



Office of the Secretary

DepED MEMORANDUM
No. 175, s. 2008

APR 09 2008

RESULTS OF THE SCIENCE INVESTIGATORY PROJECTS AND MATHEMATICAL
INVESTIGATIONS COMPETITION DURING THE FOURTH NATIONAL
SCIENCE-MATHEMATICS CONGRESS FOR THE REGIONAL
SCIENCE HIGH SCHOOLS (RSHSs)

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

1. The Curriculum Development Division (CDD) of the Bureau of Secondary Education (BSE), Department of Education (DepED) is pleased to announce the winners of the Science Investigatory Projects and Mathematical Investigations Competition held during the Science and Mathematics Congress for the Regional Science High Schools (RSHSs) last February 3-9, 2008 at Subic Bay Metropolitan Authority (SBMA) Compound, Olongapo City. This activity of the Regional Science School Program is embodied in DepED Memorandum No. 13, s. 2008 with the theme "Engage, Explore and Excel in Science and Mathematics".
2. The congress was participated in by students, Research Science Teachers, Mathematics teachers and school heads from the 17 RSHSs, officials and staff of DepED Region III and its division offices, staff and officials from DepED Central Office, and the Regional/Division Supervisors from other DepED regional offices.
3. The panel of judges consisted of experts from the academe and research institutions.
4. The decision of the panel of judges for the competition is final and irrevocable.
5. The list of winners and the Grand Champion in the RSHSs Congress, both individual and team categories, is enclosed.
6. This Department congratulates the winners and acknowledges the support and cooperation of the DepED Regional Director, officials and teachers of the RSHS of DepED Region III, the Regional Office and its Division Offices, which hosted this big event.
7. Immediate dissemination of this Memorandum is desired.

Ramon C. Bacani
RAMON C. BACANI
Undersecretary
Officer-in-Charge

Encl.:

As stated

Reference:

DepED Memorandum: (No. 13, s. 2008)

Allotment: 1—(D.O. 50-97)

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

CONTESTS
Learning Area, MATHEMATICS
PROJECTS
SECONDARY EDUCATION
SCIENCE EDUCATION
STUDENTS
TEACHERS

Sheila, DM Results of Science Investigatory Projects
April 4, 2008

**FOURTH NATIONAL SCIENCE-MATHEMATICS CONGRESS
of Regional Science High Schools
February 3-8, 2008
SBMA Compound, Olongapo City**

**GRAND WINNERS
Science Investigatory Projects /Mathematical Investigations**

Science Investigatory Projects

Physical/Applied Science (Individual Category)

Rank	Title of IP	Researcher/Adviser	School	Region
1 st	Effectiveness of Essential Oil from Lemon Grass as Corn Pathogen Eradicator	Michael Kevin R. Fajardo / Mr. Samson Buqueron	Regional Science High School for Region III East Kalayaan, SBMA Compound Olongapo City	III
2 nd	When Learning is a Dangerous Thing: Dynamics of Panic Behavior Among Confined Young Mice under Altered Exit Locations	Miguel Antonio D. Fudolig / Mr. Noel Diaz	Quezon City Science High School Golden Acres, cor. Misamis St., Bago Bantay, Quezon City	NCR
3 rd	Improvised Solid Waste Pyrolyzer on Hydrous Pyrolysis of Solid Waste	Jordan Luther L. Basawil / Ms. Ethielyn Taqued	Cordillera Regional Science High School Wangal, La Trinidad, Benguet	CAR
4 th	Indigenous Mangkono and Lahi-lahi as potential Phytoremediators of Nickel and Iron-Rich Soil in Taganito Mining, Surigao del Norte, Philippines	Belle Alva Jelle S. Culango / Ms. Maria Ruth Edradan	CARAGA Regional Science High School San Juan, Surigao City	XIII
5 th	Improved Rice of Hull Stove	Glen Bernard M. Asto / Mr. Rogelio Valdez	Regional Science High School for Region I Maria Cristina East, Bangar, La Union	I
5 th	Gas Chromatography and Comparison of Omega-3 Fatty Acids of Fish Oil from Flat fish, Rainbow Trout and Anchovy	Irish M. Diosomito / Mr. Ernesto M. Mojica	Cavite National Science High School (Regional Science High School for Region IV-A) Garita B, Maragondon, Cavite	IV-A CALA-BARZON

Physical/Applied Science (Team Category)

Rank	Title of IP	Researcher/Adviser	School	Region
1 st	Harvesting Electrical Energy from Cellulose using Cow Manure Microorganism as Biocatalysts in a Two-Chamber Microbial Fuel Cell	Howell Henrian Bayona and Ian Kim Tabios / Mr. Noel Diaz	Quezon City Science High School Golden Acres, cor. Misamis St., Bago Bantay, Quezon City	NCR
2 nd	Lead Ion Uptake by Agar Beads, Free and Agar – Immobilized Spirulina Sp.	Kate Boquilon / Judylyn Bernido , and Dominique Chairmane Aranas / Ms. Maria Ruth Edradan	CARAGA Regional Science High School San Juan, Surigao City	XIII
3 rd	Enhancing Biogas Production Utilizing High Density Polyethylene Plastic HPE Digester	Marianne Walsi-En and Ronell Christian Gulmayo / Ms. Ethielyn Taqued	Cordillera Regional Science High School Wangal, La Trinidad, Benguet	CAR
4 th	Production of Biodegradable Plastic from Camote Starch and Nata de Coco	Jessa Nagal, Eden Bacayo, and Azeriah Joir Tumbocon / Ms. Sheila Butil	Alabel National Science High School Alabel, Sarangani	XII
5 th	Cellulosic Sheet from Strelitzia reginae Sp.	Jesselou Misal and Fatima Abegail Tesnado / Ms. Mizpah D. Castromero	Bansud National High School Bansud, Oriental Mindoro	IV-B MIMA-ROPA

**Science Investigatory Projects
Biological/Life Science (Individual Category)**

Rank	Title of IP	Proponent/Adviser	School	Region
1 st	Survival Rate of Coconut (<i>Cocos nucifera</i> L.) Seedlings Detached from Nut of Different Ages	Minette B. Emmanuel / Ms. Noreen T. Catis	Regional Science High School for Region IX Malasiga, San Roque, Zamboanga City	IX
2 nd	Direct Isolation of Entomaphagous Fungi from Red Spider Mites Infecting on Papaya (<i>Carica papaya</i> Linn.) Leaves	Albee Marie C. Dela Rosa / Ms. Judith Marcaida	Gusa National High School (RSHS) Gusa, Cagayan de Oro City	X
3 rd	Silkworm Nuclear Polyhedrosis Virus (NPV): A Biological Agent Against Cutworm (<i>Spodoptera litura</i> F.)	Jake T. Gonzales / Mr. Rogelio C. Valdez	Regional Science High School for Region I Maria Cristina East, Bangar, La Union	I
4 th	Brine Shrimp Lethality Activity of the Bioactive Compounds of Kalingay (<i>Cinnamomum mercadol vidal</i>) Crude Extract	Alyssa Marie Z. Maghuyop / Ms. Grace B. Alvarado	CARAGA Regional Science High School San Juan, Surigao City	XIII
5 th	Effectiveness of Mangosten (<i>Gaucinia mangostana</i>) Pericarp Extract Against Rise Plant Pathogens	EJ Rannel Christian D. Manalang / Mr. Samson Buqueron	Regional Science High School for Region III East Kalayaan, SBMA Compound Olongapo City	III

Biological/Life Science (Team Category)

Rank	Title of IP	Proponent/Adviser	School	Region
1 st	Assessment of Mycorrhizal Diversity and Its Growth Effects on Acacia	Prexy Pearl C. Macana and Lafayette Kirs S. Noel / Ms. Maria Ruth R. Edradan	CARAGA Regional Science High School San Juan, Surigao City	XIII
2 nd	Soil Actinomycetes as Antagonist to Pathogenic Bacteria (<i>Escherichia coli</i> and <i>Staphylococcus aureus</i>)	Shiela Ann C. Gorospe, Cristanne Deanne A. Santiago and Marc Josef D. Riman / Ms. Ruby H. Bautista	Cavite National Science High School (Regional Science High School for Region IV-A) Garita B, Maragondon, Cavite	IV-A CALA-BARZON
3 rd	Screening the Presence of Antibiotic Residence in Chicken (<i>Gallus domesticus</i>) Egg	Diannem Valmorla and Renerio P. Gentallan, Jr. / Mr. Lloyd Allan L. Cabunoc	Gusa National High School (RSHS) Gusa, Cagayan de Oro City	X
4 th	The Bioremediation Potential of <i>Bacillus cereus</i> on Low Density Polyethylene Plastics	Khery Lo Baludda and Beverlyn Bachian / Ms. Ethielyn E. Taqued	Cordillera Regional Science High School Wangal, La Trinidad, Benguet	CAR
5 th	Sea Urchin's Fertilin and Its Effect on the Growth and Cell Division of Orion Roots	Cynthia Pontinez, Jhoanara Rey Cadiz and Glady's Pearl Calinislinisan / Ms. Ferrera Oira	Ramon Teves Pastor Memorial Dumaguete Science HS Daro, Dumaguete City	VII