



DepED MEMORANDUM

MAR 18 2008

No. 139 s. 2008

2008 NATIONAL LEVEL DEPED-INTEL PHILIPPINE SCIENCE FAIR WINNERS
AND THE ISEF DELEGATES TO ATLANTA, GEORGIA, USA

To: Bureau Directors
Regional Directors
Schools Division/City Superintendents
Heads, Public and Private Secondary Schools

1. In recognition of their exemplary performance, the Department of Education (DepED), through the Bureau of Secondary Education congratulates the winners together with their advisers of the recently concluded national level DepED-Intel Philippines Science Fair. The 1st, 2nd and 3rd place winners of the grand awards are listed in Enclosure No. 1. Enclosure No. 2 is the list of winners of the special and corporate awards.

2. Six investigatory projects by ten students were selected to represent the country to the Intel International Science and Engineering Fair (ISEF) on May 11-16, 2008 at Atlanta, Georgia, United States of America. The official list of winners among the delegations are shown in Enclosure No. 3.

3. The ten (10) ISEF delegates are requested to prepare the necessary papers/documents for the ISEF and their travel to the USA. As such, they are expected to be in Manila for the processing of travel documents, and attend the Science Clinic at the BSE Conference Room on the schedules stated in Enclosure No. 4. Also, the school officials of the said delegates are requested to allow them to make use of available facilities to facilitate the processing of the required documents for the ISEF.

4. Local travel, per dime, board and lodging (at the PASS dormitory) of the delegates in processing their travel documents shall be charged against INTEL funds transferred to BSE Trust Funds subject to the usual accounting and auditing rules and regulations.

5. Immediate dissemination of this Memorandum is desired.

JESLI A. LAPUS
Secretary

Encls.: As stated

Reference: DepED Memorandum: No. 54, s. 2008

Allotment: 1—(D.O. 50-97)

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

AWARDS SCIENCE EDUCATION STUDENTS TEACHERS

Enclosure No. 1 to DepED Memorandum No. 139, s. 2008

2007-2008 DepED Intel Philippines Science Fair Grand Winners

Venue: Tagaytay Haven, Tagaytay City

Date: February 13-16, 2008

LIFE SCIENCE / CLUSTER 1 / INDIVIDUAL

Region	Name of Project Leader/Presenter	Project Title	School/Address	Project Adviser	Rank
XII	Steven Cuapoco T. Tan	Pharmaceutical Compounds (Antibacterial Immunobooster) from <i>Barringtonia Asiatica</i> and <i>Garcinia Mangostana</i>	The Quantum Academy Inc. General Santos City	Mr. Felmar Fernandez	1
XIII	Michel Lou Lacaparan	Physical Immobilization capability of Snail (<i>Achatina fulica</i>) mucus: A possible mechanism for antigen antibody induction	Bayugan Comp. NHS Agusan del Sur	Mr. Gregor C. Burdeos	2
NCR	Lester R. Gomez	Equine and Bovine Manure Filtrates: A Natural Fungicidal Agent to Control the Dumping-off Disease	R. Magsaysay HS, Manila	Mr. June Haydon Sinson	3

LIFE SCIENCE / CLUSTER 1 / TEAM

Region	Name of Project Leader/Presenter	Project Title	School/Address	Project Adviser	Rank
VI	John Vincent Gabiano Mae Ann Tabasin	The Effects of Levamisole in the Non-specific Cellular Immune Response in Tilapia, (<i>Oreochromis niloticus</i>)	Maasin NCHS Maasin, Iloilo	Ms. Marian Argie Daradar	1
X	Michelle Borbon Rachel Bernadas Mary Cris Corpuz	A Comparative Study on Mangrove Species Diversity at Different Locations in Pangasihon Forest	Gingog City Comp. NHS Gingog City	Ms. Hazel R. Balan	2
IVA	Alvin Neil Q. Javier Mark Gasgonia Gen Alejandro Asuncion*	Antiseptic Potential of Damong-Pallas Leaf Extract	Bacoor NHS Cavite	Mr. Alfredo N. Sarabusab	3

PHYSICAL SCIENCE / CLUSTER 1 / INDIVIDUAL

Region	Name of Project Leader/Presenter	Project Title	School/Address	Project Adviser	Rank
XIII	Jessel Fatima Cane	Semi Conducting Property NaCl doped Green mussel (<i>Perna v. iridis</i>) shells: An innovation for Organic Semi-conductor Systems	Bayugan Comp. NHS	Mr. Gregor Burdeos	1
II	Jed Sidney T. Oliva	Morh: Jedoque Process of Increasing the Compressive Strength and Lessening the Water Absorbency of Hollow Blocks	Ballesteros NHS Cagayan	Mrs. Flordeliza C. Salvador	2
XII	Jeffrey Celso Marie M. Rafael	Utilization of Chicken Feathers as Fiber Glass Creation	The Quantum Academy Inc. General Santos City	Mr. Pelmar B. Fernandez	3

PHYSICAL SCIENCE / CLUSTER 1 / TEAM

Region	Name of Project Leader/Presenter	Project Title	School/Address	Project Adviser	Rank
IVB	Marc Amando Marquez Anna Rose R. Malapad Rachel Aurora C. Chi	The Effectiveness of (<i>Jathropa curcas</i>) Sap as Metallic Ion indicator in Water Through Color Reaction	Marinduque NHS Marinduque	Mr. Menandro Merlin	1
X	Chrismae Maxine P. Solon April Faith L. Manabat Veron Gem T. Dalumbar	Biofuel from "Nipa" Palm (<i>Nypa fruticans</i>) to Lessen Greenhouse Gas Emission from Vehicles	Misamis Occidental NHS	Ms. Sally E. Namocatcat	2
XII	Nicole Angelique L. Sanchez Faustino Jade Davis	Bioconversion of Pineapple Bagasse to Biofuel and Other Useful Bio-Industrial By-Products	Dole Philippines School South Cotabato	Mr. Roden Yumol	3

LIFE SCIENCE / CLUSTER 2 / INDIVIDUAL

Region	Name of Project Leader/Presenter	Project Title	School/Address	Project Adviser	Rank
NCR	Louie S. Lugto	Isolation and Characterization of the Most Cytotoxic Fraction of Selected Philippine Poisonous Crabs	Don Alejandro Roces Sr. Science & Technology HS Quezon City	Ms. Ma. Patria Alejandro	1
VI	Connie Rose Gabor	In Vitro MTT Cytotoxicity Assay against A549 and HCT 116 and Free Radical (DPPH) Scavenging Activity of Selected Plant Species: Its Implication on Cancer Chemotherapy and Prevention	Capiz NHS Capiz	Mr. Ronilo Aponte	2
IX	Minnette B. Emmanuel	Survival Rate of Coconut (<i>cocos of nucifera L.</i>) Seedlings Detached from Nut of Different Ages	Regional Science HS Zamboanga City	Ms. Noreen T. Catis	3

LIFE SCIENCE / CLUSTER 2 / TEAM

Region	Name of Project Leader/Presenter	Project Title	School/Address	Project Adviser	Rank
VIII	Erwin Angelo Amago John Isaac Merin Lawreanne Sanico	Mathematical Representation of the Resistance Trends Exhibited by <i>Escherichia Coli</i> and <i>Klebsiella</i> Against Amoxicillin with Clavulanic Acid Through Different Generation	Philippine Science HS Eastern Visayas Campus Tacloban City	Mr. Carlo Chris Apurillo	1
NCR	Balmes Domar Francis Rainier Atanacio Mark Anthony Tiquio	Evaluation of Selected Philippine Poisonous Crabs as Antimicrobial Agent	Don Alejandro Roces Sr. Science and Technology HS Quezon City	Ms. Ma. Patria Alejandro	2
II	Hannah Ruby P. Rafael Lovely Ann B. Buting Joan A. Rona	Anti-parasitic Activity of Nematophagus Fungi Against Burrowing nematode (<i>Rapopholus similes</i>) in Banana (<i>Musa a cuminate</i> AAA)	Philippine Science HS-Cagayan valley Campus Nueva Vizcaya	Mrs. Catherine Joy A. Addauan	3

PHYSICAL SCIENCE / CLUSTER 2 / INDIVIDUAL

Region	Name of Project Leader/Presenter	Project Title	School/Address	Project Adviser	Rank
VIII	Andrew Diamante	Prediction of Total Soluble Solids in Ripe Mangoes based on its Electrical Resistance	VSULHS Address	Dr. Lemuel Diamante	1
III	Michael Kevin Fajardo	Effectiveness of Essential Oil from Lemon Grass (<i>Cymbopogon citratus</i>) on Corn Pathogen Eradicator	Regional Science HS East Kalayaan SBEZ, Olongapo City	Ms. Cecilia Pascual	2
IVB	Bernabe B. Domingo	Decortications and Alkalization of Snake Plant (<i>Sansevieria tifasciata</i>) Leaves for the Production of Essential Textile Fiber	San Jose NHS Occidental Mindoro	Ms. Ma. Lea B. Peñafior	3

PHYSICAL SCIENCE / CLUSTER 2 / TEAM

Region	Name of Project Leader/Presenter	Project Title	School/Address	Project Adviser	Rank
NCR	Marvin Paolo G. Ambrosio Rachel Ruth Y. Cahilig Adrian T. Patacsil	Construction of a Mechanical Prototype of a Micro Tremor Recorder	Philippine Science HS Quezon City	Mr. Edgar Tafaleng	1
IVB	Charmyme B. Mamador Mary jesselou C. Misal Fatima Abegail H. Tesnado	A Cellostic Sheet from <i>Sterilitzia reginae</i> Pulp	MIMAROPA Regional Science HS Oriental Mindoro	Ms. Melanie Gaytano	2
XIII	Proxy Pearl Macana Lafayette Kinri Noel Debra Ruth Edradan	Assessment of Mycorrhizal Diversity and its Effects on <i>acacia mangium</i> , <i>Paraserianthes falcararia</i> and <i>Xanthostemon verdugonianus</i> in Marginal and Mine Waste Soils of Manila Mining Corp., Placer, Surigao del Norte	CARAGA Regional Science HS Surigao City	Ms. Ma. Ruth Edradan	3

Enclosure No. 2 to DepED Memorandum No. 139, s. 2008

SPECIAL AWARDS - IPSF 2008

Region	Name of Project Leader/Presenter	Project Title	School/Address	Project Adviser
MOST IV-B	Charmyme B. Mamador Mary Jesselou C. Misal Fatima Abegail H. Tesnado	A Cellosic Sheet from <i>Sterilitzia reginae</i> Pulp	MIMAROPA Regional Science HS, Oriental Mindoro	Ms. Melanie Gaytano

STUDENT GEOSCIENCE EXCELLENCE

XIII	Proxy Pearl Macana Lafayette Kinri Noel Debra Ruth Edradan	Assessment of Mycorrhizal Diversity and its Effects on <i>acacia mangium</i> , <i>Paraserianthes falcararia</i> and <i>Xanthostemon verdugonianus</i> in Marginal and Mine Waste Soils of Manila Mining Corp., Placer, Surigao del Norte	CARAGA Regional Science HS Surigao City	Ms. Ma. Ruth Edradan
------	--	--	--	----------------------

HERBERT HOOVER YOUNG ENGINEER AWARD

NCR	Marvin Paolo G. Ambrosio Rachel Ruth Y. Cahilig Adrian T. Patacsil	Construction of a Mechanical Prototype of a Micro Tremor Recorder	Philippine Science HS Quezon City	Mr. Edgar Tafaleng
-----	--	---	--------------------------------------	--------------------

RICOH DEVELOPMENT AWARD

X	Chrismae Maxine P. Solon April Faith L. Manabat Veron Gem T. Dalumbar	Biofuel from "Nipa" Palm (<i>Nypa fruticans</i>) to Lessen Greenhouse Gas Emission from Vehicles	Misamis Occidental NHS Misamis Occidental	Ms. Sally E. Namocatcat
---	---	--	--	-------------------------

INTEL EXCELLENCE IN COMPUTER SCIENCE

NCR	Nikkei Pfeiffer M. Thadili	Design of an Image Compression Program Using Different Fractal Formulas	Philippine Science HS Quezon City	Mr. Edgar Tafaleng
-----	----------------------------	---	--------------------------------------	--------------------

YALE SCIENCE AND ENGINEERING AWARD

IVB	Marc Amando Marquez Anna Rose R. Malapad Rachel Aurora C. Chi	The Effectiveness of (<i>Jathropa curcas</i>) Sap as Metallic Ion Indicator in Water Through Color Reaction	Marinduque NHS Marinduque	Mr. Menandro Merlin
-----	---	---	------------------------------	---------------------

Region	Name of Project Leader/Presenter	Project Title	School/Address	Project Adviser
--------	----------------------------------	---------------	----------------	-----------------

MU ALPHA THETA AWARD

VIII	Andrew Diamante	Prediction of Total Soluble Solids in Ripe Mangoes Based on its Electrical Resistance	VSULHS	Dr. Lemuel Diamante
------	-----------------	---	--------	---------------------

In-vitro BIOLOGY AWARD

VI	Connie Rose Gabor	In Vitro MTT Cytotoxicity Assay against A549 and HCT 116 and Free Radical (DPPH) Scavenging Activity of Selected Plant Species: Its Implication on Cancer Chemotherapy and Prevention	Capiz NHS Capiz	Mr. Ronilo Aponte
----	-------------------	---	--------------------	-------------------

BALUD INTERNATIONAL DEVELOPMENT AWARD

X	Michelle Borbon Rachel Bernadas Mary Cris Corpuz	A Comparative Study on Mangrove Species Diversity at Different Locations in Pangasihon Forest	Gingoog City Comp. NHS Gingoog City	Hazel R. Balan
---	--	---	--	----------------

Samahang Pisika ng Pilipinas Best Project in Physics Award				
NCR	Marvin Paulo G. Ambrosio Rachel Ruth Y. Cahilig Adrian T. Patacsil	Construction of a Mechanical Prototype of a Micro Tremor recorder	Philippine Science High School, Quezon City	Edgar Tafaleng

Semiconductor and Electronics Industries of the Philippines, Inc				
VII	Anne Christine Librando Maia Lucille C. Pacubas Renee Antonette L. Bacon	Security Torrential Operative Prototype: Security that Operates Via Rushing Stream System	Cebu City National Science High School Cebu City	Ms. Mary-Anne Dumdum Mr. Elmer Invento

Corporate Awards - IPSF 2008

Award	Project Title	Name of Project Exhibitor/Leader	Project Adviser	Name of School	Region
Cluster 2 Physical Science - Team					
Smart Communi- cations Special Award	Simplified Intruder Alert Device	Ayana Rosales, Laarnie Ann Marzan	Janette Fermin	Saint Paul University of the Philippines - Tugegarao	Region II
Cluster 1 Physical Science - Team					
Meralco Special Award	Biofuel from "Nipa" Palm (Nypa fruticans) to Lessen Greenhouse Gas Emission from Vehicles	Chrismae Maxine P. Solon, April Faith L. Manabat, Veron Gem T. Dalumar	Ms. Solly Namocatcat	Misamis Occidental National High School	Region X
Cluster 1 Physical Science - Team					
Nike Park Special Award	Production of Leather from the Skin of Abalistes Stellaris	Jerome F. Padilla, et al	Mr. Carlos Oro	Navotas National High School	NCR
Cluster					
Petron Corporatio n Special Award	Utilization of Oil from Indian Almond (Terminalia catappa) Kernel and Gamhar (Gmelina arborea) Drupes as a Potential Substitute for Conventional Petroleum - Based Diesel	Harold Kenneth Rallos	Rowena Pontillo	Nabunturan National College and High School	Region XI
Cluster					
ABS-CBN Foundatio n Special Award	Prediction of Total Soluble Solids in Ripe Mangoes based on its Electrical Resistance	Andrew Diamante	Dr. Lemuel Diamante	Visayas State University Laboratory High School	Region VII
Cluster 1 Physical Science - Individual					
SM Discovery Center	Utilization of Chicken Feathers as Fiber Glass Creation	Jeffrey Celso Marie M. Rafael	Mr. Pelmar B. Fernandez	The Quantum Academy Inc., General Santos City	Region XII

Enclosure No. 3 to DepED Memorandum No. 139, s. 2008**ISEF DELEGATES****INDIVIDUAL WINNERS - LIFE SCIENCES**

XII	Steven Cuapoco T. Tan	Pharmaceutical compounds as antibacterial-immunobooster from <i>Barringtonia asiatica</i> and <i>Garcinia mangostana</i>	The Quantum Academy Inc. General Santos City	Mr. Felmar Fernandez
NCR	Louie S. Lugto	Isolation and Characterization of the Most Cytotoxic Fractions of Selected Philippine Poisonous Crabs	Don Alejandro Roces Sr. Science & Technology HS, Quezon City	Ms. Ma. Patria P. Alejandrino

INDIVIDUAL WINNERS - PHYSICAL SCIENCES

II	Jed Sidney T. Oliva	MORH: jodoque Process of Increasing the Compressive Strength and Lessening the Water Adsorbency of Hollow Blocks	Ballesteros Nat'l. HS	Flordeliza C. Salvador
VIII	Andrew Diamante	Prediction of Total Soluble Solids in Ripe Mangoes Based on its Electrical Resistance	VSULHS	Dr. Lemuel Diamante

TEAM WINNERS

X	Michelle Borbon Rachel Bernadas Mary Cris Corpuz	A Comparative Study on Mangrove Species Diversity at Different Locations in Pangasihon Forest	Gingoog City Comp. NHS Gingoog City	Ms. Hazel R. Balan
NCR	Marvin Paolo G. Ambrosio Rachel Ruth Y. Cahilig Adrian T. Patacsil	Construction of a Mechanical Prototype of a Micro Tremor Recorder	Philippine Science HS Quezon City	Mr. Edgar Tafaleng

Enclosure No. 4 to DepED Memorandum No. 139, s. 2008

SCHEDULE OF ACTIVITIES

DATE	ACTIVITY	MEANS OF TRAVEL/VENUE
April-08	Travel to Manila	Regions VIII, X & XII - PAL Region II - Bus NCR - Bus PASS Dormitory
April 7-11	Science Clinic	BSE Conference Room
April 12	Return to Official Stations	Regions VIII, X & XII - PAL Region II - Bus NCR - Bus
April 27	Travel to Manila	Regions VIII, X & XII - PAL Region II - Bus NCR - Bus
April 28-May 2	Processing of Papers/Documents for Travel Finalization of Research Projects	USA Embassy BSE Conference Room
May 8	Travel to Manila	Regions VIII, X & XII - PAL Region II - Bus NCR - Bus
May 9	Finalization of all documents	BSE Conference Room
May 10	Flight to USA	Plane
May 18	Flight from USA to Manila	Plane
May 19	Return to Official Stations	Plane/Bus