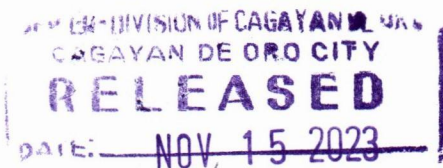




Republic of the Philippines
Department of Education
REGION X

SCHOOLS DIVISION OF CAGAYAN DE ORO CITY

Office of the Schools Division Superintendent



15 November 2023

DIVISION MEMORANDUM

No. 605 s.2023

DIVISION QUALIFIERS FOR THE 2023 SCIENCE AND TECHNOLOGY FAIR

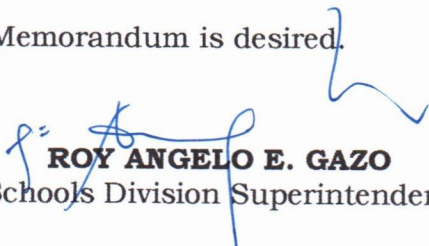
TO: Assistant Schools Division Superintendent
Concerned Public Schools District Supervisors
Concerned Education Program Supervisors
Concerned Public Elementary and Secondary School Heads
Concerned Public Elementary and Secondary Teachers
This Division

1. The field is hereby informed about the division qualifiers and members of the technical working group (TWG) for the 2023 Division Science and Technology Fair on November 20, 2023, at Cagayan de Oro National High-Junior High School, Cagayan de Oro City.

3. The division qualifiers shall bring their physical project board that may not exceed 2.5m high and 1m wide (refer to the NSTF guidebook: <https://bit.ly/3Swgh1J>). Enclosed are the qualified entries, and official list of participants. All members of the TWG are required to attend the virtual meeting on November 17, 2023 (3:00 p.m.).

3. In adherence to Equal Opportunity Principle (EOP), inclusive and fair treatment are accorded to all personnel regardless of age, gender and sexual orientation, disability, religion, and ethnicity.

4. Immediate compliance with this Memorandum is desired.

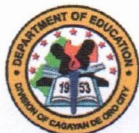

ROY ANGELO E. GAZO
Schools Division Superintendent

Encl.: As stated

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

CURRICULUM RESEARCH

JDP-/DM- division science and technology fair
November 15, 2023



Address: Fr. William F. Masterson Ave., Upper Balulang, Cagayan de Oro City
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Enclosure 1 Program Flow

Part 1 Plenary Session

National Anthem
Invocation
Welcome Remarks
Overview of the Activity
Messages

Multimedia
 Multimedia
 Evelyn Q. Sumanda
 Joel D. Potane

Margie G. Andrade, PSDS
 Audie S. Borres, ASDS
 Roy Angelo E. Gazo

Reading of Mechanics and Criteria

Intermission

Emily Tabamo

Breakout Sessions

Awarding of Winners in the Breakout Session

Event Host: Vanessa Mae Martinez

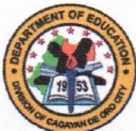
Enclosure 2 Qualified Entries for the 2023 Science and Technology Fair

Life Science Individual Category				
	Research Title	Researcher/s	Adviser/s	School
1	<i>Pleurotus ostreatus</i> (Mycelium Fungi) as an Alternative Material for Bioplastic	Mylove V. Narciso	Jeffry Q. Abella; Leah Lyn A. Lingatong	CDO NHS-Junior High School
Life Science Team Category				
1	Cow Dung: Alternative Raw Material in Producing Brown File Folder	Honely P. Mondejar, Hananiah D. Maguinda, Erica May B. Roble		CDO NHS-Senior High School
2	Cassava Starch (<i>Manihot esculenta</i>) and Milkfish Scales (<i>Chanos chanos</i>) as a Bioplastic Film to Reduce Petroleum-Based Plastic Usage	Sheen Valerie Villamor Gavia, Reian Joshua Autida Paraguya, Kate Agatha Apolinar Reyes	Jeffry Q. Abella, Leah Lyn A. Lingatong	CDO NHS-Junior High
Physical Science Individual Category				
1	Automated Sensor Thermoelectric Cooling Vest	Kerra Q. Malaras	Jeffry Q. Abella, Leah Lyn A. Lingatong	CDO NHS-Junior High



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Physical Science Team Category				
1	Utilizing Seebeck Theory through Solar Concentration and a Recycled Cold System for Energy Generation	Neil Christian C. Culata, Gianna Marie Tagod, Mary Grace L. Uyan	Jeffry Q. Abella, Leah Lyn A. Lingatong	CDO NHS-Junior High
2	Design and Development of Telemetric Air Quality Monitoring Device Integrated in Using UAV ESP 32 MCU	Mary Eugene Carmeli P. Aranton, Xiena Dawn Albero, Shantal Marie L. Bucane	Jeffry Q. Abella, Leah Lyn A. Lingatong	CDO NHS-Junior High
3	Peat Moss and Human Hair as an Alternative Oil Filter	Ivy Nicole Lituanas, Hannah Mae Aguinid, Justine Suazo		CDO NHS-SHS
4	Eco-Bricks from Recycled Plastic Bottles	Ahmad M. Mangangarig, Kim Louie K. Malbasias, Nino Warren Bancala		CDO NHS-SHS
5	Trash Trapper from Recyclable Materials as an Alternative to Aquatic Waste Remover	Jefferson E. Ladrera, Andrie John Comanda, Ian Steve Uba		CDO NHS-SHS
6	The Effectiveness of Eggshell-based, Avocado Seed and Orange Peel as an Alternative Activated Carbon Powder for Water-treatment in Cagayan de Oro, Iponan River	Macarambon, Precis Asmirah Hussiema; Sagrado, Ras Loren May; Delastrico, Arjay		CDO NHS-SHS
Science Innovation Expo Individual Category				
1	FloVaDisL Floor Waxing, Vacuuming, and Disinfecting Robot for CDO Junior High Classrooms using MIT App	Ronald David L. Rufin	Jeffry Q. Abella, Leah Lyn A. Lingatong	CDO NHS-Junior High
Science Innovation Expo Team Category				
1	IoT Based Automated Aeroponics: A Vertical Gardening Tower System using Blynk IoT App	Alkent Czar Borres, Yesha Gwen Sambile, Nikka Marie Tante	Jeffry Q. Abella, Leah Lyn A. Lingatong	CDO NHS-Junior High
2	Design and Development of an	Stevie Lara Dagasdas,	Jeffry Q. Abella,	CDO NHS-Junior High



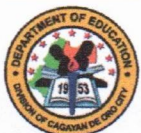
	Arduino-based Automated Recyclable Waste Segregator	Gwynerh B. Cuaresma, Christine M. Lapore	Leah Lyn A. Lingatong	
Robotics and Intelligent Machines Individual Category				
1	Design and Development of Real Time Monitoring Aerial Drone Weather Surveillance System Using ESP32 Microcontroller	Sohaimie S. Noor	Jeffry Q. Abella, Leah Lyn A. Lingatong	CDO NHS-Junior High
Robotics and Intelligent Machines Team Category				
1	Arduino-Based Smart Protective Helmet for Firefighters	Esperanza, Shiela Mae; Ranario, Neil Adrian; Quimbo, Anthony		CDO NHS-SHS
2	Arduino-based: Firefighting BOT Designed for Home	Aiza Mae Polistico, Rey Justin Soco, El Joseph Lutao		CDO NHS-SHS
3	Smartfire GSM-based Model: Alerting and Sprinkling System	Merjerine Beduya, Quennie Jannah Nunez, Glenn Jr A. Aparece	Jeffry Q. Abella, Leah Lyn A. Lingatong	CDO NHS-Junior High
*****NOTHING FOLLOWS*****				

Note: The verdict of the panelists is final and irrevocable. **1st Place** (Best Paper only per category) shall represent the division in the 2023 Regional Science and Technology Fair

Enclosure 3 Division TWG Members for the 2023 Division Science and Technology Fair

Working Committees

Overall Chairman	Roy Angelo E. Gazo Audie S. Borres Jean S. Macasero
Planning Committee	Joel D. Potane Ray O. Maghuyop
Accommodation/Food (Judges)	Airene Suan Juliet Dolero



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Program/ Invitation/Documentation/Forms	Marilou Lora Emily Tabamo, Lordson Siano
Registration and attendance	Nina Leyson Rochelle Nala
Lei/Awards Certificates, Medals	Vivian Diamante Hasima N. Salic Ninin Estillore Marvin Ramos
Display Poster Presentation	Allan H Guibone Ryan Roa
In-Charge of Different Contest Category	
Life Science	Marilou Lora
Physical Science	Vanessa Mae Martinez
Robotics	Christian Gem Pimentel
Science Innovations Expo	Karl Anthony Salise

Enclosure 4 Panelists

1. Life Science	1. Mr. Albin Jay C. Tabamo, XU-SOE 2. Mr. Mark John T. Gabule 3. Dr. Charity Rose A. Pagara, XU SOE
2. Physical Science	1. Dr. Angelo Mark Walag, USTP 2. Mr. Kimnard Joseph M. Duat, DOST 3. Engr. Delwin M. Balanay Jr, DOST 4. Ray O. Maghuyop
3. Robotics and Intelligent Machines	1. Jessie Ivan Gaspar 2. Engr. Helen Grace Gonzales, USTP 3. Dr. Kathleen E. Padrigalan, USTP 4. Joel D. Potane
4. Science Innovation Expo	1. Dr. Nick C. Pañares, EPS Science 2. Dr. Ray Butch D. Mahinay 3. Engr. Maria Leah Paola M. Estacio, XU SOE

