



October 31, 2018

Division Memorandum

No. 762, 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: Assistant Superintendents  
Chiefs, SGOD and CID  
Education Supervisors/ Coordinators  
District Supervisors/OICs  
Elementary and Secondary School Heads

1. Attached is Regional Memorandum No. 0823,s. 2018, dated October 31, 2018, entitled , " **Results of the Scientific Review Committee ( SRC ) Screening of Science Investigatory Project and Qualifiers for the Regional Science and Technology Fair for S.Y. 2018-2019** " .
2. Entries for other events such as Science Quiz ( Oral ) for Grade 6 and Grade 10 and Strategic Intervention Material (SIM) Teacher Category-Elem.& Sec. are automatically advance to RSTF.
3. School heads are directed to ensure that NO classes will be left unattended due to the involvement of the said teacher /s to this activity.
4. Immediate dissemination of this Memorandum is desired .

  
**RHEA MAR A. ANGTUD, Ed.D., CESO VI**  
Schools Division Superintendent



REPUBLIKA NG PILIPINAS  
REPUBLIC OF THE PHILIPPINES  
KAGAWARAN NG EDUKASYON  
DEPARTMENT OF EDUCATION  
**REHIYON VII, GITNANG VISAYAS**  
REGION VII, CENTRAL VISAYAS  
Sudlon, Lahug, Cebu City




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 T. JIMENEZ, CESUv,  
JIC-ASSISTANT REGIONAL DIRECTOR  
JULIET A. JERUTA, Ph.D., CESO IV  
Director IV  
Regional Director

JAJ/STI//EBE//sts  
CLMD'18

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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

*"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 Sepen	Estrellita Bordario	E-LSI-1	Casili ES	Mandaue City
2	Anticidal Effect of <i>Citrus microcarpa</i>	Cheska Franz Janson	Mary Ann Alberea	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	Minghinilla ES	Cebu Province
8	Spinach as Weight Enhancer for Broiler Chicks	Christina Philip Alabatón	Nefe Gwendolya Benlot	E-LSI-9	West City ES	Dumaguete City
9	Efficacy of Moringa oleifera Lam Seed Extract Against Colletotrichum capsici Causing Anthracnose to Capsicum annum	Gica Mykhaella Medel	Analya Uy	E-LSI-10	Labug 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 Baytrago Fiona Roselle Malabago	Arnel Honculada	E-LST-1	Cabancalan I ES	Mandaue City
2	Mahogany Seeds and Siling Labuyo Fruit Extract: Homemade Termiticide	Earl Jericho Manos Riel Renzo Omandao Yence Jayme	Edjaly Bation	E-LST-2	Siquijor Central School	Siquijor
3	Long Way of Inhibiting Mangoes Using Lemon Grass Extract with Vinegar	Czarina Nicole Amado Franz Nicole Bacus Yanz Shirby Racho	Grace Amance	E-LST-3	Tuyom ES	Carcar City
4	The Potential Efficacy of Tobacco Extract as a Termiticide	Lord Arif Dela Torre Labina Mae Gilbuena Angel Rumanola	Sharon Torculas	E-LST-4	Bohol Wisdom School	Tagbilaran City
5	Malupapa Ointment on Athlete's Foot	Shielle Anne Lodrita Athena Aumentado 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 Mengun Site Aniyah Marie Abao Maxine Guanalao	Meralie Tiquello	E-LST-6	Bogo Central School II	City of Bogo
7	Cassia Alata as Mosquito Repellant	Margilyn Arellano Lyka Blanco Keu Bucog	Cora Gabuya	E-LST-7	Filomena Aranas MES	Guihulngan City
8	Human Urine: Effective and Costless Rice Field Pest Control	Francis Alimabao Jeyah Marie Rodriguez Mark Mavayana	Challen Abadilla	E-LST-8	Bato ES	Negros Oriental

9	Larvicidal Efficacy of Oregano Powdered Dried Leaves Against <i>Aedes aegypti</i>	Bona Bongaciso Karlo Quinain Princess Lastimosa	Noviem Leoligao	E-LST-9	Kalwisan ES	Lapu-Lapu City
10	The Efficacy of Chicken Eggshells as Alternative Soil Neutralizers	Zendrick Llanto Quinnad Ruiz Siena Felicity Albaracin	Marlowe Revolteado	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 Madriton	Jenic Musketer	E-LST-11	Calindagan ES	Dumaguete City
12	"AMR-Superbugs" Against Okra Seed Extracts	Danesse Cisneros Brendon Manfiguez Shahara Salimbot	Analya Uy	E-LST-12	Lalug 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	Siquijor Central ES	Siquijor
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	Albiga 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 Clyde Melcio Nicole Rechie Noynay Maurice Pasana	Charlene Ypil Licay-licay	E-PST-1	Pagsabungan 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	Mansasa ES	Tagbilaran City
3	Spider Plant and Aloe Vera Plant as Carbon Monoxide Filtering Agent of Motorcycle Exhaust	Pol Joshua Barte Mare Draco Bayawa Ave Andric Pizaña	Virginia Benologa	E-PST-3	Bayawan City East CS	Bayawan City
4	INK-C	Vivance Marien Abad Princess Joy Flor Zedrick Ivan Semputon	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 Glymis Tipoutipon Gitchia Vhan Canama	Rosa Andriano	E-PST-5	CBSAA	City of Bogo
6	Geodorum Desiflorum as an Alternative Adhesive fro Broken Ceramics Compared to the Commercial Rubber Cement	Vounnie Claire Bajao Hannah Serfiao Bea Terui	Maybelen trinidad	E-PST-6	Don Pelagio Villegas MES	Guihulngan City
7	Bricks Made of Plastic Bottles	Roque John Alabata Prince Gian Trumala Casey Tuballa	Vicenta Bobis	E-PST-7	Datin CS	Negros Oriental
8	The Feasibility of Acacia Leaves, Flowers, Fruit and Tree Barks as an Alternative Pin Board	Joelo Candlawon Garielle Zafico Yezhia Boniel	Maria Theresa Deloria	E-PST-8	Bunkal 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 Jalandoon JM Gragata Marica Reela	Analya Uy	E-PST-10	Lahug ES	Cebu City

**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	Rachell Ann Bala	S-LSI-1	Mandaue City Science HS	Mandaue City
2	Panyawan-Red Chili Extract: Potential as Ant Repellant	Pin 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	Ocatia 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 Diao	Marisol Marfiel	S-LSI-5	Bayawan City STEC	Bayawan City
6	Utilization of Lemon Grass as Mosquito Repellent Lotion Bar	Chriscelle Joy Rubia	Princess JS Comecom	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 Jacobo	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 Lusak in <i>Allium cepa</i> Assay and <i>Saccharomyces cerevisiae</i> Yeast Model Assay	Ken Simon Cabren	Sophia Marie Villacencio	S-LSI-12	Naga NHS	City of Naga

12	The Growth of <i>Allium fistulosum</i> in Aquaponics Agricultural System	Lha Krishna Ketca	Anaeta Malabay	S-1-SI-13	Guthingon NHS	Guthingon City
13	"Makabuhay" Leaves Extract as Termitic Killer	Zyra Jaye Conde	Michelle Alvez	S-1-SI-14	Toledo City Science HS	Toledo City
14	Phytochemical Screening and Termiticidal Activity of Napier Grass Plant Crude Extract on <i>Coptotermes</i> sp.	Precious Lane Laranjo	Jade Bacon	S-1-SI-17	Mingmalha Science HS	Cebu Province
15	Anti-hyperglycemic Property of Pandakaki-Puti and its Efficacy in Blood Sugar Levels Using Male Sprague Dawley Rats	Dixie Mae Lanza	Ferron Oun	S-1-SI-18	RTPM-DSHS	Dumaguete City
16	Evaluation of Antagonistic Activity of <i>Trichoderma viride</i> and <i>Metarhizium anisopliae</i> against Phytopathogenic <i>Fusarium oxysporum</i> as Biological Control	Ed Danielle Tandang	Marthec Picardal	S-1-SI-19	Don Vicente Rama MNHS	Cebu City

LIFE/BIOLOGICAL SCIENCE TEAM - SECONDARY

No.	Title of Investigation	Researchers	Adviser	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 Remando Frederick Izzie Micoopin	Rachel Ann Bala	S-1-ST-1	Mandacay City Science HS	Mandacay City
2	The Anti-parasitic Activity of Talisay Leaves Against Ciliated Parasites on Pompano Fish	Samson Amno Arthur Eriman Dianne Madrigal	Hernando Arbuyes Jr	S-1-ST-2	Bobol Wisdom School	Tagbilaran City
3	Oxygen Production Capacity of Needle Sea Grass with Sunscreen in a Photosynthesis Set-up	Hemly Cate Villagan Domingue Dimagpang Alfred Mae Malmano	Karl Roy Manhot	S-1-ST-3	Last National Agricultural School	Siguilor
4	The Biodegradation of Polyethylene Terephthalate (PET) Plastics at Various Soil Samples	Leila Patric Dayagan Honey Anceron Padin Kherryl Labra	Farrab Madro	S-1-ST-4	Ocala NHS	Carcar City
5	Comparative Study of Compost Tea and Natural Fermented Solution on the Growth and Yield of Lettuce Through Hydroponics	Mery Louie Cadalso Francis Gayondato Chryzelle Sumangit	Maribel Maribel	S-1-ST-5	Bayawan City STEC	Bayawan City
6	Phytochemical Evaluation and Anti-Angiogenic Property of Bimbang Leaf Extract on Duck Eggs Using Chorionallantoin Membrane Assay	Amado Lorenzo IV Francis Cielo Tingal Rhemna Li Capisan	Carl Lawrence Carr	S-1-ST-6	Talisay City Science HS	Talisay City
7	Presence of Microplastics in Bivalves as Environmental Indicator of Water Pollution in Selected Marine Fisheries of Danao City	Vince Robert Enriquez Laine Venes Gomez Nina Marie Salva	Nearnetha Barriga	S-1-ST-8	Ramon M. Damao Sr. Foundation STBC	Danao
8	Human Hair Waste, Cow Bone Meal and Coconut Wood Ash as Eggplant Fertilizer	Riza Almon Cleofe Ascan Charlene Cabalida	Carmelo Jarrido Jr.	S-1-ST-9	Bais City National Science HS	Bais City
9	Antibacterial Activity of the Ethanolic Extract of Oca Fruits Against <i>Staphylococcus aureus</i> and <i>Escherichia coli</i> : An In Vitro Study	Dary Joy Baba Andreelle Corbito	Maricel Dabucol	S-1-ST-10	CBSAA	Bogo City
10	Anticoagulant Activity of "Samu-sa-Bato" on ICR Mice Blood	Kyla Goznan April Comonsad Gerilyn Alforon	Sophia Marie Villancio	S-1-ST-11	Naga NHS	City of Naga
11	Korokorosam Plant Extract as Fungicide	Jeanne Albertica Shayne Caraman Stephanie Kobi	Sarah Jane Imo	S-1-ST-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 Jade Baring Sheila Custo Sharon Angud	Nova Sebastianos	S-1-ST-15	Mactan NHS	Lapu-Lapu City
13	Phytochemical Analysis and Antimicrobial Activity of Lalo Determined Through Onion Assay	Louis Donald Amor Nicole Ari Avellaneda Flory Mae Gudin	Sergio Jacobo III	S-1-ST-16	Compostela NHS	Cebu Province

14	Banana Peel Extract: Its Effect Towards Larvae Termination on Stagnant Water	Gwyneth Hongcay Sheridan Batincila 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 Luzzasad Jonzbergio Masing Nifia Sequita	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 Benolito Engene 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	Farrah 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-Baliones 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	Guibulugan NHS	Guibulugan 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

no.	Title of Investigation	Researcher	Advisor	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 Subuya Fritz Gerald Pericos Mery Rose Canfic	Mary Grace Orca	S-PST-1	Mandana City Science HS	Mandana City
2	Alcogum Extract as Green Corrosion Inhibitor on Mild Steel in Hydrochloric Acid Medium	Alyssa Renee Lambaca Sean CJ Laveria Ginette Salim	Izel Daug-Quilal	S-PST-2	Siguitor Provincial Science HS	Siguitor
3	Minimization of Carbon Monoxide and Carbon Dioxide Using Cogon Grass as a Muffler Filter	Francis Alejandro Edgar John Oca Leah Remobasan	Farrah Madro	S-PST-3	Ocana 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 Piazos	Hermito Arbuys Jr	S-PST-4	Bohol Wisdom School	Tagbilaran City
5	Comparative Study of Human Urine and Organic Mixture as Insect Attractant	Virica Bianca Eujardo Ariane Kate Samoy Maria Ariane Hoyohoy	Martel	S-PST-5	Bayawan City STEC	Bayawan
6	Automatic Flushing Setup for Male Restrooms	Jely Brangala Nababie Ochevallo April Rosales	Princess JS	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 Mae Habel Charles Cedrick Cauton	Glendale Nidas	S-PST-7	Tanjay City Science HS	Tanjay City
8	Conversion of Plastic Wastes as a Fuel Substitute Through Pyrolysis	Lord Kelvin Abellana Cleo Mae Mauro Lyza Mae Calico	Lorna Abellana	S-PST-8	Amorcion R. Tamon National School of Fisheries	Bohol
9	Sea Lettuce as a Potential Adsorbent of Chromium and Oil Present in Wastewater	Nino Roy Armas Kaye Castro Jean Claire Caballes	Nemaneh Barriga	S-PST-9	Ramon M. Duran Sr. Foundation STEC	Davao
10	Comparative Degradation of Biodegradable Plastics made of Cassava Starch and Corn Starch	Kenneth Basona Lena Marlene Gargueta John Ivan Lumbrias	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 Magsan Mythic Garcia Albia Veraces	Chastren Soon	S-PST-11	CBSAA	City of Bogo
12	Pozzoamic Reaction of Rice Husk Ash and Sugarcane Bagasse Ash as Geopolymer Concrete	Patricia Cuevas John Amersaha James Tallo	John Ryan Dacalos	S-PST-12	Naga NHS	City of Naga
13	Efficacy of Cassia Alata Leaves Extract as an Alternative Treatment for Pediculosis	Jessica Samaga Keanne Casas Mery Cris Zala	April Mary Porlarcas	S-PST-13	Guthingnan NHS	Guthingnan City
14	Modified Energy Saver for Cooking	Jelly Cortes Candy Liso Christelle Estera	Felix Uriarte	S-PST-14	Don Andres Soriano NHS	Toledo City
15	Decorative Tile Using Eggshells	Kayla Acab Gwyneth Flores	Florencia 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>	Rhonal Cascellas Jean Apa Ticia Jarama	Karen Tampus	S-PST-16	Mactan NHS	Lapu-Lapu City

**APPLIED/PHYSICAL SCIENCE TEAM – SECONDARY**

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	Jumbo NHS	Dumaguete City
18	Mango Wood Vinegar as Chemical Treatment in Broiler on Reducing the pH and Bacterial Population	Novielyn Tangon	Karen Mae Talamo	S-PSI-18	Bayawan City STEC	Bayawan City
19	Alcohol, Lamp Power Generator, Light Source and Charger	Franz Joe Namer	Rosemarie Apao	E-PSI-19	Lalug NHS	Cebu City



17	Absorption of Lead (II) in Water by Activated Carbon from Samo	Mary Christine Nogra Francis Secaya Hammel Porio	Jean Alad	S-PST-17	Minglanilla Science HS	Cebu Province
18	Bi-metallic Sensor-Automated Irrigation System	Almond Cornelio Jordan Gabas Selwyn Villarez	Mary Bañes	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 Gandan	Sandra Tan	S-PST-19	Junob NHS	Dumaguete City
20	Project STEP	Marc Pocong Katriel Gantalo	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	Nemianeth 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	Chrissy Melendres	Algen Oling	S-RIMI-2	CBSAA	City of Bogu
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	Jarel Veralde	Fragelyn Ibaño	S-RIMI-6	AMA Computer University	Cebu City
7	Robot Vacuum Cleaner Powered by Arduino UNO	Yves Xavier	Cheryl Hongcauy	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 Madangit Genevieve Magpayo Lark Gamaliel Dacayana	Giovanni Reformina	S-RIMT-1	Tagbilaran City Science HS	Tagbilaran City
2	Robotic Vacuum Cleaner	Krayylle Calumpang Helgoarose Villacampa Paul Yacso	Princess JS Comcon	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 Nidas	S-RIMT-3	Tanjay City Science HS	Tanjay City
4	Arduino-Powered Water Level Detector With Alarm and SMS Notification System	Jason Greyson Boligao Claire Belle Candia Jingjing Boligao	Ronald Rey Rcsabal	S-RIMT-4	Tubigon West Central HS	Bohol
5	Project ACOOBot	Hannah Embalzado Deborah Enriquez Allen Quiros	Nemianeth 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 Caid Kylie Elaine Manninen	Carmelo Jamito Jr.	S-RIMT-6	Bais City National Science HS	Bais City
7	3D-Printed Arduino-based Vein Finder System for Intravenous (IV) Therapy	Sienna Mabuti Ivan De la 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 Bungabong	Sophia Villacencio	S-RIMT-8	Naga NHS	City of Naga
9	Project METUS: Medical Tumor Scanner	Arlan German John Pontino Kent Defunorun	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 Sane Ernac 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 Laurci Suzale Soquino Hannah Villar	Reggie Sy	S-RIMT-12	Talamban NHS	Cebu City

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