



Republic of the Philippines
Department of Education
REGION VII – CENTRAL VISYAS
Schools Division of Cebu Province

Office of the Schools Division Superintendent

October 26, 2023

DIVISION MEMORANDUM

No. 461, s. 2023

**2023 GAD-COMPLIANT DIVISION SCIENCE AND TECHNOLOGY FAIR
(ELEMENTARY & SECONDARY)**

To: Assistant Schools Division Superintendents
Chiefs, CID & SGOD
Public Schools District Supervisors/OICs
Public & Private Elementary & Secondary School Heads

1. This Office announces and congratulates the **Winners of the 2023 GAD-Compliant Division Science and Technology Fair (Elementary & Secondary) held at Buanoy National High School, Balamban District 2, Balamban, Cebu on October 23, 2023.**
2. The first-place winners of the Tuklas (LS, PS, RIM, MCS, and IE Categories-Indv. & Team), Sibol, Siyensikula, and DigiTuro competitions shall submit the manuscripts and other necessary forms (soft and hard copies) on November 10, 2023 (8:00 am -12:00noon), to the Division Office and be forwarded for the preliminary round -screening and review in the regional level. Once officially announced as qualifiers, they shall advance to the Regional Science and Technology Fair 2023 (RSTF) for the final round on November 27-29, 2023 at Ecotech Center, Sudlon, Lahug, Cebu City.
3. This Office also acknowledges and extends sincere gratitude to the efforts exerted by the LGU of Balamban, Cebu with the Buanoy NHS, Balamban District 2, for hosting the said event and the support extended by the Municipal Officials of the delegates, Parents/PTA officials, Program Management Team, Working Committees, PSDSs, school heads, and teachers.
4. Attached are the lists of winners in Tuklas of different categories, Sibol, Siyensikula, and DigiTuro Competitions.
5. Immediate and wide dissemination of this Memorandum is directed.

SENEN PRISCOLO P. PAULIN, CESO V

a Schools Division Superintendent



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Telephone No.: (032)424-9000
Email Address: cebu.province@deped.gov.ph

GAD-COMPLIANT DIVISION SCIENCE AND TECHNOLOGY FAIR 2023

TUKLAS COMPETITION WINNERS

Buanoy National High School

October 23, 2023

CATEGORY: MATH AND COMPUTATIONAL SCIENCE -INDIVIDUAL

RANK	DISTRICT	NAME OF SCHOOL	RESEARCHER/S	COACH	TITLE OF STUDY
1ST	BADIAN	Badian National High School	Tabanao, Elyn R.	Shielou Rose L. Arbiol	Euler's Ongoing Odd Perfect Number: A Mathematical Investigation

CATEGORY: MATH AND COMPUTATIONAL SCIENCE -TEAM

RANK	DISTRICT	NAME OF SCHOOL	RESEARCHER/S	COACH	TITLE OF STUDY
1ST	MEDELLIN	Medellin National Science and Technology School	Villamor, Kirsten Noelle M. Mangubat, Shanyl Shifra S. Gunhuran, Erick Kent G.	GENIT, KARINA PATRICIA R.	Examining Web Traffic's Influence on ChatGPT Generated Informative Essays
2ND	BADIAN	Badian National High School	Carreon, Bobby Joe T. Devilleres, Dio-em P. Espiritu, Francis Adrian P.	Wilma D. Toribio	Constructing a Recurved Wall in Coastal Areas in Matutinao, Badian
3RD	SAN FERNANDO 1	SOUTH POBLACION NHS-MATH & SCIENCE SCHOOL	Llenos, Myvi Crialo S. Gabutin, Ysabella Kate G. Tapales, Fergie W.	IVY JESSA O. CANDILANZA	CYBERSECURITY AWARENESS OF THE SOUTH POBLACION NHS - MATH AND SCIENCE SCHOOL STUDENTS

DSTF 2023 SCIENCE RESEARCH COMMITTEE

OLGA FERNANDEZ

Co-Chair

ROMIN R. SANCHEZ

Chairman

JIMJUN F. RAMAS

Co-Chair

JADE G. BACON

Asst Chairman

APPROVED BY:

JUVINAR E. MONTOLO

EPS-SCIENCE, DEPED CEBU PROVINCE DIVISION

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DIVISION SCIENCE AND TECHNOLOGY FAIR 2023

TUKLAS COMPETITION WINNERS

Buanoy National High School

October 23, 2023

CATEGORY: LIFE SCIENCE -INDIVIDUAL

RANK	DISTRICT	NAME OF SCHOOL	RESEARCHER/S	COACH	TITLE OF STUDY
1ST	SAN REMIGIO	San Remigio National High School	Baby Trisha S. Quimod	Mary Therese O. Masbate	In Vitro Antibacterial Activity and Anti-Quorum Sensing of the Ethanolic Extracts of Pleomele (<i>Dracaena reflexa</i>) Leaves against <i>Pseudomonas aeruginosa</i>
2ND	MINGLANILLA 1	Minglanilla Science High School	Maria Fatima Y. Batain	Jade C. Bacon	Phytochemical Screening and Larvicidal Activity of Pandakaki (<i>Tabernaemontana pandacaqui</i>) Leaf Extract Against <i>Aedes aegypti</i> Larvae
3RD	ARGAO	Argao National High School	Camello, Earl Vincent P.	Irene C. Sanchez	In Vitro Study Of Garlic (<i>Allium sativum</i>) Extract As An Insecticide To Eggplant Flea Beetles (<i>Epitrix fuscula</i>)
4TH	SAN FRANCISCO	Consuelo National High School	Faith Julyanne R. Amancio	Errica Mae C. Bacu	Qualitative Analysis on the Phytochemical Compounds of <i>Opuntia cochenillifera</i> Linn. (Marpal Cactus) found in Consuelo, San Francisco, Cebu

CATEGORY: LIFE SCIENCE -TEAM


RANK	DISTRICT	NAME OF SCHOOL	RESEARCHER/S	COACH	TITLE OF STUDY
1ST	COMPOSTELA	Compostela Science and Technology High School	Jan Christian Jay Abella Dwayne Anthony L. Aseo Geraldyn B. Luna	Jaemaica P. Gimena	Phytochemical Analysis and Antibacterial Effect of Papaya (<i>Carica papaya</i>) Male Flower Extract and Neem Tree (<i>Azadirachta indica</i>) Leaf Extract Against <i>Escherichia coli</i> (<i>E. coli</i>)




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2ND	SAN REMIGIO 1	San Remigio National High School	Johanna D. Cereño Dexter S. Juevesano	Jesusa P. Ramirez	Antibacterial and Anti-Quorum Sensing Activities of Hilo Grass (<i>Paspalum conjugatum</i>) Against <i>Streptococcus mutans</i>
3RD	SAN FRANCISCO	Camotes National High School	Luchavez, Kim Rose Lucernas, Sarah Gean Jocdong, Jomel Anthony	Rejoice J. Roble	Culture Trial of Macroalgae as Potential Liquid Tree Innovation Mitigating Impacts of Climate Change
4TH	ARGAO 2	Hilario P. Davide Sr. National High School	Zhekainah Pearl A. Caminero Mary Rose C. Sarte Irene A. Tobes	Joenard C. Algonos	Molluscicidal Activity of Moringa oleifera Root Extract against Golden Apple Snail (<i>Pomacea canaliculata</i> L.)
5TH	ARGAO 1	Argao National High School	Camello, Shan Ryan C. Caminade, Winona Ashley M. Suarez, Trishville Ann M.	Irene C. Sanchez	Molluscicidal Potential of Shrub Verbena (<i>Lantana camara</i>) Crude Extract in the Eggs of Golden Apple Snail (<i>Pomacea Canaliculata</i>)


DSTF 2023 SCIENCE RESEARCH COMMITTEE


KRISTYL M. PENARANDA
 Co-Chair


ROMIN R. SANCHEZ
 Chairman

IVY M. LAPUERTA
 Co-Chair


JADE C. BACON
 Asst Chairman

APPROVED BY:

JUVIMAR E. MONTOLO
 EPS-SCIENCE/DEPED CEBU PROVINCE DIVISION

DIVISION SCIENCE AND TECHNOLOGY FAIR 2023
TUKLAS COMPETITION WINNERS

Buanoy National High School
 October 23, 2023

CATEGORY: PHYSICAL SCIENCE -INDIVIDUAL

RANK	DISTRICT	NAME OF SCHOOL	RESEARCHER/S	COACH	TITLE OF STUDY
1ST	MINGLANILLA 1	Minglanilla Science High School	Ailyn D. Cosep	Jane R. Cedeño	Polypropylene Non-Woven Face Masks for Interior Plyboard
2ND	ARGAO 1	Argao National High School	NACES, SAICY S.	IRENE C. SANCHEZ	CHARACTERIZATION OF ANTHOCYANIN AND CAROTENOID PLANT PIGMENT IN VARYING PH LEVELS OF CITRIC ACID SOLUTION
3RD	BALAMBAN 2	Buanoy National High School	Garina, Samantha P.	Villo, Ailee Mae A.	COMBUSTION RATE OF CHARCOAL BRIQUETTES OUT OF BAMBOO (<i>Gigantochloa levis</i>) LEAVES CHAR

CATEGORY: PHYSICAL SCIENCE -TEAM


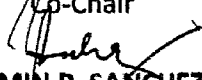
RANK	DISTRICT	NAME OF SCHOOL	RESEARCHER/S	COACH	TITLE OF STUDY
1ST	BANTAYAN	Bantayan Science High School	Tinga, Al Angel Chelsea P. Pacina, Mary Rose T. Victoria, Alessandra P.	Tinga, Lina P.	FEASIBILITY STUDY OF CHICKEN (<i>Gallus gallus domesticus</i>) EGG SHELLS AND FERRIC OXIDE AS ENGINE EXHAUST GAS CATALYST FOR CO AND HC REDUCTION
2ND	SANTANDER	<i>Lyceum of Cebu Inc. Santander Campus</i>	Trisha Gail Cuetara Lauraine Jean L. Achas Marienelle C. Oracoy	Jolena R. Ondiano	Integrating Aloe Vera Extract into Banana Peel Paper Production
3RD	MINGLANILLA 1	Minglanilla Science High School	Adrienne L. Dumahel Clouie G. Resane Charlize Jean H. Rodriguez	Romin R. Sanchez	Utilization of Taro as Additive to Rubber Blends for the Production of Biodegradable Rubbersheets






4 at 11 o'clock

4th	COMPOSTELA	Compostela Science and Technology High School	Part Leander G. Bltoon John Cedric Z. Hermoso Stephanie M. Sugarol	Jaemalca P. Gimena	Effectiveness of Buri (<i>Corypha utan</i>) Fiber Waste as Thermal Insulation on Houses
5th	BALAMBAN 1	Nangka National High School	Montero, Mark Jhuviel D. Ripdos, Dianrey A. Quindao, John Antonio B.	Juniel R. Gomez	SOLAR – POWERED WASTEWATER TREATMENT: AN ALTERNATIVE HYDRATION TO AGRICULTURAL CROPS

DSTF 2023 SCIENCE RESEARCH COMMITTEE


GLADYS G. UY
 Co-Chair

ROMIN R. SANCHEZ
 Chairman


JEAN A. ALAD
 Co-Chair

JADE G. BACON
 Asst Chairman

APPROVED BY:

JUVIMAR E. MONTOLO
 EPS-SCIENCE, DEPED CEBU PROVINCE DIVISION

**DIVISION SCIENCE AND TECHNOLOGY FAIR 2023
TUKLAS COMPETITION WINNERS**

Buanoy National High School
October 23, 2023

CATEGORY: ROBOTICS AND INTELLIGENT MACHINES -INDIVIDUAL

RANK	DISTRICT	NAME OF SCHOOL	RESEARCHER/S	COACH	TITLE OF STUDY
1ST	Badian	Badian National High School	Amil Rey D. Pielago	Sheilou Rose L. Arbiol	Arduino-based electrical Circuit Overload Prevention with GSI Module

CATEGORY: ROBOTICS AND INTELLIGENT MACHINES -TEAM

RANK	DISTRICT	NAME OF SCHOOL	RESEARCHER/S	COACH	TITLE OF STUDY
1ST	Bantayan 1	Bantayan Science High School	Dwynn D. Negrido Prince August Rutelch R. Toledo Healvy T. Taytayan	Kimberly V. Irmano	IOT-BASED 3IN1 CLASSI (CLASSROOM AUTOMATED SERVICE SYSTEM INTEGRATION)
2nd	BADIAN	BADIAN NATIONAL HIGH	Jerald M. Silvano Bryle Anthony T. Camarillo Ashley A. Villarubia	Jerameel K. Estrera	ELECTRA: EFFICIENT LOW-ENERGY CONSUMPTION TECHNOLOGY RESORTING ARDUINO HUMAN DETECTIO SYSTEM UTILIZING ULTRASONIC SENSORS
3rd	BALAMBAN 2	BUANOY NATONAL HIGH	Bethel Ann N. Armasa Jabbey M. Montero Ashley Rose N. Melgar	Nori B. Bautro	SOLAR POWERED AUTOMATED SCARECROW ROBOT
4th	MINGLANILLA 1	Minglanilla Science High School	Gaille A. Amolong Jaye Kaitlyn M. Mendoza Ashley Marie R. Perez	Gladys G. Uy	Ph.E.A.S.Y.C.S. : Physics Excogitation Utilizing Artificial Intelligence System w a Deep Neural Network To Yield Comprehension For Students

DSTF 2023 SCIENCE RESEARCH COMMITTEE


JANE R. CEDENO

Co-Chair


ROMIN R. SANCHEZ

Chairman

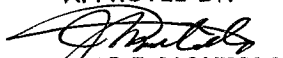

NONAH C. ALICAYA

Co-Chair


JADE A. BACON

Asst Chairman

APPROVED BY:


JUVIMAR E. MONTOLO

EPS-SCIENCE, DEPED CEBU PROVINCE DIVISION

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**DIVISION SCIENCE AND TECHNOLOGY FAIR 2023
INNOVATIONS EXPO WINNERS**

Buanoy National High School
October 23, 2023

INNOVATIONS EXPO TEAM


RANK	DISTRICT	NAME OF SCHOOL	RESEARCHER/S	COACH	TITLE OF STUDY
1st	COMPOSTELA	Tag-Ubi Integrated School	HEREDIA, WENDY LYN OCHEA, CYNTHIA OLIVERIO, JAY ANN	Jeward D. Bingtan	INTELLIALERT: Multi-sensor Arduino-based Integrating Fire Alarm and Water Level Monitoring with Real-time Relay of Information Through Radio Signal Broadcast and SMS Alert
2nd	BALAMBAN 1	Nangka National High School	Milmil, Mary Rose L. Sungkip, Everie Bless P. Yray, Beish Denzell T.	Ethel C. Mapa	APPLICATION OF INDIGENOUS-BASED SORBENTS: A SUSTAINABLE ALTERNATIVE SOLUTION FOR MARINE OIL SPILL CLEAN-UP

DSTF 2023 SCIENCE RESEARCH COMMITTEE


JERAMEEL K. ESTRERA
 Co-Chair


ROMIN R. SANCHEZ
 Chairman


JADE C. BACON
 Asst Chairman

APPROVED BY:

JUVIMAR E. MONTOLO
 EPS-SCIENCE, DEPED CEBU PROVINCE DIVISION

GAD - COMPLIANT DIVISION SCIENCE AND TECHNOLOGY FAIR 2023

BUANOY NATIONAL HIGH SCHOOL

BUANOY, BALAMBAN, CEBU

October 23, 2023

SIBOL RESULT

DISTRICT	NAME OF SCHOOL	NAME			POSITION (PARTICIPANT/COACH/ OBSERVER ETC.)	TITLE OF THE ENTRY	Signature
		LAST NAME	FIRST NAME	MIDDLE INITIAL			
BALAMBAN 2	BUANOY CENTRAL ELEMENTARY SCHOOL	TUGBONG	ALIEGHZA ROSE	L.	PATICIPANT	Larvicidal Effect of Ethanolic Extract of Makahiya (Mimosa pudica) roots on Aedes Aegypti Larvae	FIRST PLACER
		LUMANOG	REXELLIE	L.	PARTICIPANT		
		PLANG-AT	MARIANNE FAITH	T.	PARTICIPANT		
		DELA CALZADA	JOYCE	M.	COACH		
CONSOLACION 1	CONSOLACION CENTRAL SCHOOL	ALCOVER	ADAM	A.	PARTICIPANT	Biaxially Oriented Polypropylene Waste Film: Its Efficacy as Aggregate for Ground Engineering Technology	SECOND PLACER
		ORONGAN	MIKON JOSEPH	C	PARTICIPANT		
		GIMARANGAN	YOSHABEL ZEPHORA	A.	PARTICIPANT		
		GIMARANGAN	CHERUBIM	A.	COACH		
MINGLANILLA 1	MINGLANILLA SPECIAL SCIENCE ELEMENTARY SCHOOL	ABELLA	RON DAVID	S.	PARTICIPANT	FROM SALTY SEAS TO CRYSTAL CLEAR: INVESTIGATING THE PURIFICATION PROCESS OF SALTWATER INTO POTABLE WATER	THIRD PLACER
		ESPINOZA	DESHALE MAY	S.	PARTICIPANT		
		LOPEZ	GOVIAN	N.	PARTICIPANT		
		DEL PILAR	CRISTINA	N.	COACH		
CONSOLACION 2	JUGAN ELEMENTARY SCHOOL	GOMEZ	JOHANNA ALTHEA	M.	PARTICIPANT	PAPER AND EGGSHELL AS CONCRETE MASONRY UNIT ALTERNATIVE	FOURTH PLACER
		LANZADO	PRINCESS REIANNE	V.	PARTICIPANT		
		CASTILLO	ZIDJIAN NATHANIEL	M.	PARTICIPANT		
		HIJAPON	RESTRELLITA	S.	COACH		

[Handwritten Signature]
[Handwritten Name]

DISTRICT	NAME OF SCHOOL	NAME			POSITION (PARTICIPANT/COACH/OBSERVER ETC.)	TITLE OF THE ENTRY	Signature
		LAST NAME	FIRST NAME	MIDDLE INITIAL			
TUBURAN 1	TUBURAN CENTRAL ELEMENTARY SCHOOL	GRACIA	SHAIMIE ABIGAIL	P.	PARTICIPANT	CUCUMBER PEELS, ANT REPEL	FIFTH PLACER
		GONZALES	MARY LOURDES BERNADETTE	T.	PARTICIPANT		
		TAMBUT	KAELEN ZHYAR JEN	G	PARTICIPANT		
		ORTEZANO	ALMA	B.	COACH		

Prepared by:

ALADIN E. CABANIG
Chairman

RAMIL MONTECILLO
Co - Chair

JENNIFER BAGIO
Co - Chair

Juvina E. Montecillo
Education Program Supervisor - Science




Republic of the Philippines
Department of Education
 REGION VII – CENTRAL VISAYAS
 SCHOOLS DIVISION OF CEBU PROVINCE


GAD-COMPLIANT DIVISION SCIENCE AND TECHNOLOGY FAIR 2023
TOP 5 QUALIFIER FOR DIGITURO


CODE	District	TITLE	Teachers Name	Rank
DT-07	Catmon	THE BUILDING BLOCKS OF LIFE	Junery D. Sumalinog Jr.	1st
DT-06	Borbon	Investigate the properties of saturated and unsaturated solutions	MS. NERISSA FLORES	2nd
DT-11	Madridejos	The Electricity Generation, Transmission and Distribution System	RICHARD A. DUCAY	3rd
DT-04	Barili I	Exploring the Frontiers of Science: A Journey to Genetics	Zenneth Ann Z. Baya	4th
DT-01	Alcoy	CHARLES' LAW	MS. KAY L. ABAN	5th

Science Division Digituro Committee


GLYNN DEABANICO
 Chairperson


JANICE D. CASAS
 Co-Chairman


JAPIE S. CUYOS
 Co-Chairman


JUVIMAR MONTOLO
 EPS_Science Cebu Province

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Republic of the Philippines
Department of Education
 REGION VII – CENTRAL VISAYAS
 SCHOOLS DIVISION OF CEBU PROVINCE

GAD-COMPLIANT DIVISION SCIENCE AND TECHNOLOGY FAIR 2023
TOP 5 ENTRIES FOR SIYENSIKULA


CODE	District	TITLE	Students Name	Coach Name	Rank
SK-11	San Remigio 1	"Beyond the Periodic Table: The Quest for New Elements"	Charleen Joy G. Tinapao	Reubert C. Piamonte	1st
SK-06	Liloan	"TECTONIC PLATE MOVEMENT"	Marie Lee C. Trinidad	Joshua C. Nerves	2nd
SK-08	Minglanilla 1	THE BERNOULLI'S PRINCIPLE: BEYOND WUTHERING WINDS	CATLYN ROSE A. LAURENTE		3rd
SK-05	Consolacion 1	CHRONICLES OF PROFESSOR R.: POTENTIAL AND KINETIC ENERGY	FIONA NICOLE O. RIGONAN		4th
SK-12	San Remigio 2	Jeff, The Time Traveler (Explore the World in 4.6 B Years)	Jeff Harby Painar	Elsie B. Tequin	5th

Science Division Siyensikula Committee


GLYNN DEABANICO
 Chairperson


JANICE D. CASAS
 Co-Chairman


JAPIE S. CUYOS
 Co-Chairman


JUVIMAR E. MONTOLO
 EPS Science Cebu Province

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