



Republic of the Philippines  
**Department of Education**  
Region VIII  
**SCHOOLS DIVISION OF CALBAYOG CITY**

OCTOBER 25, 2024

**DIVISION MEMORANDUM**

No. 566, s. 2024

**RESULTS OF THE 2024 DIVISION SCIENCE AND TECHNOLOGY FAIR**

To : Assistant Schools Division Superintendent  
Chief Education Supervisors, CID and SGOD  
Education Program Supervisors  
Public Schools District Supervisors  
School Heads of Secondary Schools  
District Science Coordinators  
STE and STEM Coordinators  
All Others Concerned

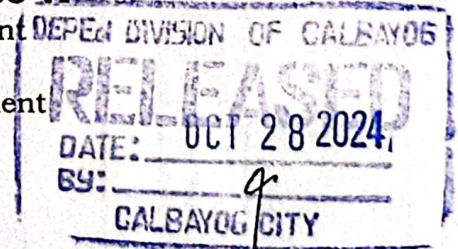
1. The results of the 2024 Division Science and Technology Fair, which was held at Calbayog City National High School in Calbayog 3 District on October 24, 2024, are hereby issued for the information and guidance of the concerned parties.
2. This office extends its heartfelt congratulations to the winners in various contest categories and expresses deep appreciation for the cooperation and support received from all those who contributed to the success of this event particularly to the host school and district for their invaluable assistance in making this activity a success.
3. Attached is the list of contest results per category and the overall ranking per district.
4. Immediate dissemination of this Bulletin is desired.

**MARGARITO A. CADAYONA JR. PhD, CESO VI**

Assistant Schools Division Superintendent

Officer-in-Charge

Office of the Schools Division Superintendent



Enclosure: As stated

Reference: As stated

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

curriculum

learning area, science

programs

contests DSTMF



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OVERALL RANKING OF THE DIVISION SCIENCE AND TECHNOLOGY FAIR 2024

No.	DISTRICT	ROBOTICS & INTELLIGENT MACHINES		LIFE SCIENCE		PHYSICAL SCIENCE		STEM INNOVATION EXPO		TOTAL	RANK
		Individual	Team	Individual	Team	Individual	Team	Individual	Team		
1	Calbayog 1	0	0	0	0	0	0	0	0		NO ENTRY
2	Calbayog 2	0	0	0	0	0	0	0	0		NO ENTRY
3	Calbayog 3	1	1	1	1	2	1	1	2	10	1
4	Calbayog 4	0	0	0	0	0	0	0	0		NO ENTRY
5	Calbayog 5	2	2	7	2	1	2	5	3	23	2
6	Calbayog 6	7	7	3	3	3	5	3	5	36	3
7	Oquendo 1	7	3	7	7	4	3	4	1	36	3
8	Oquendo 2	0	0	0	0	0	0	0	0		NO ENTRY
9	Oquendo 3	7	7	7	4	7	7	7	7	53	7
10	Tinambacan 1	7	7	2	7	7	7	7	4	48	6
11	Tinambacan 2	0	0	0	0	0	0	0	0		NO ENTRY
12	Tinambacan 3	7	7	4	5	5	4	2	7	41	5

**CONTEST RESULTS PER CATEGORY OF THE DIVISION SCIENCE AND TECHNOLOGY FAIR 2024 (DSTF 2024)**

**PHYSICAL SCIENCE CATEGORY (INDIVIDUAL)**

Entry No.	Name of Contestants	Coach	School	District	Title of Study	Rank
1	MARK STEPHEN A. BURCA	EDUARDO RODRIGUEZ	MALAGA NATIONAL HS	TINAMBACAN 3	Effectiveness of Charcoal and Candle Wax as Alternative Shoe Polisher	5
2	ROSELYN B. SEÑORA	MILA MAY N. ABARRO	CALBAYOG CITY NATIONAL HS	CALBAYOG 3	Solar Powered Real-Time Weather Monitoring and Alert System	2
3	NIÑA LYN C. BEBIANO	MELVIN GRAFIL	TRINIDAD NATIONAL HS	CALBAYOG 6	Mango (Magnifera indica) Seed Bio Absorbent for Used Engine Oil	3
4	MICHAELA MAY B. VILLANUEVA	EDNA M. CABILLAN LAICA A. AQUINO	OQUEENDO NATIONAL HS	OQUEENDO 1	COTTIPER: Cogon Grass (Imperata Cylindrica) as an Alternative Fiber for Tissue Paper	4
5	MAX IVAN T. EMAN	ANA MARGARITA D. BAUTISTA	SAN POLICARPO NATIONAL HS	CALBAYOG 5	DIOXSORB: Cellulose Porars Beads from Wastepaper as Carbon Dioxide (CO <sub>2</sub> ) Absorption for Effective Carbon Sequestration	1

**PHYSICAL SCIENCE CATEGORY (TEAM)**

Entry No.	Name of Contestants	Coach	School	District	Title of Study	Rank
1	KEZIAH EUNICE S. SUSMEÑA	CARINA ARCENAL	SAN POLICARPO NATIONAL HS	CALBAYOG 5	Soil Amendment for the Revitalization of Degraded Clay-loam Soil with Seawater and Coconut Byproducts: Carbonized Shell and Sawdust	2
	RHEA MAE A. BRADECINA	CHERRY MARIE O. MONTES				
	MARVIN EUAN LAIN V. IGLESIA					
2	NESTOR JR. S. MONSANTO	JOEKIM R. CASIÑO	OQUEENDO NATIONAL HS	OQUEENDO 1	COLANT-Coronitas (Lantana camara linn) Extract as Anti-bacterial Soap	3
	STEPHANIE KAYE A. TEONILLO	MARSHE R. PANZUELO				
3	CLEEVE CALVIN N. DURA	JEIVA PRELL L. DE JESUS	MALAGA NATIONAL	TINAMBACAN III		4

	KERVIE I. MORACA MANI A. TEQUIN JHONA MAE C. SILAO		HS		Evaluating Organic Filtration Methods for Safe Drinking Water Production	
4	DANICA KYLE PAULEEN RELAMPAGO	MELVIN GRAFIL	TRINIDAD NATIONAL HS	CALBAYOG 6	Banana Inflorescence Waste Fiber as Pillar Material for Bioplastic Film Production	5
5	SHAMEERAH THEREESE A. DE GUZMAN ROCHELLE ANN P. ORQUITA VIANN FEBRIELLE B. GULLAS	MA. LENY PALOMERAS-YU	CALBAYOG CITY NATIONAL HIGH SCHOOL	CALBAYOG 3	PledCycle: Piezoelectric and Direct Current Generator for Pedicab	1

LIFE SCIENCE CATEGORY (INDIVIDUAL)

Entry No.	Name of Contestants	Coach	School	District	Title of Study	Rank
1	AMIR AMON CHEAM A. AUZA	LADY SYDNEY S. TARRAYO	CALBAYOG CITY NATIONAL HS	CALBAYOG 5	Optimization of Copper (II) Biosorption using Isolated Polysaccharide from Sargassum Polycystum in a Solution	1
2	ALVIN B. VILLASIS	DOROTHY M. PRASMO	MALAGA NATIONAL HS	TINAMBACAN 3	Carica Papaya L. Leaf Extract with Aloe Vera Extract as an Effective Mosquito Repellent	4
3	PRINCESS MOIRA B. GOLVE	WILFREDO O. MILITAR JR.	RAFAEL LENTEJAS MEMORIAL SCHOOL OF FISHERIES	TINAMBACAN 1	Assessing the Effects of Lactobacillus-based Probiotics on Mungo Bean Growth and Resistance In Phytopathogens	2
4	MATTHEW T. BALLON	MELVIN GRAFIL	TRINIDAD NATIONAL HS	CALBAYOG 6	In-Vitro Analysis of the Hemostatic Property of Wax Begonian Sempreflorens Ethanolic Extract in Domestic Pig Blood	3

LIFE SCIENCE CATEGORY (TEAM)

Entry No.	Name of Contestants	Coach	School	District	Title of Study	Rank
1	ALEAH JADE L. CABRITO TRISTAN TERENCE VIANNE P. CATALAN MIKAELA KAYE R. GRAFIL	MADELYN S. TEMPOROSA	CALBAYOG CITY NATIONAL HS	CALBAYOG 3	Antidiabetic Activity of Song of India (Dracaena reflexa) Methanolic Extracts in Alloxan-Induced Diabetic Mice (Mus musculus)	1
2	JOHN MINARD D. PILLOW	MARK L. ICAVAT	TARABUCAN NATIONAL HS	OQUEENDO 3	Natural Beauty: Exploring Guava and Aloe Vera Jelly Facial Mask for Acne Treatment	4

	SHANELE MAE D. CABUNDOC						
	CHRISTINE C. DELOS REYES						
3	SUNLY PRINCESS A. MONTERONA	JEAZYL M. MIANO	SAN POLICARPO NATIONAL HS	CALBAYOG 5	Investigating the Synergistic Effects of Mangifera Indica (Mango) Annona Muricata (Soursop) and Psidium Guajava (Guava) Leaf Extracts on Blood Sugar Regulation	2	
	JEZZA S. MONTERO						
	ROJEAN M. FLORES						
4	ARGIE S. PANULLIO	SYRA C. ECHENIQUE	MALAGA NATIONAL HS	TINAMBACAN 3	Effect of Using Sodium Polyacrylate from Used Diapers and Paper In Soil as Fertilizer In Growing Capsicum Annum	5	
	DAVID WARREN A. GRANSDEN						
	RIEZALYN MAE A. BARCOMA						
5	LOVELLA ROSE O. CANAMAN	MELVIN R. GRAFIL	TRINIDAD NATIONAL HS	CALBAYOG 6	In-vitro Analysis of the Blood Clot Potential of Squash Ethanolic Extract in Domestic Pig Blood	3	
	ERNERST JR. C. SILAO						

INNOVATION EXPO CATEGORY (INDIVIDUAL)

Entry No.	Name of Contestants	Coach	School	District	Title of Study	Rank
1	RAE ZIELA MARI M. ALFARO	ROSALINA C. PALOGAR MA. CRESILDA R. MARITO	OQUEENDO NATIONAL HS	OQUEENDO 1	Recycled Solar-Powered Automatic Water Sprinkler (RSPAWS)	4
2	SAMATHA SHANE P. ESTRELLES	DIOREBILL Y. BALILI	SAN POLICARPO NATIONAL HS	CALBAYOG 5	Harassing Oregano (Origanum Vulgare) Lemongras (Cymbopogon citratus) and Coconut Oil (Cocos Nucifera) as a Diffuser for Natural Mosquito Repellent	5
3	CHRISTIAN DAVE L. VASQUEZ	AARON JAYME FLOR	MALAGA NATIONAL HS	TINAMBACAN 3	Eco-Friendly Energy Development with a Clip Fan for Sustainable Electricity	2
4	VAVEMHELLE M. DOCCDOC	CHRISTIAN PAUL LUSTICO ROSELA ARMAMENTO	CALBAYOG CITY NATIONAL HS	CALBAYOG 3	AUBRID: Arduino-Based Ultrasonic Blind Spot Detection	1
5	NIZZLE ROSE A. OSTULANO	MELVIN GRAFIL	TRINIDAD NATIONAL HS	CALBAYOG 6	Used Sanitary Napkins Growth Enhancer for Mungo (Vigna radiata) with Baker's Yeast (Saccharomyces cerevisiae) as Bio-Decomposer	3

**INNOVATION EXPO CATEGORY (TEAM)**

Entry No.	Name of Contestants	Coach	School	District	Title of Study	Rank
1	IRIN ALMAEIN M. JULATON	AMABELLE S. ARALAR	OQUEENDO NATIONAL HS	OQUEENDO 1	SALT-LUX (Sustainable Saltwater Utilizing Android-Controlled Lamp)	1
	IRRA MAE REIANNE M. JULATON					
	JOHN CRIZ CACHO					
2	REGINE B. SEÑORA	EMMA RUTH D. LABRO	CALBAYOG CITY NATIONAL HS	CALBAYOG 3	Solaris: Solar-Powered Arduino-Based Open Drainage Waste Interceptor Machine	2
	SHANN MICHAEL JUDLOMAN					
	TISHA SOPHIA BASTASA					
3	NIELESKA BENILLE R. ORNOPIA	ALFRED P. RODELLAS	RAFAEL LENTEJAS MEMORIAL SCHOOL OF FISHERIES	TINAMBACAN 1	Wind Energy Harvester - An Energy Conversion System	4
	JHANICE AQUINO					
	JUSTIN SERINAS					
4	ALIYAH TINA L. TARRAYO	MELVIN GRAFIL	TRINIDAD NATIONAL HS	CALBAYOG 6	PurSham Biostain: PURPLE SHAMROCK (Oxalis triangularis)EXTRACT BIOLOGICAL STAIN FOR PLANT CELL MICROSCOPIC OBSERVATIONS	5
	SOPHIA MISCHA VILLAMOR					
	NATHALIA B. ALE					
5	JASPER CLIAN T. RODRIGUEZ	ALLAINE JOY SEPEDA	SAN POLICARPO NATIONAL HS	CALBAYOG 5	DURIALATL: Durian Seeds(Durio zibethinus) as an Alternative for Cacao Seeds (Theobrama cacao) in Chocolate Production	3
	JAN LLOYD AGUAVIVA					

**ROBOTICS and INTELLIGENT MACHINES CATEGORY (INDIVIDUAL)**

Entry No.	Name of Contestants	Coach	School	District	Title of Study	Rank
1	MARICHU A. CABYAO	JOHN CARLO TEMPLONUEVO	SAN POLICARPO NHS	CALBAYOG 5	Sun-Powered Solution: Drone for Sustainable Pest Control in Agriculture	2
2	RAJIN FRITZ F. ARMA	ELIZABETH B. LUMOD	CALBAYOG CUTY NHS	CALBAYOG 3	Convolutional Neural Network-Integrated Hyperspectral Morphological Analysis for Enhanced Leaf Disease Classification	1

**ROBOTICS and INTELLIGENT MACHINES CATEGORY (TEAM)**

Entry No.	Name of Contestants	Coach	School	District	Title of Study	Rank
1	DAPHNE JANE JOMOC		OQUEENDO NATIONAL	OQUEENDO 1	SPONDAS (Solar Powered Noise Detection Alarm System)	3

	LOREEN JEDAH GULPETE	SHERWIN SALAMANES JOHN PHILIP RESENTE	HIGH SCHOOL				
2	MIEL GAUSS SAGAYAP						
	NYSA G. BAUTISTA	APRIL CATHY MANOTA	SAN POLICARPO NATIONAL HIGH SCHOOL	CALBAYOG 5	WasteSnap: Image Recognition-Based Application for Waste Classification	2	
	ARSEN DE LOS SANTOS						
	RENIEX O. MIRALES						
3	JOHN RAFAEL C. TRINIDAD	ENGR. LAZARO R. BINAY JR.	CALBAYOG CITY NATIONAL HIGH SCHOOL	CALBAYOG 3	VendoMed: Stationed Arduino-Based Over the Counter (OTC) Medicine Dispensing System	1	
	LADY DIANE N. BONIFACIO						
	ANDRE PAUL C. LABASBAS						