOR AND SENIOR HIGH SCHOOL CATEGORY

I-A. PHYSICAL SCIENCE – INDIVIDUAL

1st Place: Tagbilaran City Science High School

Special Award: Most Innovative Physical Science Project

SUGARCANE (Saccharum officinarum) BAGASSE PAPER BAG USING ANTIPOLLO TREE (Artocarpus blancoi) SAP AS WATER-RESISTANT COATING

- Participant: Ma. Wendeli A. Cabahug
- Teacher-coach: Anamie T. Galves

2nd Place: Dr. Cecilio Putong National High School – SHS

Special Award: Best in Scientific Creativity

MAHOGANY (SWIETENIA MACROPHYLLA) BARK FIBERS AS AN ALTERNATIVE SOURCE FOR PAPER BAG INNOVATION

- Participant: Ronah Mae D. Bañados
- Teacher-coach: Rachel B. Mende

3rd Place: Dr. Cecilio Putong National High School – SHS

Special Award: Best in Sustainable Science Project

THE ACIDIFYING EFFECT OF BAMBOO LEAF (BAMBUSA VULGARIS) EXTRACT ON SEAWATER PH

- Participant: Niña Lorainne Solina D. Cabais
- Teacher-coach: Rachel B. Mende

4th Place: Cogon National High School

Special Award: Best in Theoretical Application

BEYOND THE BIN: REPURPOSING COGON GRASS (IMPERATA CYLINDRICA) AND WASTEPAPER INTO ECO-CARDBOARD PRODUCTION AS AN ALTERNATIVE PACKAGING MATERIAL

- Participant: Jade Stephan Añasco
- Teacher-coach: Mary Grace Macadini

I-B. PHYSICAL SCIENCE – TEAM

1st Place: Tagbilaran City Science High School

Special Award: Most Impactful Physical Science Study

REMOVAL OF CU (II) IONS BY CARBON QUANTUM DOTS SYNTHESIZED FROM CHICKEN (Gallus gallus domesticus) FEATHERS

- Participants: Lloyd Aaron B. Adaptar, Christian Dominic S. Dacera, Jace Maverick H. Dalmao
- Teacher-coach: Flordynel Polo

2nd Place: Dr. Cecilio Putong National High School – SHS

Special Award: Most Promising Young Scientists

Point of Zero Charge Determination of Ipil-ipil (Leucaena leucocephala) Wood Charcoal

- Participants: Trisha Nicole P. Odarve, Lorence S. Quion, Gioan Patrick A. Calcaben
- Teacher-coach: Rhea L. Subrastas

3rd Place: Holy Name University – IBED

Special Award: Best in Scientific Presentation

Porous Materials as Carbon Dioxide (CO₂) Filter

- Participants: Angela Kate C. Caballo, Isabelle Anne G. Bennisan, Rhianna Grace C. Cloma
- Teacher-coach: Celso V. Tabaranza

4th Place: Dr. Cecilio Putong National High School – JHS

Special Award: Best in Sustainable Science Project

COMPARATIVE ANALYSIS OF COMPRESSIVE STRENGTH, IMPACT RESISTANCE, AND WATER ABSORPTION OF CONCRETE HOLLOW BLOCKS WITH BANANA (Musa acuminata) PSEUDO-STEM FIBER AND COCONUT (Cocos nucifera) HUSK FIBER

- Participants: Darlene G. Caipang, Joseph Gabriel J. Estorba, Cheskaleanne D. Trabajo
- Teacher-coach: Sarah Jane E. Cuadra

5th Place: Manga National High School

Special Award: Most Promising Physical Research Award

NATURAL GLUE FROM (*Leucaena leucocephala*): A STUDY ON ITS TANNINS AND LIGNIN AS ADHESIVES

- Participants: Keisha Amber Enomar, Soppia Mae Dahan, Rae Angela G. Gone
- Teacher-coach: Princess May R. Villarojo

6th Place: Mansasa National High School

Special Award: Best in Research Prototype

SIGTRAWATT 3-IN-1 SOUND TEST EQUIPMENT

- Participants: Jared C. Babaison, Jonas M. Balili, Bryx Jovie T. Miranda
- Teacher-coach: Jessie Rey S. Galbo

7th Place: Cogon National High School

Special Award: Best in Scientific Creativity

DEVELOPING BIOPLASTIC FROM AGRICULTURAL WASTES WITH THE USE OF MUSHROOM MYCELUM

- Participants: Mikaela Naomei L. Buslon, Shaina Nasya L. Gudez, Jon Demetri Taldo
- Teacher-coach: Mary Grace Macadini

8th Place: Manga National High School

Special Award: Best in Waste Utilization Award

Eco-friendly: Reuse waste to Home-made tiles using Styrofoam (*Polystyrene*), Gasoline, and crushed seashells

- Participants: Dianne Secretaria, Eselle Payot, Bendanillo Keren
- Teacher-coach:

II-A. LIFE SCIENCE – INDIVIDUAL

1st Place: Dr. Cecilio Putong National High School – SHS

Special Award: Best Research in Biodiversity Conservation, Best in Agricultural Science

IN VITRO EMBRYOGENESIS INHIBITION ACTIVITY OF ETHANOLIC EXTRACTS OF CROWN OF THORNS (*Acanthaster planci*) SPINES AGAINST STEM BORER (*Scirpophaga innotata*) EGGS

- Participant: Bouena Juliana D. Bernados
- Teacher-coach: Rachel B. Mende

2nd Place: Dr. Cecilio Putong National High School – JHS

Special Award: Best Application of Scientific Principles

“Toxicity Analysis of Kangkong (*Ipomoea aquatica*) leaves extract and Jackfruit (*Artocarpus heterophyllus*) seeds extract using BSLA (Brine Shrimp Lethality Assay)”

- Participant: Mitch Angeli B. Salces
- Teacher-coach: Sarah Jane E. Cuadra

3rd Place: Tagbilaran City Science High School

Special Award: Young Researcher Award

TOXICITY OF MALATHION PESTICIDE TO WHITELEG SHRIMP (*Litopenaeus vannamei*)

- Participant: John Felix Rex S. Salise
- Teacher-coach: Romelle F. Amucay

II-B. LIFE SCIENCE – TEAM

1st Place: Tagbilaran City Science High School

Special Award: Best Emerging Scientist Award, Best Presenter

GUYABANO (*Annona muricata* linn.) LEAVES EXTRACT AND PAPAYA (*Carica papaya* linn.) SEED EXTRACT AS ALTERNATIVE ANTHELMINTIC AGAINST *HAEMONCHUS CONTORTUS* FROM GOATS (*Capra aegagrus hircus*)

- Participants: Faiyth Estelle A. Cabusao, Argelyn Mae G. Dalen, Jarrese Danielle P. Ocmar
- Teacher-coach: Flordunel A. Polo

2nd Place: Dr. Cecilio Putong National High School – SHS

Special Award: Innovation Award in Microbiology Research

INHIBITORY EFFECT OF SEA PURSLANE (*Sesuvium portulacastrum*) LEAF EXTRACT AGAINST *Escherichia coli*

- Participants: Brigette C. Magdales, Josan Flone S. Genilo, John Carl H. Ampo
- Teacher-coach: Lindy S. Ochavillo

3rd Place: Dr. Cecilio Putong National High School – JHS

Special Award: Best Application of Scientific Principles

Toxicity Evaluation for Water Hyacinth (*Monochoria vaginalis*) Extract using BSLA (Brine Shrimp Lethality Assay)

- Participants: Kimjay A. Nistal, Micah Angelie E. Penticase
- Teacher-coach: Sarah Jane E. Cuadra

4th Place: Cogon National High School

Special Award: Best in Herbal Medicine Research

OVI TESTA CALX (EGGSHELL: A BIOMEDICINE FOR WOUND HEALING

- Participants: Meriam A. Basadre, Mary Grace Cabalit, Clifford Durang
- Teacher-coach: Mary Grace Macadini

III-A. ROBOTICS AND INTELLIGENT MACHINES – INDIVIDUAL

1st Place: Dr. Cecilio Putong National High School – JHS

Special Award: Best in Smart Systems Design

PAVED-TLS (Pedestrian and Vehicle Enhanced Detection-Traffic Light System): one sided pedestrian crosswalk

- Participant: Kira P. Pasagad
- Teacher-coach: Sarah Jane E. Cuadra

III-B. ROBOTICS AND INTELLIGENT MACHINES – TEAM

1st Place: Holy Spirit School of Tagbilaran City – SHS

Special Award: Best in Assistive Intillegent System,

Developing An Offline Real-Time Sign Language To Text Translation Mobile Application For FSL (Filipino Sign Language)

- Participants: Julia Shilote K. Chiu, Isa M. Takashima, Zara Marie Krixiane B. Talan
- Teacher-coach: Gladys Bernadez

2nd Place: Tagbilaran City Science High School

Special Award: Best in Intelligent Systems for Environmental Solutions

ECO-NET: ARDUINO PROTOTYPE FOR WiFi CONNECTION OPERATED BY DISPOSING PLASTIC BOTTLES

- Participants: Abraham Ethan B. Abbas, Mary Agnes L. Cua, Giovanna Rae B. Dologan
- Teacher-coach: Jasmine P. Belderol

3rd Place: Holy Spirit School of Tagbilaran City – SHS

Special Award: Best in Disaster Response Robotics

Development of an Arduino-Based Automatic Flood Alarm and Drainage Control System for Flood Mitigation

- Participants: Jheril Xen A. Celocia, Abishag M. Batin, Athenais Kiana C. Pajo
- Teacher-coach: Grace Prieto

4th Place: Dr. Cecilio Putong National High School

Special Award: Excellence in AI Application

OFFLINE AMERICAN SIGN LANGUAGE AND ALPHABET TRANSLATOR APPLICATION

- Participants: Merry Cris B. Galagar, Saljem O. Jala
- Teacher-coach: Sarah Jane E. Cuadra

5th Place: Holy Spirit School of Tagbilaran City – JHS

Special Award: Best in Smart Systems Design

- Participants: Theodore Christopher Prieto, Cleofas Nica Bullecer
- Teacher-coach: Grace Prieto

IV-A. INNOVATION EXPO – INDIVIDUAL

1st Place: Tagbilaran City Science High School

Special Award: Most Promising Researcher Award

ALTERNATIVE PARTICULATE MATTER FILTERING MACHINE FOR PLASTIC BOTTLES

- Participant: Althea B. Lamagna
- Teacher-coach: Lucille Saraspe-Varquez

IV-B. INNOVATION EXPO – TEAM

1st Place: Tagbilaran City Science High School

Special Award: Best in Low-Cost Technology Innovation

BIBU: BILDONG BUAH - AN ALTERNATIVE GLASS GRINDER FOR RECYCLING AND ECO-FRIENDLY GRANULATION

- Participants: Ronesa Marie O. Sayon, Denise Angelah S. Oculam, Stephany Kaye Villaces
- Teacher-coach: Jasmine P. Belderol

2nd Place: Dr. Cecilio Putong National High School – SHS

Special Award: Best in Applied Innovation

Arduino-Powered Noise Alarm Monitoring System for Classroom Noise Reduction

- Participants: Tri Law Marion Craft S. Nayre, Lianne G. Reformina, Nathalie Rodrigues
- Teacher-coach: Jenelyn Abadiano

3rd Place: Cogon National High School

Special Award: Best in Community-Based Research

CALCIUM CARBONATE (CaCO₃) AND JUNKFOOD WRAPPERS INTO ECO-BRICKS

- Participants: Mark Leo Ulgaran, Hyacinth Diane Pulmones, Rhea Nikka B. Diacolbe
- Teacher-coach: Mary Grace Macadini

V-A. MATHEMATICS AND COMPUTATIONAL SCIENCE – INDIVIDUAL

1st Place: Tagbilaran City Science High School

Special Award: Blue Economy Research Project Award

MATHEMATICAL MODELING OF GABONG-TUBIG: AN ATMOSPHERIC WATER HARVESTING DEVICE

- Participant: Nathaniel L. Muring
- Teacher-coach: Alma Mae Putong

V-B. MATHEMATICS AND COMPUTATIONAL SCIENCE – TEAM

1st Place: Dr. Cecilio Putong National High School - SHS

Special Award: Best in Mathematical Application Research

SECOND-ORDER POLYNOMIAL MULTIPLE REGRESSION MODELING ON THE PERFORMANCE OF BAMBOO SHEATH AND JUTE LEAVES AS BIODEGRADABLE MULCH FILM

- Participants: Raul Jr. V. Salo, Mareanne Louize E. Alaban, Realyn P. Cagas
- Teacher-coach: Reneith Fideliz C. Alturas

2nd Place: Tagbilaran City Science High School

Special Award: Best in Optimization and Operations Research

REGRESSION MODEL FOR DUAL-HARNESS UMBRELLA: HARVESTING ENERGY FROM THE SUN (RADIANT ENERGY) AND RAINDROPS (GRAVITATIONAL ENERGY) WITH TENGs AND MONOCRYSTALLINE SOLAR PANELS

- Participants: Sam Stephan Mari J. Biliran, Kimora C. Penkian, Andrae Errol E. Quilicot
- Teacher-coach: Ma. Antonette R. Rim

3rd Place: Holy Name University - IBED

Special Award: Outstanding Mathematical Innovation

THE TRAINING AND TESTING OF A COMPUTER VISION MODEL IN IDENTIFYING LABORATORY EQUIPMENT

- Participants: Ralph Symone R. Manlangit, Emel Jhairey A. Simbajon, Jahaziel Stefan B. Cagulada
- Teacher-coach: Grethel Mende

SIYENSIKULA – JUNIOR HIGH SCHOOL CATEGORY

1st Place: Bohol Child Head Start

- Participant: Jillian Ian Rojas
- Teacher-coach: Shielo Angelica Agsoy

2nd Place: Tagbilaran City Science High School

- Participant: Arianne Mara T. San Juan
- Teacher-coach: Jesmar Joseph Magdugo

3rd Place: Holy Name University - IBED

- Participant: Daniel G. Amper
- Teacher-coach: Bless C. Paumig

4th Place: City of Tagbilaran National High School

- Participant: Mary Kaye C. Vargas
- Teacher-coach: Ellen Mae A. Manito

5th Place: Taloto National High School

- Participant: Athena Y. Dalangin
- Teacher-coach: Jeanette B. Dag-um

6th Place: Cogon National High School

- Participant: Xynian Ocio
- Teacher-coach: Mary Grace Cede Macadini

7th Place: San Isidro National High School

- Participant: Zyra Zanne Manlangit
- Teacher-coach: Kristine G. Macuno

DIGITURO SA SIYENSYA – TEACHER CATEGORY (SECONADRY)

1st Place: Holy Name University

- Teacher Participant: Hannah Zoe Maglajos

**OVER-ALL CHAMPION FOR ELEMENTARY CATEGORY
MANSASA ELEMENTARY SCHOOL**

**OVER-ALL CHAMPION FOR JHS/SHS CATEGORY
TAGBILARAN CITY SCIENCE HIGH SCHOOL**

2. All **1st and 2nd Place Winners** will undergo the Preliminary Round. This is intended Submission for the screening and review of the submitted entries from the 12 Schools Division Offices. **Submission of entries will be on October 24, 2025, from 8:00 AM to 12:00 PM via a One Drive Link that will be provided by the region.**
3. This Office congratulates all the winners and acknowledges the support of all the parents/guardians, teachers, school heads, robotics coordinators and facilitators for the assistance shown to the winners and the participants.
4. Immediate and wide dissemination of this memorandum is desired.

WILFREDA D. BONGALOS PhD CESO V
Schools Division Superintendent

WDB/JAAL/CID/JTB/cmfc



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