



Republic of the Philippines
DEPARTMENT OF EDUCATION
Region VII, Central Visayas
SCHOOLS DIVISION OF NEGROS ORIENTAL
www.depednegor.net

November 5, 2018

DIVISION MEMORANDUM
NO. 739, s. 2018

REGIONAL SCIENCE AND TECHNOLOGY FAIR FOR SCHOOL YEAR 2018-2019

TO : Asst. Schools Division Superintendents
Chiefs, CID & SGOD
Division Education Program Supervisors/Division Coordinators
Public School District Supervisors/District-In-Charge
Public Elementary & Secondary Schools Heads
All Other Concerned

1. Please be informed of the **REGIONAL SCIENCE AND TECHNOLOGY FAIR FOR SCHOOL YEAR 2018-2019** on **November 8-10, 2018** at the DepEd Ecotech Center, Sudlon, Lahug, Cebu City.
2. Attached is the list of Qualifiers, Regional Memorandum 0741, s. 2018 and Regional Memorandum 0823, s. 2018, for further details including Program Schedule Matrix, Schedule for check-in/out & First Meal & Last Meal.
3. A registration fee of Two Thousand Nine Hundred Pesos (P2,900) shall be collected from each participant to cover the expenses for board and lodging, venue, honoraria of judges, prizes and materials needed for the conduct of the Regional STF.
4. Registration fee and travel expenses that will be charged from each participant are chargeable against Division/School MOOE/RSHS/local funds and other fund sources subject to the usual accounting and auditing rules and regulations.
5. This memorandum serves as **TRAVEL ORDER**.
6. For immediate dissemination and compliance.

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WILFREDA D. BONGALOS, Ph.D, CESO V
Schools Division Superintendent *ac*
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**LIST OF QUALIFIERS FOR THE REGIONAL SCIENCE AND TECHNOLOGY FAIR FOR SCHOOL
 YEAR 2018-2019**

Category	Title	Researcher/s	Adviser/School
Life Science-Team (Elementary)	HUMAN URINE: EFFECTIVE AND COSTLESS RICE FIELD PEST CONTROL	Francis Faith J. AliÑabo, Jeyah Marie P. Rodriguez, Mark Christian C. Mayagma	Ms Challen D. Abadilla Bato Elem. Sch. Mabinay
Physical Science- Individual (Elementary)	CANDLE-POWERED THERMOELECTRIC CHARGER	Reanne D. Guad	Ms Zenaida G. Alonzo Albiga Elem. Sch. Siaton
Physical Science- Team (Elementary)	BRICKS MADE OF PLASTIC BOTTLES	Roque John S. Alabata, Prince Gian V. Trumata, Casey S. Tuballa	Ms Vicenta B. Bobis Dauin Central Sch.
Physical Science- Individual (Secondary)	FLOOD WARNING DEVICE: A TWO WAY WATER LEVEL INDICATOR	Christy Jane A. Fortich	Ms Mary Jane C. Cacas Manjuyod Science HS
Physical Science Team (Secondary)	DECORATIVE TILE USING EGGSHELLS	Khyla Shane J. Acab, Gwyneth Gale V. Flores,	Ms Florentina P. Pasajingue Negros Oriental HS
Robotics and Intelligent Machine Individual	ROBOT VACUUM CLEANER POWERED BY ARDUINO UNO	Yves Xaviery V. Elnasin	Ms Elizabeth H. Bomediano
Games	Line Tracing Robot	Ardan Louis Luna Bahrt Manayaga	Vicente Mongcopa Negros Oriental HS

	Name of Student	Coach	School/District
QUIZ Elementary-Grade 6	Arne Jethro Caraig	Fe G. Estrellanes	Sta. Catalina
QUIZ Secondary-Grade 10	Dyann Tubio	Mr. Raul C Tubil	Dauin Science HS



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KAGAWARAN NG EDUKASYON
DEPARTMENT OF EDUCATION
REHIYON VII, GITNANG VISAYAS
REGION VII, CENTRAL VISAYAS
Sudlon, Lahug, Cebu City



OCT 09 2018

REGIONAL MEMORANDUM

No. 0749 s. 2018

REGIONAL SCIENCE AND TECHNOLOGY FAIR FOR SCHOOL YEAR 2018-2019

To: Schools Division Superintendents

1. This Office, through the Curriculum and Learning Management Division (CLMD) will conduct the Regional Science and Technology Fair (RSTF) for S.Y. 2018-2019 on November 8-10, 2018 at the Deped Ecotech Center, Sudlon, Lahug, Cebu City.
2. The RSTF aims to:
 - promote Science and Technology consciousness among learners;
 - identify the most creative/innovative and the best Science researchers who shall represent the Region in the National Science and Technology Fair;
 - encourage Science teachers' creativity in designing Strategic Intervention Materials (SIM); and
 - promote the use of technology in learning through Robot games.
3. Participants are the First Place winners of the respective SDOs for the Science Research competition (Researchers and Research Advisers), whose entries have been approved by the Regional Scientific Review Committee, First Place innovators/inventors, First Place elementary and secondary SIM Writers, student-contestants and coaches for the Science Quiz and Robot Games, Division Science Education Program Supervisors, CID Chiefs and Schools Division Superintendents.
4. The research plan and scientific research paper must follow the format specified in the ISEF Rules. All research projects from the school to the regional level must undergo peer, teacher and expert evaluation.
5. The required research forms and manuscripts, paper invention reports, copies of SIMs shall be submitted to the Regional Office on or before October 23, 2018 and must be endorsed by the respective Schools Division Offices. The screening of the research projects shall be conducted on October 25-26, 2018 at the Regional Office by the Regional Scientific Review Committee. The qualifiers for the Research Competition will be released through a Regional Memorandum while the entries for the Science Innovation Expo, SIM, Science Quiz and Robot Games shall automatically advance to the Regional Science and Technology Fair 2018-2019.

Office of the Director (ORDir), Tel. Nos.: (032) 231-1433; 231-1309; 414-7399; 414-7325; Office of the Assistant Director, Tel. No.: (032) 255-4542
Field Technical Assistance Division (FTAD), Tel. Nos.: (032) 414-7324 Curriculum Learning Management Division (CLMD), Tel. Nos.: (032) 414-7323
Quality Assurance Division (QAD), Tel. Nos.: (032) 231-1071 Human Resource Development Division (HRDD), Tel. No.: (032) 255-5239
Education Support Services Division (ESSD), Tel. No.: (032) 254-7062 Planning, Policy and Research Division (PPRD), Tel. Nos.: (032) 233-9030;
414-7065 Administrative Division, Tel. Nos.: (032) 414-7326; 414-4367; 414-7366; 414-7322; 414-4367
Finance Division, Tel. Nos.: (032) 256-2375; 253-8061; 414-7321

" EFA 2015: Karapatan ng Lahat, Pananagutan ng Lahat "

6. Enclosed are the following documents for reference:

Enclosure No. 1 - RSTF Management Team;

Enclosure No. 2 - Program Schedule Matrix;

Enclosure No. 3 - Schedule for Check-in/out and First and Last Meals;

Enclosure No. 4 - Guidelines on the STF

Schematic Diagram on the Flow of STF Activities

Format of Research Paper

Format of Paper Invention Report

Format of Display Board for the Innovation Expo

Format of the Data and Report

Checkpoints for SRC Review

SRC Review and Recommendation Report

BOJ Project Evaluation Form

Enclosure No. 5 - Robot Games Official Game Rules

Sumobot Official Game Rules

Line Tracing Official Game Rules

Enclosure No. 6 - Mechanics for Science Quiz

Enclosure No. 7 - Criteria for Strategic Intervention Material (SIM)

7. A registration fee of Two Thousand Nine Hundred Pesos (P 2,900) shall be collected from each participant to cover the expenses for board and lodging, venue, honoraria of judges, prizes and materials needed for the conduct of the Regional STF.

8. Registration fee and travel expenses that will be charged from each participant are chargeable against Division/School MOOE/RSHS/local funds and other fund sources subject to the usual accounting and auditing rules and regulations.

9. The Division Science Supervisors and RSTF Staff/Organizers are requested to report on November 7, 2018, 1:00 PM at the venue for the briefing and final preparations for the said event.

10. Teacher-participants and coaches shall be entitled to service credits in accordance with the provisions of DepEd Order No. 53, s. 2003. Likewise, non-teaching personnel including the RSTF Management Staff and Organizers shall be provided with Compensatory Time-Off (CTO) per CSC and DBM Joint Circular No. 2, s. 2004.

11. Immediate dissemination of, and compliance with this Memorandum is directed.


JULIET A. JERUTA, Ph. D., CESO IV
Director IV
Regional Director

Enclosure No. 2 to Regional Memorandum No. _____, s. 2018

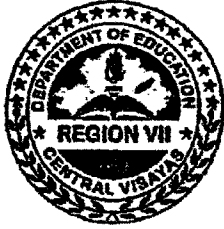
REGIONAL SCIENCE AND TECHNOLOGY FAIR
November 8-10, 2018
Deped Ecotech Center

PROGRAM SCHEDULE MATRIX (PSM)

TIME	DAY 0	DAY 1	DAY 2
8:00 – 10:00 AM		Opening Program	Research Congress
10:01 – 12:00 NN		On-Site Interview for the Science Research Competition / Innovation Expo Strategic Intervention Materials Presentation / Robot Games Science Quiz	
12:01 – 1:00 PM	Arrival & Registration Setting-Up of Project Display	Lunch Break	
1:01 – 3:00 PM		On-Site Interview for the Science Research Competition / Innovation Expo Strategic Intervention Materials Presentation / Robot Games Science Quiz	Project Teardown
3:01 – 5:00 PM			Awarding Ceremony

Schedule for Check-In/Out and First/Last Meals

Check-in	First Meal	Check-out	Last Meal
2:00 PM November 8, 2018	Dinner of November 8, 2018	12:00 NN November 10, 2018	Lunch of November 10, 2018



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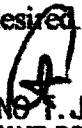
OCT 31 2018

REGIONAL MEMORANDUM
No. 0823 s. 2018

**RESULTS OF THE SCIENTIFIC REVIEW COMMITTEE (SRC) SCREENING
OF SCIENCE INVESTIGATORY PROJECTS AND QUALIFIERS FOR THE
REGIONAL SCIENCE AND TECHNOLOGY FAIR FOR S.Y. 2018-2019**

To: Schools Division Superintendents

1. This Office announces the Qualifiers for the Research Competition for Regional Science and Technology Fair (RSTF) for School Year 2018-2019 on November 8-10, 2018 at the DepEd Ecotech Center, Sudlon, Lahug, Cebu City.
2. Participants for the Science Innovation Expo, Science Quiz, Robot Games and Science Intervention Material Writing shall automatically advance to the RSTF.
3. The Division Science Supervisors and RSTF Staff/Organizers are requested to report on Day 0 (November 7, 2018 – 1:00 PM) at the venue for the briefing and final preparations for the said event.
4. Every schools division is allowed to send a maximum of two (2) observers for the RSTF.
5. Immediate and wide dissemination of this Memorandum is desired.


SALUSTIANO F. JIMENEZ, CESUw,
VIC-ASSISTANT REGIONAL DIRECTOR
JULIET A. JERUTA, Ph.D., CESO IV
Director IV
Regional Director

IAI/STI/EBEJ/shs
CLMD'18

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Finance Division, Tel. Nos.: (032) 256-2375; 253-8061; 414-7321

"ESQ 2015: Kawapatan ng Lahat, Pananagutan ng Lahat"

RESEARCH COMPETITION

LIFE/BIOLOGICAL SCIENCE INDIVIDUAL – ELEMENTARY						
No.	Title of Investigation	Researcher	Adviser	Code	School	Division
1	The Efficacy of Fish Gills Essence as Organic Fertilizer on Tomato Plant	John Libren Sepca	Estrellita Bordario	E-LSI-1	Casili ES	Mandaue City
2	Anticidal Effect of <i>Citrus microcarpa</i>	Cheska Franz Janson	Mary Ann Alberca	E-LSI-2	Valladolid ES	Carcar City
3	Powdered Sugar Apple and Black Peppercorn Seeds as Mosquito Larvicide	Bryce Logrono	Grace Torres	E-LSI-3	Tanjay City South CS	Tanjay City
4	Utilization of Rubbish as an Alternative of Natural Soil in Growing Mung Bean	John Cedric Durana	Josette Catacutan	E-LSI-4	Bais City SSES	Bais City
5	The Efficacy of "Cardava" Banana Peels and Eggshells as Organic Liquid Fertilizer	Baby Trisha Quimod	Ritchelle Arcillas	E-LSI-5	Bogo Central School II	City of Bogo
6	"Kamsal" Kamaog with Salong: Alternative for Commercial Roof Sealant	Eashe Mae Lusarito	Adeline Talisayan	E-LSI-6	Basak ES	Guihulngan City
7	The Effectiveness of Fish Entrails and as Hydrolysate Fertilizer	Lawrence Vhiel Japitana	Marlowe Revoltado	E-LSI-8	Minglanilla ES	Cebu Province
8	Spinach as Weight Enhancer for Broiler Chicks	Christian Philip Alabatón	Nefe Gwendolyn Benlot	E-LSI-9	West City ES	Dumaguete City
9	Efficacy of Moringa oliefera Lam Seed Extract Against <i>Colletotrichum capsici</i> Causing Anthracnose to <i>Capsicum annum</i>	Gica Mykhaella Medel	Analyñ Uy	E-LSI-10	Lahug ES	Cebu City

LIFE/BIOLOGICAL SCIENCE TEAM – ELEMENTARY						
No.	Title of Investigation	Researcher	Adviser	Code	School	Division
1	The Potential Effect of Fermented Calabash Fruit Juice as Biofertilizer on the Growth of Pechay Plants	Orneah Mae Seares Lexel Buytrago Fiona Roselle Malabago	Arnel Honculada	E-LST-1	Cabancalan 1 ES	Mandaue City
2	Mahogany Seeds and Siling Labuyo Fruit Extract: Homemade Termiticide	Earl Jericho Manos Riel Renzo Omadho Vence Jayme	Edjaly Bation	E-LST-2	Siquijor Central School	Siquijor
3	Long Way of Inhibiting Mangoes Using Lemon Grass Extract with Vinegar	Czarina Nicole Arnado Franz Nicole Bacus Vanz Shirby Racho	Grace Amance	E-LST-3	Tayom ES	Carcar City
4	The Potential Efficacy of Tobacco Extract as a Termiticide	Lord Arth Dela Torre Labina Mae Gilbuena Angel Ramosola	Sharon Torculas	E-LST-4	Bohol Wisdom School	Tagbilaran City
5	Malupaba Ointment on Athlete's Foot	Shiello Anne Lodrita Athena Amantado Louise Novero	Maximo Virador	E-LST-5	Soom Integrated School	Bohol
6	Kakawate "Madre de Cacao" and Malungay "Moringa" Leaves Extract as Organic Fertilizer	Yhen Meagna Site Aniyah Marie Abao Maxine Gansiao	Meralie Tiquello	E-LST-6	Bogo Central School II	City of Bogo
7	Cassia Alata as Mosquito Repellant	Margilyn Arellano Lyka Blanco Ken Bucog	Cora Gabuya	E-LST-7	Filomena Aranas MES	Guihulngan City
8	Human Urine: Effective and Costless Rice Field Pest Control	Francis Alifabao Jeyah Marie Rodriguez Mark Mayagaa	Challen Abadilla	E-LST-8	Bato ES	Negros Oriental

9	Larvicidal Efficacy of Oregano Powdered Dried Leaves Against <i>Aedes aegypti</i>	Bona Bonganciso Karlo Quinaia Princess Lastimosa	Noviera Leoligao	E-LST-9	Kakawisan ES	Lapu-Lapu City
10	The Efficacy of Chicken Eggshells as Alternative Soil Neutralizers	Zedrick Llanto Quimrad Ruiz Sienna Felicity Albaracin	Marlowe Revoltado	E-LST-10	Minglanilla SSES	Cebu Province
11	The Effects of Crushed Seashells as Mulch Fertilizer to the Growth of Pechay Plants	Kaye Barredo Christine Tano Emmanuel Madaiton	Jenie Musketer	E-LST-11	Calindagan ES	Dumaguete City
12	"AMR-Superbugs" Against Okra Seed Extracts	Danesse Cisneros Brendon Manliguez Shabara Salazarbot	Analya Uy	E-LST-12	Lahug ES	Cebu City

APPLIED/PHYSICAL SCIENCE INDIVIDUAL - ELEMENTARY

No	Title of Investigation	Researcher	Adviser	Code	School	Division
1	The Efficacy of Banana Peelings and Polyethylene Bag as Ingredients in Making Floor Wax	April Mae Lasaca	Mayet C. Capait	E-PSI-1	Canduman ES	Mandaue City
2	Sea Urchin Shell Powder as Retardant Agent in Candle Making	Georgina Alexa Quidlat	Maricel Calimpong	E-PSI-2	Siguilor Central ES	Siguilor
3	Banana Peel, Corn and Cassava Starch as Bioplastic	Cyril Jade Moragat	Brian Baluca	E-PSI-3	Tagbilaran City Central School	Tagbilaran City
4	Microscopic-M	Sean Paul Sarabosing	Elvira Boysillo	E-PSI-5	Ubay Central ES	Bohol
5	A Comparative Analysis on the Effectiveness of Star Fruit Crude and Table Salt Mixture as Rust Remover Against Commercially Available Rust Remover	Angel Mae Aniñon	Maria Danica De Villa	E-PSI-6	Bais City SSES	Bais City
6	Development of Active Evaporative Cooling System for Short-term Storage of Vegetables	Zhane Erica Barro	Sheryl Mae Reyes	E-PSI-7	CBSAA	City of Bogo
7	Candle-Powered Thermoelectric Charger	Reanne Guad	Zenaida Alonzo	E-PSI-8	Albigo ES	Negros Oriental
8	The Growth and Fruit Production of Bell Pepper using Watermelon Peels and Seeds	Mark Lawrence Caroro	Levi Mari	E-PSI-9	South City ES	Dumaguete City

APPLIED/PHYSICAL SCIENCE TEAM - ELEMENTARY

No	Title of Investigation	Researcher	Adviser	Code	School	Division
1	The Utilization of Jackfruit Exocarp in Making an Organic Paste	Kurt Clyve Melocio Nicole Rechie Noynay Maurice Pasana	Charlene Ypil Licay-licay	E-PST-1	Pagsabugan ES	Mandaue City
2	Banana Peel, Calamansi Juice Mixture as an Alternative Skin Moisturizer	Cherry Flor de Jesus Princess Thea Tampus Alexandra Bejarin	Josephine Paredes	E-PST-2	Manasa ES	Tagbilaran City
3	Spider Plant and Aloe Vera Plant as Carbon Monoxide Filtering Agent of Motorcycle Exhaust	Pol Joshua Barte Marc Draeco Bayawa Ave Andrie Pizafia	Virginia Benologa	E-PST-3	Bayawan City East CS	Bayawan City
4	INK-C	Vrenice Marien Abad Princess Joy Flor Zedrick Ivan Samputon	Ma. Vanessa Amora	E-PST-4	Ubay CES-SSES	Bohol

5	Cassava Peelings and Used Papers as Alternative Materials for Particle Board Production	Cebie Madeja Glynnis Tipontipon Gitchia Vhan Canama	Rona Andrino	E-PST-5	CBSAA	City of Bogo
6	Geodorum Desiflorum as an Alternative Adhesive fro Broken Ceramics Compared to the Commercial Rubber Cement	Vounie Claire Bajao Hannah Serfino Bea Terni	Maybela trinidad	E-PST-6	Don Pelagio Villegas MES	Guihulngan City
7	Bricks Made of Plastic Bottles	Roque John Alabata Prince Gian Trunata Casey Tuballa	Vicenta Bobis	E-PST-7	Dain CS	Negros Oriental
8	The Feasibility of Acacia Leaves, Flowers, Fruit and Tree Barks as an Alternative Pin Board	Joelo Caadlawon Ganielle Zafico Yezhia Boniel	Maria Theresa Deloria	E-PST-8	Bangkal ES	Lapu-Lapu City
9	Push Pin Board Made of Crushed Corn Cobs	Seth Omictin Jed Andrae Angay Athron Diputado	Geraldine Coco	E-PST-9	West City Science ES	Dumaguete City
10	The Feasibility Study of Chromolaena odorata Aqueous Leaf Extract as Handmade Soap	Francesca Jalandon JM Gragata Marica Recla	Analya Uy	E-PST-10	Lahug ES	Cebu Cty

LIFE/BIOLOGICAL SCIENCE INDIVIDUAL – SECONDARY

No.	Title of Investigation	Researcher	Adviser	Code	School	Division
1	In Vitro Analysis of the Antioxidant Property of Chitosan Extracted from Queen Scallops Shell Waste	Rigel Kent del Fierro	Rachel Ann Bala	S-LSI-1	Mandaue City Science HS	Mandaue City
2	Panyawan-Red Chili Extract: Potential as Ant Repellant	Pia Mouri Diaz	Cybill Marie Omoc-oc	S-LSI-2	San Antonio NHS	Siquijor
3	Antibacterial Activity of Lato Against <i>Escherichia coli</i>	Shane Therese Barbado	Farah Madrio	S-LSI-3	Ocaina NHS	Carcar City
4	Plankton Production in Brackish Water Aquariums Using Chicken Manure and Vermicast	Jairus Ismael Chiu	Resa Nina Jacob	S-LSI-4	Tagbilaran City Science HS	Tagbilaran City
5	Comparative Study of Cogon Grass and Conventional Substrate on the Growth and Yield of Oyster White Mushroom	Irina Dia	Marisol Marfiel	S-LSI-5	Bayawan City STEC	Bayawan City
6	Utilization of Lemon Grass as Mosquito Repellent Lotion Bar	Chriselle Joy Rubia	Princess JS Comcom	S-LSI-6	Tanjay City Science HS	Tanjay City
7	The Effect of Gibberellic Acid from <i>Fusarium oxysporum</i> on the Morphological Development of Mung bean and its Bio-absorbent Property on Soil Exposed to Lead Stress	Imma Heart Labagala	Carl Lawrence Leray	S-LSI-7	Talisay City Science HS	Talisay City
8	Bunga and Hagonoy Leaves as an Alternative Protein Source for Native Chicken Feed	Stephen Jacobe	Nenianeth Barriga	S-LSI-9	Ramon M. Durano Sr. Foundation STEC	Danao
9	A Comparative Study on the Anti-Microbial Activity of Pansit-Pansitan Leaves Extract and Amoxicillin Against <i>S. Aureus</i>	Shanne Nina Picante	Carmelo Jamito Jr.	S-LSI-10	Bais City National Science HS	Bais City
10	Antimicrobial Evaluation of Kanding-Kanding and Bila-Bila Leaf Extracts Against <i>Staphylococcus epidermidis</i>	Kesley Guino-o	Krizzah	S-LSI-11	CBSAA	City of Bogo
11	In Vitro Evaluation of Antimitotic and Antiproliferative Activity of Ethanolic Extracts of Lusy in <i>Allium cepa</i> Assay and <i>Saccharomyces cerevisiae</i> Yeast Model Assay	Ken Simon Cabrera	Sophia Marie Villacencio	S-LSI-12	Naga NHS	City of Naga

12	The Growth of <i>Allium fistulosum</i> in Aquaponics Agricultural System	Lhea Krishna Retes	Anacita Malabay	S-LSI-13	Guihuingan NHS	Guihuingan City
13	"Makabuhay" Leaves Extract as Termite Killer	Zyra Jaye Conde	Michelle Alvez	S-LSI-14	Toledo City Science HS	Toledo City
14	Phytochemical Screening and Teraicidal Activity of Napier Grass Plant Crude Extract on <i>Coptotermes sp.</i>	Precious Lane Laranjo	Jade Bacon	S-LSI-17	Minglanilla Science HS	Cebu Province
15	Anti-hyperglycemic Property of Pandakaki-Puti and Its Efficacy in Blood Sugar Levels Using Male Sprague Dawley Rats	Drixie Mae Larazi	Ferrera Oira	S-LSI-18	RTPM-DSHS	Damaguete City
16	Evaluation of Antagonistic Activity of <i>Trichoderma viride</i> and <i>Metarhizium anisopliaea</i> against Phytopathogenic <i>Fusarium oxysporum</i> as Biological Control	Ed Danielle Tundag	Marhee Picardal	S-LSI-19	Don Vicente Rama MNHS	Cebu City

LIFE/BIOLOGICAL SCIENCE TEAM – SECONDARY

No.	Title of Investigation	Researchers	Advisor	Code	School	Division
1	Enhancement of Innate Immunity of Pacific White Shrimp Using Chitosan Extract from Green Mussel Shell Wastes and Sulfated Polysaccharide from Brown Seaweed	Aaron Gabriel Vitorillo James Kenneth Retubado Frendale Jaze Macopin	Rachell Ann Bala	S-LST-1	Mandaue City Science HS	Mandaue City
2	The Anti-parasitic Activity of Talisay Leaves Against Caligid Parasites on Pompano Fish	Saimon Anino Arthur Eban Dianne Madaje	Hermilo Arbuys Jr	S-LST-2	Bobol Wisdom School	Tagbilaran City
3	Oxygen Production Capacity of Needle Sea Grass with Sunscreen in a Photosynthesis Set-up	Hersly Cate Villegas Dominique Dimagnaong Alose Mae Malinao	Karl Roy Mamhot	S-LST-3	Luzi National Agricultural School	Siquijor
4	The Biodegradation of Polyethylene Terephthalate (PET) Plastics at Various Soil Samples	Leila Patriz Dayagan Honey Ancaor Padia Khennyl Labra	Farah Madrio	S-LST-4	Ocaña NHS	Carcar City
5	Comparative Study of Compost Tea and Natural Fermented Solution on the Growth and Yield of Lettuce Through Hydroponics	Merry Louie Cadalso Francis Gayondato Chyzyle Sumugat	Marisol Marfiel	S-LST-5	Bayawan City STEC	Bayawan City
6	Phytochemical Evaluation and Anti-Angiogenic Property of Binuang Leaf Extract on Duck Eggs Using Chorioallantoic Membrane Assay	Amardo Loreno IV France Cielo Tingal Rhemia Li Capisan	Carl Lawrence Leray	S-LST-6	Talisay City Science HS	Talisay City
7	Presence of Microplastics in Bivalves as Environmental Indicator of Water Pollution in Selected Marine Estuaries of Danao City	Vince Robert Enriquez Lanie Venoes Gomez Nissa Marie Salva	Nenianeth Barriga	S-LST-8	Ramon M. Durano Sr. Foundation STEC	Danao
8	Human Hair Waste, Cow Bone Meal and coconut Wood Ash as Eggplant Fertilizer	Riza Alarcon Cleofe Asenas Charlestine Cabalida	Carmelo Jamito Jr.	S-LST-9	Bais City National Science HS	Bais City
9	Antibacterial Activity of the Ethanolic Extract of Okra Fruits Against <i>Staphylococcus aureus</i> and <i>Escherichia coli</i> : An <i>In Vitro</i> Study	Davy Joy Baba Andrenelle Colorito	Maricel Dabucol	S-LST-10	CBSAA	City of Bogo
10	Anticoagulant Activity of "Samu-sa-Bato" on ICR Mice Blood	Kyla Gozma April Conocasad Gerahan Alfonso	Sophia Marie Villacencio	S-LST-11	Naga NHS	City of Naga
11	Korokorosan Plant Extract as Fungicide	Joanne Alberta Shayne Cimafranca Stephanie Rabi	Sarah Jane Imo	S-LST-13	Toledo City Science HS	Toledo City
12	Evaluation of Antiangiogenic Potential of <i>Origanum vulgare</i> Crude Leaf Extract Using In Ovo Cam Assay	Christian Jude Baring Shiela Casio Shonara Angud	Nova Sebarios	S-LST-15	Mactan NHS	Lapu-Lapu City
13	Phytochemical Analysis and Antimitotic Activity of Lato Determined Through Onion Assay	Louis Daniel Amor Nicole Art Avelaneda Flory Mae Gudra	Sergio Jacobo III	S-LST-16	Compostela NHS	Cebu Province

14	Banana Peel Extract: Its Effect Towards Larvae Termination on Stagnant Water	Gwyneth Hongmay Sheridan Batiancila Kaye Banna	Mildred dela PEña	S-LST-17	Dumaguete City HS	Dumaguete City
15	Antibacterial activity and Phytochemical Screening of Goto kola Leaf Extract Against <i>E. Coli</i> and <i>Bacillus cereus</i>	J. Kylee Lamosad Jonzbergio Masing Nifa Segota	Ferrera Oira	S-LST-18	RTPM-DSHS	Dumaguete City
16	Efficacy of Botong Seed Extract as an Inhibitor to <i>E. coli</i> and <i>Staphylococcus aureus</i> and its Implications to the Development of Antibiotic Resistance in Pathogenic Microorganisms	Bridgette Benofitno Eugene Eve Reyes	Mary Ann Bacalso	S-LST-19	Cebu City National Science HS	Cebu City

APPLIED/PHYSICAL SCIENCE INDIVIDUAL – SECONDARY

No.	Title of Investigation	Researcher	Adviser	Code	School	Division
1	Biosorption of Copper Industrial Waste Effluents Using Chitin Extract from Mud Crab and White Leg Shrimp Shell Wastes	Kate Guinocor	Mary Grace Orcia	S-PSI-1	Mandana City Science HS	Mandana City
2	GASTIC: polylactic Acid Production by Gelatinization and Polymerization of Taro/Gabi	Mark Gelson Panganoron	Karl Roy Mamhot	S-PSI-2	Lazi National Agricultural School	Siquijor
3	Fabrication of a Cheaper Alternative to an All-in-One Magnetic Stirrer and Hot Plate	Zak Floreta	Farah Madrio	S-PSI-3	Ocaña NHS	Carcar City
4	Mussel Shell as a Main Component for Carbon Dioxide and Carbon Monoxide Emission Filter on Motored Vehicles	Pia Allyssa Remolador	Florafel Datoy	S-PSI-4	Tagbilaran City Science HS	Tagbilaran City
5	The Ficus Amstel Queen as Bio-Microbial Plant Cell	John Joshua Villaflores	Princess JS Comcom	S-PSI-5	Tanjay City Science HS	Tanjay City
6	Green Synthesis and Characterization of Titanium Dioxide Nanoparticles Using Leaf Extracts of Oregano for Photocatalytic Degradation Against River Wastewater	Reena Maye Mata	Glendale Niadas	S-PSI-6	Tanjay City Science HS	Tanjay City
7	El Polo Organic Adhesive	Elgene Vic Montecillo	Miriam Actub	S-PSI-7	Sierra-Bullones Tech-Voc HS	Bohol
8	Aquatic Garbage Collector	John Francdel Costan	Nenianeth Barriga	S-PSI-8	Ramon M. Durano Sr. Foundation STEC	Danao
9	Effect of Fishpond Soil on the Growth Performance of Pechay	Shane Arthur Bendolo	Maria Trinidad Uy	S-PSI-9	Bais City National Science HS	Bais City
10	Performance Evaluation of an Oscillating Hydropower Turbine	Ma. Eden Keith Pevida	Joane Cauagdan	S-PSI-10	CBSAA	City of Bogo
11	Solar-Powered Microbial Fuel Cell Generating Electricity from Mud and Carabao Manure with the Integration of <i>E. coli</i>	Gene-Rose Lascuna	Margie Abrego	S-PSI-11	City of Naga Enhanced Special S&T HS	City of Naga
12	Vaccinium Macrocarpon Extract With Corn Starch as Powdered Food Color	Mary Rechelle Rublico	Anacita Malahay	S-PSI-12	Guibulegan NHS	Guibulegan City
13	Flood Warning Device: A Two Way Water Level Indicator	Christy Jane Fortich	Mary Jane Cacas	S-PSI-13	Manjuyod Science HS	Negros Oriental
14	Project RAIN	Christian Folkestad	Bryant Acar	S-PSI-14	Lapu-Lapu STEC	Lapu-Lapu City
15	The Feasibility of Oregano In Accumulating Lead Content in Soil	Julmar Bruce Parages	Julito Baga	S-PSI-15	Minglanilla Science HS	Cebu Province
16	Bioaccumulation of Lead and Phosphate Contaminated Water Using Tangan-Tangan Plant	Shauna Tifora	Ferrera Oira	S-PSI-16	RTPM-DSHS	Dumaguete City

17	Ponderous Ark Shells as a Gravel Substitute in Hollow Block Making and Its Effect to the Quality of the Rocks	Sylvia Anna Distrito	Sandra Tan	S-PSI-17	Jacob NHS	Dumaguete City
18	Mango Wood Vinegar as Chemical Treatment in Broiler on Reducing the pH and Bacterial Population	Novielyn Tangon	Karen Mac Telmo	S-PSI-18	Bayawan City STEC	Bayawan City
19	Alcohol-Lamp Power Generator: Light Source and Charger	Franz Joe Numer	Rosemarie Apao	E-PSI-19	Lahog NHS	Cebu City

APPLIED/PHYSICAL SCIENCE TEAM – SECONDARY

No.	Title of Investigation	Researcher	Adviser	Code	School	Division
1	The Potential of Calcium Carbonate Extracted from Philippine Green Mussel Shell Wastes as an Additive of Vinyl Ester Resin from Hard Anti-Fouling Paints on Shipping Vessels	John Martin Sulina Fritz Gerald Peritos Merry Rose Cabete	Mary Grace Orcia	S-PST-1	Mandaue City Science HS	Mandaue City
2	Aloeum Extract as Green Corrosion Inhibitor on Mild Steel in Hydrochloric Acid Medium	Alyssa Reese Lantaca Sean Clej Larena Ginefer Salim	Izel Daug-Quidlat	S-PST-2	Siquijor Provincial Science HS	Siquijor
3	Minimization of Carbon Monoxide and Carbon Dioxide Using Cogon Grass as a Muffler Filter	Francis Alegrbes Edge John Oca Leah Remolisan	Farah Madrio	S-PST-3	Ocala NHS	Carcar City
4	A Comparative Study on the Compression Strength and Flexural Strength of Ordinary Concrete and Concrete Mixed with Rice Husks, Mahogany Wood Ashes and Coco Sawdust	Raphael Orilla Paolo Josh Te Hanna Fatima Plazos	Hermilo Arbuycs Jr	S-PST-4	Bohol Wisdom School	Tagbilaran City
5	Comparative Study of Human Urine and Organic Mixture as Insect Attractant	Vivien Blaise Bajardo Arriane Kate Sanooy Maria Ariane Hoyoboy	Marisol Marfiel	S-PST-5	Bayawan City STEC	Bayawan City
6	Automatic Flushing Setup for Male Restrooms	July Bilangdal Nathalie Ochavillo April Rosales	Princess JS Comcom	S-PST-6	Tanjay City Science HS	Tanjay City
7	The Green Synthesis and Characterization of Gold Nanoparticles Using Sambong Leaf Extract: A Colorimetric Sensor for Lead	Kylie Nicole Villalor Hannah Mac Habel Charles Cedrick Canton	Glendale Niadas	S-PST-7	Tanjay City Science HS	Tanjay City
8	Conversion of Plastic Wastes as a Fuel Substitute Through Pyrolysis	Lord Kelvin Abellana Cielo Mac Mauro Lyza Mae Calotes	Lorna Abellana	S-PST-8	Mayor Anunciano R. Tuzan National School of Fisheries	Bohol
9	Sea Lettuce as a Potential Adsorbent of Chromium and Oil Present in Wastewater	Nino Rey Armas Krys Castro Jean Claire Caballes	Nenianeth Barriga	S-PST-9	Ramon M. Durazo Sr. Foundation STEC	Danao
10	Comparative Degradation of Biodegradable Plastics made of Cassava Starch and Corn Starch	Kenneth Basona Lana Maxine Gargantiel John Inure Lasmarias	Maria Trinidad Uy	S-PST-10	Bais City National Science HS	Bais City
11	Electricity Generation of a Run-of-Stream Turbine Installed in the Water Stream: A Feasibility Study	Gwyneth Migabon Myrelle Garcia Alhain Veraces	Chastren Soon	S-PST-11	CBSAA	City of Bogo
12	Pozzolanic Reaction of Rice Husk Ash and Sugarcane Baggase Ash as Geopolymer Concrete	Patricia Cuevas John Auresstila James Talbo	John Ryan Dacalos	S-PST-12	Naga NHS	City of Naga
13	Efficacy of Cassia Alata Leaves Extract as an Alternative Treatment for Pediculosis	Jenessa Sumiga Jenouae Cañas Mary Cris Zata	April Mary Portares	S-PST-13	Guibugangan NHS	Guibugangan City
14	Modified Energy Saver for Cooking	Jelly Cortes Cindy Lisao Christelle Estreca	Felix Uriarte	S-PST-14	Don Andres Soriano NHS	Toledo City
15	Decorative Tile Using Eggshells	Khyla Acab Gwyneth Flores	Florentina Pasajungue	S-PST-15	Negros Oriental HS	Negros Oriental
16	In Vitro Pediculicidal Efficacy of <i>Azadirachta indica</i> Leaf Extract Against <i>Pediculus humanus capitis</i>	Jhoniel Casenillas Jean Apa Tricia Jarapan	Karen Tampus	S-PST-16	Mactan NHS	Lapu-Lapu City

17	Absorption of Lead (II) in Water by Activated Carbon from Samo	Mary Christine Nogra Francis Secuya Hannuel Porio	Jean Alad	S-PST-17	Minglanilla Science HS	Cebu Province
18	Bimetallic Sensor-Automated Irrigation System	Almond Cornelio Giordan Gabas Selwyn Villarez	Mary Bañica	S-PST-18	RTPM-DSHS	Dumaguete City
19	Comparative Study on Jackfruit Peels and Pomelo Peels as Alternative Charcoals	Clariza Mae Cadiao Graciela Laping Jasmine Gaudan	Sandra Tan	S-PST-19	Junob NHS	Dumaguete City
20	Project STEP	Marc Pocong Katriel Gantabao	Mary Ann Bacalso	S-PST-20	Cebu City National Science HS	Cebu City

ROBOTICS AND INTELLIGENT MACHINES (RIM) - INDIVIDUAL

No.	Title of Investigation	Researcher	Adviser	Code	School	Division
1	AUTOFAN	Francheska Faye Tomines	Nenianeth Barriga	S-RIMI-1	Ramon M. Durano Sr. Foundation STEC	Danao
2	Dual Technology-based Motion Sensing Home Security System With WIFI Configuration Device and SMS Alert	Cherisse Melendres	Algen Oñing	S-RIMI-2	CBSAA	City of Bogo
3	Indoor Carbon Dioxide and Total Volatile Organic Compounds Measuring Device Using Arduino UNO Technology	Arki Ronan Bongo	Margie Abrego	S-RIMI-3	City of Naga Enhanced Special S&T HS	City of Naga
4	SAVER: Scintillating Aider Valiant Explorer Robot	Christia Tangin	Bryant Acar	S-RIMI-4	Lapu-Lapu STEC	Lapu-Lapu City
5	Prototype Heart Rate Wrist Monitor Alert System With GSM and GPS Module	Sheena Mae Jaquez	Rowena Espinosa	S-RIMI-5	Badian NHS	Cebu Province
6	Cerebellum AI: Computer Aided Movement Using Inverse Kinematics	Jerel Veralde	Fragelyn Ibaoc	S-RIMI-6	AMA Computer University	Cebu City
7	Robot Vacuum Cleaner Powered by Arduino UNO	Yves Xaviery	Cherryl Hongouay	S-RIMI-7	Mabinay Science HS	Negros Oriental

ROBOTICS AND INTELLIGENT MACHINES (RIM) - TEAM

No.	Title of Investigation	Researcher	Adviser	Code	School	Division
1	Waste Sorter Prototype	Ariel Veronica Madangait Genevieve Magpayo Lark Gamaliel Dacayana	Giovanni Reformina	S-RIMT-1	Tagbilaran City Science HS	Tagbilaran City
2	Robotic Vacuum Cleaner	Krayville Calumpang Helgoerose Villacampa Paul Yacso	Princess JS Comecon	S-RIMT-2	Tanjay City Science HS	Tanjay City
3	Arduino UNO Carbon Dioxide Detection and Pollution Fume Filtering Drone	Emmanuel Elca Kelly Andre Macarayan Marc Daniel Pastor	Glendale Niadas	S-RIMT-3	Tanjay City Science HS	Tanjay City
4	Arduino-Powered Water Level Detector With Alarm and SMS Notification System	Jason Grayson Boligrao Claire Belle Candia Jingjing Boligrao	Ronald Rey Resabal	S-RIMT-4	Tubigon West Central HS	Bohol
5	Project ACOOBot	Hannah Embalzado Deborah Enriquez Allen Quiros	Nenianeth Barriga	S-RIMT-5	Ramon M. Durano Sr. Foundation	Danao

					STEC	
6	Bluetooth Controlled Motorcycle Starter Using Arduino UNO Bluetooth Module and Servo Motor	Adrian Ley Cancio Nica-J Cuid Kylie Elaine Manninen	Carmelo Jamito Jr.	S-RIMT-6	Bais City National Science HS	Bais City
7	3D-Printed Gizduino-based Vein Finder System for Intravenous (IV) Therapy	Sienna Mabuti Ivan Dela Cruz Princess Rodrigo	Irey Soon	S-RIMT-7	CBSAA	City of Bogo
8	Autonomous Mobile Floating Monitoring Device for Marine Water Quality	Joseph Otaza Erwin Pia Jazmya Buzgabong	Sophia Villacencio	S-RIMT-8	Naga NHS	City of Naga
9	Project METUS: Medical Tumor Scanner	Arkan German John Pontino Kent Defuntorum	Bryant Acar	S-RIMT-9	Lapu-Lapu STEC	Lapu-Lapu City
10	Use of Arduino-based Ultrasonic Range Finder and Light Dependent Resistor in Vehicle Distance Detection	Gabrielle Armamento Sanc Ennac Neil Povadora	Claire Evangelista	S-RIMT-10	Consolacion NHS	Cebu Province
11	Air Quality Monitoring Drone Prototype	Ericka Diputado Anjeli Mercedo Irish Quillao	Ferrera Oira	S-RIMT-11	RTPM-DSHS	Dumaguete City
12	Raspy: Garbage Collector Robot	Michelle Laurel Smale Soquino Hannah Villar	Reggie Sy	S-RIMT-12	Talamban NHS	Cebu City