



Republic of the Philippines
Department of Education
Region VI - Western Visayas
SCHOOLS DIVISION OF CAPIZ

July 15, 2022

DIVISION MEMORANDUM

No. 214, s. 2022

RESULTS OF THE 2022 VIRTUAL REGIONAL SCILYMPICS

To: **Public Schools District Supervisors
Officers-in-Charge of the District
Heads, Public Integrated and Secondary Schools**

1. Attached is Regional Memorandum No. 514, series of 2022 re: "Results of the 2022 Virtual Regional Scilympics".
2. Immediate dissemination of this memorandum is desired.


MIGUEL MAC D. APOSIN EdD, CESO V
Schools Division Superintendent 

Attachment: As stated
References: DM-038, s. 2022 & RM 378, s. 2022
Regional Memorandum 514, s. 2022

To be indicated in the **Perpetual Index**

Under the following subjects:

AWARDS
CONTESTS
SCIENCE EDUCATION



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Republic of the Philippines
Department of Education
REGION VI - WESTERN VISAYAS

JUL 11 2022

REGIONAL MEMORANDUM
No. 514, s. 2022

RESULTS OF THE 2022 VIRTUAL REGIONAL SCILYMPICS

**To: Schools Division Superintendents
All Others Concerned**

1. This Office, through the Curriculum and Learning Management Division (CLMD), announces the results of the 2022 Virtual Regional Scilympics which was hosted by the Regional Science High School (RSHS), Schools Division of Aklan last June 28-30, 2022 via Zoom and Facebook Live.
2. Congratulations to all the finalists of the 21 Schools Divisions and to the top (1) winners who are the official entries of the Region to the National Science and Technology Fair (NSTF) on August 1-5, 2022. The list of winners is found in the Annexes of this Memorandum.
3. Immediate dissemination of this Memorandum is desired.


RAMIR B. UYTICO EdD, CESO III
Regional Director

Attachment: As stated
Reference: DM-038, s. 2022 & RM 378, s. 2022
To be indicated in the Perpetual Index
under the following subjects:

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Republic of the Philippines
DEPARTMENT OF EDUCATION
REGION VI – WESTERN VISAYAS
2022 REGIONAL SCILYMPICS
TOP 5 WINNERS
LIKHA (A RESEARCH PROPOSAL)
(Life Science- Individual Category)

Entry No.	Name of Contestants	Project Title	Coach/Coaches	School	SDO	Rank
10	Patrick Dominick B. Palmes	Antiviral Activity of Psidium guajava (Bayabas) Crude Aqueous Extract Against SARS_COV-2 Pseudovirus Delta Variant	Branche A. Sumido	Iloilo National High School	Iloilo	1
1	Mia Kareem T. Llavore	Star Anise (Illicium verum) Extracts for Short-Life Extension of Tomato (Solanum lycopersicum)	Nolizel Jhean A. Resurreccion	Regional Science High School for Region VI	Aklan	2
4	Louren Joy T. Bisagar	Isolation and Molecular Characterization of Geothermal Vent Water and Sediment Derived Actinobacteria from Hot Spring	Phillip Raymund R. De Oca	Bacolod National High School	Bacolod City	3
3	Abigail M. Articono	Biological Control of Xanthomonas oryzae causing bacterial blight disease on rice and metabolite profiling of Cogon (Imperata cylindrica) Aqueous Leaves Extract	Wendy A. Tingson	Ramon Torres National High School	Bago City	4
9	Mikko Jhon M. Gayatao	CARDIO-PROTECTIVE MECHANISM OF GOLDEN APPLE SNAIL (Pomacea canaliculata) MUCUS EXTRACT AGAINST TACHYCARDIA CONDITION	Jade M. Arro & Imman Ray L. Aguilar		Himamaylan City	5



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2022 REGIONAL SCILYMPICS
TOP 5 WINNERS
LIKHA (A RESEARCH PROPOSAL)
(Life Science- Team Category)

Entry No.	Name of Contestants	Project Title	Coach/Coaches	School	SDO	Rank
10	Ma. Cristina Isabel N. Tallador, Kiel Clark F. Grande, & Benedict Julz T. Plodaya	Probing Nutraceutical Potentials of <i>Physalis angulata</i> L (Tino-tino) Fresh Fruit through Proximate Analysis, Antioxidant and Anti inflammatory Properties	Ronilo V. Aponte	Iloilo National High School	Iloilo	1
4	Karen Kaye T. Alfonso, Shanzel Bridget M. Sale, Harley John B. Gelvoleo	Determination and Quantification of Microplastic Contamination in Hooded Oysters (<i>Saccostrea cucullata</i>) from Negros Occidental, Philippines	Eduardo Demisana	Sum-ag National High School	Bacolod City	2
14	Dorothy V. Turabella, Angel Faith V. Cosadio & Clarence Jake G. Palermo	In Vitro Pathogenic Analysis on the Utilization of Entomopathogenic Fungus <i>Metarhizium anisopliae</i> against Asian Corn Borer Larvae (<i>Ostrinia furnacalis</i>)	Don Alemar L. Llego	Lopez Jaena National High School	Negros Occ.	3
16	Ian Chael Edomay, Edmerson Manuel, & Ma. Isabel J. Tuazon	A Comparative Study on the Biosorption Capacity of <i>Chaetoceros calcitrans</i> and <i>Tetrasemis tetrahele</i> on Iron and Manganese	Jeffrey J. Arceño & Mara Rose A. Alfaro	Roxas City School for Philippine Craftsmen	Roxas City	4
9	Resil Jane P. Hiponia, Antoni Grace N. Bantilan	Phytobiological-Facilitated Synthesis of Liposome Silver Nanoparticles Derived from <i>Amor-Seco</i> (<i>Chrysopogon aciculatus</i>): Characterization and Cytotoxicity Against MCF- 7 Human Breast Cancer Cell Line	Jade M. Arro & Imman Ray L. Aguilar		Himamaylan City	5



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2022 REGIONAL SCILYMPICS
TOP 5 WINNERS
LIKHA (A RESEARCH PROPOSAL)
(Physical Science - Individual Category)

Entry No.	Name of Contestants	Project Title	Coach/Coaches	School	SDO	Rank
6	Princhelle Rose Lanario	N-CQDs vs S-CQDs: Characterization and Detection of Mercury	Ronnel Bialen & Maria Fatima S. Bolido	Capiz National High School	Capiz	1
10	Mario Miguel L. Flor	Microwave-assisted isolation of EDTA modified Nanocellulose (ENC) from <i>Oryza sativa</i> Hull as Potential Reusable Bioadsorbent against Ni(II) and Cu(II) Ions.	Engr. Mary Ann B. Diocares & Liezl Layam	Iloilo National High School	Iloilo	2
14	Myrrh Danielle A. Flores	Recycling Potential of Waste Face Masks into Carbon Nanotubes-Nickel Integrated Steel Through Catalytic Carbonization	Russell N. Gorre	Negros Occidental High School	Negros Occidental	3
9	Xander Vinz T. Calvo	Ion-Mediated PM Filter from Reduced Nanoporous Graphene Oxide Synthesized from Sugarcane (<i>Sacharum officinarum</i>) Bagasse	Imman Ray L. Aguilar		Himamaylan City	4
21	Paul Kemuel S. Mulavin	Microplastic Quantification on White Shrimp (<i>Litopenaus setiferus</i>) and Tiger Shrimp (<i>Penaeus monodon</i>) Meat from Coastline in Negros Occidental	Glaizelle T. Leonoras, Joshua Lorenz G. Estilo & Gizelle L. Panganiban	Negros Occidental National Science High School	Victorias City	5



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2022 REGIONAL SCILYMPICS
TOP 5 WINNERS
LIKHA (A RESEARCH PROPOSAL)
(Physical Science- Team Category)

Entry No.	Name of Contestants	Project Title	Coach/Coaches	School	SDO	Rank
10	Andrew Miguel G. Montero, Rae Evette S. Padilla, & Mariella D. Villodres	Lepto Kit: Qualitative Rapid Detection of Leptospirosis	Mariyln P. Mifuel & Gemma Jotea	Iloilo National High School	Iloilo	1
16	Alliah Faith C. Andrade & Leesha Khier C. Benigno	Hydrothermal Synthesis of Photoluminescent N-doped Carbon Quantum Dots from Rice Husk (<i>Oryza sativa</i>) for the Detection of Cd ²⁺ in Aqueous Media	Peter Jay B. Corros	Loctugan Integrated Farm School	Roxas City	2
21	Giljan Rezeile A. Cataluna, Francine Juliana C. Cuaros, & Reign Charlize P. Pedrosa	Sargassum gracilimum and Sargassum ilicifolium a Potential Anti-fouling Agents in Marine Epoxy	Glaizelle T. Leonoras, Joshua Lorenz G. Estilo & Gizelle L. Panganiban	Negros Occidental National Science High School	Victorias City	3
15	Andrew D. Fernandez, Kessiah Desiree P. Imas, and Bryce Kent P. Palma	HASINTO: Eichhornia crassipes (Water Hyacinth) LEAVES AS AN ALTERNATE SOUNPROOFING MATERIAL	Marianne A. Diaz	Passi National High School	Passi City	4
4	Christian A. Primavera, Mary Vil B. Araiz and Freeya Nicole A. Miag-ao	Production of Biodiesel from Manila Palm (<i>Adonida merrillii</i>) Nut	Clear Canete	Domingo Lacson National High School	Bacolod City	5



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2022 REGIONAL SCILYMPICS
TOP 5 WINNERS
LIKHA (A RESEARCH PROPOSAL)
(Robotics and Intelligent Machine- Individual Category)

Entry No.	Name of Contestants	Project Title	Coach/Coaches	School	SDO	Rank
14	Brent Joshua G. De Castro	iGoB2Wn: Translating Filipino Sign Language (FSL) into Text and Speech Using Neural Network	Russel N. Gorre, Sharon S. Villagrancia	Negros Occidental High School	Negros Occidental	1
8	Ishi Novielle Digdigan	PURIFECT: AN AUTOMATED AIR PURIFYING ROBOT WITH BUILD-IN PARTICLE SENSORS	Rhea G. Locsin	Buenavista National High School	Guimaras	2
6	Christian James Mejia	"Autonomous Virtual Map Simulator Tile Array"	Ronnel Bialen, Maria Fatima Bolido, & Eduardo Moises, Jr.	Capiz National High School	Capiz	3
10	Kathleen N. Yacub	Micro-Electro-Mechanical Systems (MEMS) RFID in Vehicle Identification and COVID Monitoring: Its Implication as Ground Vehicle Systems (VEH) and Source Data Verification (SDV)	Ian John M. Galupar	Pavia National High School	Iloilo	4
3	Carmela Marie Alinsunurin	Localized Seismic-sensitive Multi-hazard Early Warning System and Evacuation Route Guidance Mapping	Arlyn O. Pio	Ramon Torres National High School	Bago City	5



Republic of the Philippines
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2022 REGIONAL SCILYMPICS
TOP 5 WINNERS
LIKHA (A RESEARCH PROPOSAL)
(Robotics and Intelligent Machine- Team Category)

Entry No.	Name of Contestants	Project Title	Coach/Coaches	School	SDO	Rank
21	Aisha Jiam J. Berdin & Xyra G. Chavez	Prototype Drowsines and Yawn Real- Time Alert System for Safe Driving	Tonepher A. Caballero, Martin J. Jamison, & Madonna B. Decena	Negros Occidental National Science High School	Victorias City	1
7	Jamon D. Cajeras, Christopher Keith M. Vaflor, & Shane Michael T. Magallanes	Project Cardea: A Non-Touch Smart Door with Body Temperature Detection System	Jairee Cabus	Escalante National High School	Escalante City	2
14	Junel O. Arellano, Alexander S. Cueto Jr. & Chrislyn Ann M. Mañero	NARS: Nurse Assistant Robot System with Automated Vital Signs Monitoring, Robotic Arm for Medicine Delivery, and Patient Information Database	Russel N. Gorre	Negros Occidental High School	Negros Occidental	3
16	Kate Amor V. Glendro, Nathan C. Beluso, & Eriel Marie D. Dichosa	Automatic Health Monitoring System (AUHEMOS)	April A. Anisco	Colegio dela Purisima Concepcion	Roxas City	4
10	Ryzz Denzyll C. Butiong, Henshie Mari D. Cabico, & Ashlee Amilliene D. Ngu	M.I.N.E.R.V.A. (Mitigation of Natural Disasters in Evacuation Centers through Robotic Vending Algorithm) A COVID-Response AI Vending Machine for Disaster Mitigation and Relief Operations	Maria Cecilia D. Galupar	Iloilo National High School	Iloilo	5



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2022 REGIONAL SCILYMPICS
TOP 5 WINNERS
LIKHA (A RESEARCH PROPOSAL)
(Mathematics and Computational Sciences- Individual Category)

Entry No.	Name of Contestants	Project Title	Coach/Coaches	School	SDO	Rank
10	Ysabelle Beatrice U. Catinan	Let There Be Light: A Mathematical Modeling with Street Lights	Kim Jay C. Encio	Iloilo National High School	Iloilo	1st
4	Romo R. Pasaporte, Jr.	Path Analysis of Grit, Self-Regulation, Attitude Towards Research, and Performance in Research	Philip Raymund De Oca and Babylyn T. Generosa	Bacolod City National High School- Senior High School	Bacolod City	2nd
21	Martini Dirk Amare G. Gayares	Integration of Haversine Formula for Off-Grid Navigation	Ruth T. Funtanilla	Negros Occidental National Science High School	Victorias City	3rd
14	John Stepher T. Sabio	Negative Binomial Regression and Monte Carlo Simulation as Predictive Analytics Models	Russell N. Gore, Sharon S. Villagracia	Negros Occidental High School	Negros Occidental	4th
11	Yanelle J. Lecobo-an	Route Optimization: A Web Development and Application of Modified Vehicle Routing Problem	Kritzman E. Armisa and Liezel Anne Peñafiel	Iloilo City National High School	Iloilo City	5th



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2022 REGIONAL SCILYMPICS
TOP 5 WINNERS
LIKHA (A RESEARCH PROPOSAL)
(Mathematics and Computational Sciences- Team Category)

Entry No.	Name of Contestants	Project Title	Coach/Coaches	School	SDO	Rank
10	Mary Angela D. Natial, Easter Fleur D. Solis, and Shamelah Adriane F. Agriam	Optimizing Mangrove Coastal Defense Using a Sustainable Mangrove Enclosure (SME):A Disaster Risk Reduction and Management (DRRM) Project	Michelle P. Bales	IloIlo National High School	IloIlo	1st
14	Charito A. Radan III, Audrey G. Garcia	The Facebook Infodemic: A Markov Chain Simulation Model Of Post Distributions in Correlation to Post Content, Engagements, and Credibility	Russell N. Gorre	Negros Occidental High School	Negros Occ	2nd
5	Dejel Cyrus D. De Asis, Alfa Keith D. Ostea, John Ervy A. Ybardolaza	Trico App:A Developmental Study for Virtual Communication	Rex S. Galos	Dr. Vicente F. Gustilo Memorial National High School	Cadiz City	3rd
21	Princess Pearl Ann Grace P. Dymosco, and Angel Lee C. Sotes	Structural Dimensions of Subterranean Termite Mound in Negros Occidental National Science Hig School	Marvin J. Libo-on and Ruth T. Fontanilla	Negros Occidental National Science High School	Victorias City	4th
8	Cherrylyn G. Galamiton, Phylen Faith B. Vilchez, Ma. Jolan J. Tranca	PRYSE: Predicting Rice Yield and Sufficiency through Equation	Ke-An H. Occeñola, Shainly G. Ausmolo	Desiderio C. Gange NHS	Guimaras	5th



Republic of the Philippines
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2022 REGIONAL SCILYMPICS
TOP 5 WINNERS
SIYENSIKULA

Entry No.	Name of Contestant	Project Title	Coach/Coaches	School	SDO	Rank
19	Marianne Asley D. Villeta	Fossil Fuels Explained!	Sheena Mae R. Lobaton	Dona Montserrat Lopez Memorial High School	Silay City	1*
3	Deanna Diocson	Long Term Potentiation	Jessa Loraine M. Ramos	Bacolod City National High School- Senior High School	Bacolod City	2*
6	Astrid Jireh P. Magallanes	A Seed Dropped Into Water	Jannah Mae D. Belvis	Jose Diva Avelino Jr. National High School	Capiz	3
18	Yesha Jahaziel C. Catalan	Photosynthesis: Calvin cycle	John Mayron B. Gadiane and Patricia Ann Palencia	Julio Ledesma National High School	San Carlos City	4
12	Gian Michael Ramirez	Ideonella Sakaiensis	Ricel N. Peracullo	Kabankalan National High School	Kabankalan City	5

* 1&2 are entries to the 2022 NSTF

Annex J



Republic of the Philippines
DEPARTMENT OF EDUCATION
REGION VI – WESTERN VISAYAS
2022 REGIONAL SCILYMPICS
TOP 5 WINNERS
STEMTOKPERIMENTS
(Junior High School)

Entry No.	Name of Contestants	Project Title	Coach/Coaches	School	SDO	Rank
14	Thea Y. Sales	Fire Snake	Rigie M. Divinagracia and Roselyn S. Samodio	Lopez Jaena National High School	Negros Occidental	1st
6	May Ann Rose D. Amahan	Butane Bubble Experiemnt	Ergil V. Romualdo	East Villaflores National High School	Capiz	2nd
9	Blessed Sensei M. Gevero	Bernoulli's Principle: Ruben's tube	Marichu C. Alopra, Florebelle D. Alipo-on, Daryl Dee G. Diongson		Himamaylan City	3rd
13	Julie Anne S. Villacorsa	Disappearing Water Trick	Riza Mae E. Camacho	Dona Hortencia Salas Benedicto National High School	La Carlota City	4th
2	Marian Charisse V. Cabrera	Hydrophobic	Richel A. Hugos and JeahLoraine C. Ortega	Antique National High School	Antique	5th

Annex K



Republic of the Philippines
DEPARTMENT OF EDUCATION
REGION VI – WESTERN VISAYAS
2022 REGIONAL SCILYMPICS
TOP 5 WINNERS
STEMTOKPERIMENTS
(Senior High School)

Entry No.	Name of Contestants	Project Title	Coach/Coaches	School	SDO	Rank
6	Cheyn Everest A. Ban	Pinaikot- Ikot Lang : Convection Current	Michelle G. Dordas	Capiz National High School	Capiz	1st
13	Nethenea Xznarelle S. Ganza	WattaFoam!	Mary Joy M. Verba and Ana Marielle L. Ginete	Dona Hortencia Salas Benedicto National High School	La Carlota City	2nd
14	Rimson R. Bautista Jr	Hydraulic Claw Machine	Romel G. Cileno	Calatrava SHS- Stand alone	Negros Occidental	3rd
3	Pauline May Casabuena	Supercooled Water	Michael Benedict C. de Pedro	Sum Ag National High School	Bacolod City	4th
5	Ruth D. Medina	Extracting DNA from Banana	Glenn Mark D. Fallera	IloIlo City National High School	IloIlo City	5th



Republic of the Philippines
DEPARTMENT OF EDUCATION
REGION VI – WESTERN VISAYAS
2022 REGIONAL SCILYMPICS
SIYENSIKULA
PEER EVALUATION

CLUSTER 1 (Iloilo, Roxas City, San Carlos City)

NAME OF CONTESTANT	PROJECT TITLE	COACH/COACHES	SCHOOL	SDO
Yesha Jahaziel C. Catalan	Photosynthesis: Calvin Cycle	John Myron B. Gadiane Patricia Ann Palencia	Julio Ledesma NHS	San Carlos City

CLUSTER 2 (Negros Occidental, Silay City, Passi City)

NAME OF CONTESTANT	PROJECT TITLE	COACH/COACHES	SCHOOL	SDO
Marianne Asley D. Villeta	Fossil Fuels Explained	Sheen Mae R. Lobaton	DMLMHS	Silay City

CLUSTER 3 (Capiz, Antique, Escalante City)

NAME OF CONTESTANT	PROJECT TITLE	COACH/COACHES	SCHOOL	SDO
Astrid Jireh P. Magallanes	A seed dropped into water	Jannah Mae D. Belvis	Jose Diva Avelino Jr. NHS	Capiz

CLUSTER 4 (Iloilo City, Cadiz City, Himamaylan City)

NAME OF CONTESTANT	PROJECT TITLE	COACH/COACHES	SCHOOL	SDO
Casey Gabrielle C. De Asis	Le Chatelier's Principle	Silvestre M. Solomon III Rosemarie D. Doronila Shiela Mae S. Navarro		Himamaylan City

CLUSTER 5 (Aklan, Kabankalan City, Bago City)

NAME OF CONTESTANT	PROJECT TITLE	COACH/COACHES	SCHOOL	SDO
Morpheus Lei E. Yarra	Sayanista Explains: CRISPR-CAS 9	Nolizel Jhean A. Resurreccion	Regional Science High School-VI	Aklan

CLUSTER 6 (Bacolod City, Guimaras, La Carlota City)

NAME OF CONTESTANT	PROJECT TITLE	COACH/COACHES	SCHOOL	SDO
Deanna G. Diocon	SciBLAST Film	Jessa Loraine M. Ramos	Bacolod City National High School	Bacolod City

CLUSTER 7 (Sagay City, Sipalay City, Victorias City)

NAME OF CONTESTANT	PROJECT TITLE	COACH/COACHES	SCHOOL	SDO
Aira Joy Bayanban	Stem Cells	RJ Batangas	Sagay National High School	Sagay City