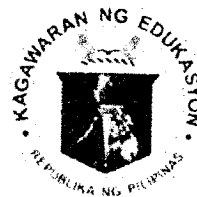
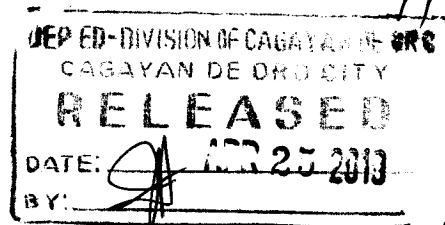


Republic of the Philippines  
**Department of Education**  
Region X-Northern Mindanao  
**DIVISION OF CAGAYAN DE ORO CITY**  
Fr. William F. Masterson, Jr. Avenue, Upper Balulang  
Cagayan de Oro City



### **DIVISION ADVISORY**

April 25, 2019



**To : Secondary School Heads  
Elementary School Heads  
Science Teachers  
This Division**

### **2<sup>ND</sup> NATIONAL TEACHERS' TRAINING - PHILIPPINE ASSOCIATION OF PHYSICS & SCIENCE INSTRUCTORS/TEACHERS**

Cognizant to the letter request of **DR. GIL NONATO C. SANTOS**, PAPSI Convenor of **Philippine Association of Physics & Science Instructors/Teachers (PAPSI)**, inviting us to participate in their **2<sup>nd</sup> National Training** on May 17-18, 2019 at Malayan College Mindanao, Matina, Davao City, the field is hereby informed and given the authority to decide provided all actions and decisions conform to DepEd Orders and Policies. See attachment for more details.

For information and guidance.

**JONATHAN S. DELA PEÑA, Ph.D., CESO V**  
Schools Division Superintendent

Encl.: Letter request

Reference: Letter request dated April 10, 2019 of DR. GIL NONATO C. SANTOS

To be indicated in the perpetual Index

Under the following subject:

Science Education  
National Training

CID/ETC



De La Salle University  
Taft Avenue Manila, Philippines

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April 10, 2019

**DR. JONATHAN S. DELA PEÑA, CESO V**  
**Schools Division Superintendent**  
DepEd Cagayan de Oro City Division, Region X  
Cagayan de Oro City

Dear Sir,

Warm greetings of peace & solidarity!

On behalf of the Philippine Association of Physics and Science Teachers (PAPSI), I am pleased to inform your good office that we will be holding our **Lecture Seminar-Workshop in Davao City on May 17-18, 2019** in partnership with the **Malayan Colleges of Mindanao**. The said seminar-workshop is a 2-day event **with corresponding CPD units** that covers both content and hands-on teachers' training on the requested topics in **Biology, Chemistry, Physics, Environmental & Science of Natural Hazards and Robotics (Integration of Math and Physics)**. Our organization strongly supports the curriculum planning and implementation of the K-12 education in the country as it aims to enrich the pedagogical content knowledge of our Science educators in the various fields of Natural Sciences and Mathematics.

For over two years, PAPSI members from Luzon (*drawing close to 900 members to date*) gather each month in conjunction with the De La Salle University (DLSU) Manila for a continuing training seminar in STEM education with emphasis on subject content and curriculum implementation. PAPSI training seminars incorporate teaching methodologies, active hands-on laboratory activities, and guidelines in conducting both action research and Science Investigatory Project (SIP) that will help equip our STEM teachers in cultivating and sustaining the interest of the learners in investigatory and research activities.

As a national organization of Physics and Science Instructors, PAPSI promotes the advancement of learning specifically in the field of Natural and Physical Sciences in the Philippines. It aims to upgrade the quality of science educators through training and workshops designed to strengthen their pedagogical content knowledge in various fields such as Physics, Chemistry, Biology, Earth and Environmental Science. The organization strongly supports the curriculum planning and implementation of the K-12 education in the country.

Moreover, the content lecture-seminar will be facilitated by the Full Professors from De La Salle University (DLSU) Manila along with the hands-on laboratory workshop through the Science Star (PASCO) corporation, a leading distributor and developer of technology-based laboratory equipment and solutions for hands-on science teaching for over 100 countries and Robotics Workshops by First EduSpec Inc, the no.1 K-12 IT Education provider in Asia.

Participants of the said seminar-workshop are Junior and Senior High School Science Teachers from both private and public secondary schools all throughout the region. **The registration fee is Php 2,200 that covers seminar kit, handouts, certificates, meals and snacks.** To confirm attendance and participation, registration is made by signing up to any of the following options:

- a. download and access PAPSI mobile application upon free download at either Google play (any Android device) or App Store ( iPhone, iPad, iPod touch, Apple TV, or Mac);
- b. fill up the google form by visiting this direct link: [bit.ly/papsiregisterdavao](http://bit.ly/papsiregisterdavao)
- c. send SMS or text "PAPSIDAVAO" to 0966-165-2084

and through **advance payment deposit of P1,000 (non-refundable)** to be deducted from the registration fee at the seminar payment venue.

**An early bird registration fee of P2,000 is open until May 1, 2019 to avail a Php 200 discount.** Those who wish to attend the seminar-workshop or avail the early bird registration shall deposit their advance payments at **BPI (Bank of the Philippine Islands)**, under **PAPSI Training Center, Savings Account 4949-7189-51** and email their deposit slip at [papsi.davao@gmail.com](mailto:papsi.davao@gmail.com). Complete payment information and procedure may be viewed at <http://bit.ly/paypapsidavao>. **Limited slots are available on a first-come, first-served basis.**

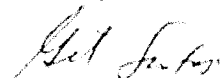
In this connection, PAPSI would like to request and seek support from your good office through the issuance of a **division wide memorandum** to all High School Principals, District Supervisors, Cluster Heads and Secondary Heads of both public and private Junior and Senior High Schools to strongly encourage and send their Science teachers to participate in this professional learning opportunity. Further, this will be for the professional development of our Science Teacher participants as they upgrade vertically in the practice of their teaching profession which will cascade and greatly promote the quality education of our students.

With the engaging workshops and exciting keynotes, we know that the great momentum built around the K-12 education in the Philippines will continue to flourish this year and in the next to come with the help of your good office. We are optimistic that through your support at hand, we can move onward to greater bounds in committed and pro-active academic service to our educational system.

Here is looking forward to your discerning attention and assistance to this defining undertaking. Should you need to contact us for discussion, more information and queries, our team leader in Mindanao, **Ms. Belinda B. Faustino** with contact number, (0917) 1581179 will help us facilitate a fruitful communication with you in the very near future.

We will truly appreciate to hearing a favorable response from you. Thank you very much.

Sincerely,



**PROF. DR. GIL NONATO C. SANTOS**

**Convenor, PAPSI**

Vice Chancellor for DLSU Laguna

Head, Solid State Physics Lab /iNano Research Facility

Email: [gil.santos@dlsu.edu.ph](mailto:gil.santos@dlsu.edu.ph)



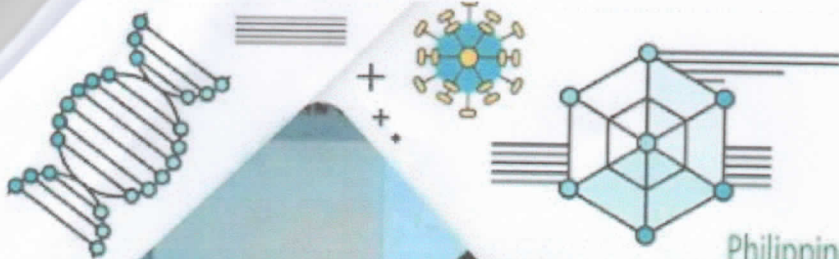
**Philippine Association of Physics and Science Instructors**  
 De La Salle University 2401 Taft Avenue, 1004 Manila  
**Lecture Series and Seminar-Workshop in Mindanao**  
 May 17-18, 2019  
**Malayan Colleges Mindanao**  
 Matina, Davao City



DATE	TOPICS (Based on DepEd Curriculum Guide)
Day 1: May 17, 2019	<b>Parallel Session</b>
Topic 1	<b>Biology- Genetics</b>  A. Laws of inheritance B. Central dogma of life, protein synthesis C. General principles and techniques in recombinant DNA technology; genetic engineering
Topic 2	<b>Environment &amp; Natural Hazards</b>  A. Geologic Processes and Hazards B. Hydrometeorological Phenomena and Hazards
Topic 3	<b>Hands-on Laboratory Activity 1 using Pasco equipment</b>
Day 2: May 18, 2019	<b>Parallel Session</b>
Topic 1	<b>Chemistry – Organic Molecules</b> A. The Carbon Atom B. Organic Molecules in Biological Systems
Topic 2	<b>Physics – Geometric Optics</b> A. Reflection and refraction at plane and spherical surfaces B. Mirrors C. Thin Lens
Topic 3	<b>Robotics Workshop - Integration of Math and Physics</b> <b>Hands-on Laboratory Activity 2 using Pasco equipment</b>

**PROGRAM OF ACTIVITIES**

<b>Time</b>	<b>Activity</b>	<b>Speaker</b>
<b>DAY 1</b>		
7:00 AM - 8:30 AM	Registration	
8:30 AM - 10:00 AM	<b>PLENARY SESSION</b> Opening Program	<b>Dr. Gil Nonato Santos</b> PAPSI Convenor Vice Chancellor for DLSU Laguna Head, Solid State and iNano Research Facility Full Professor, Physics Dept. DLSU
10:00 AM - 12:00 NN (1 <sup>st</sup> session)	<b>PARALLEL SESSION</b> Group A: <b>Biology-Genetics</b> Group B: <b>Environment and Natural Hazards</b> Group C: <b>Hands-on Workshop (PASCO)</b>	<b>Dr. Mariquit de los Reyes</b> <b>Ph.D. Chemical and Biochemical Engineering, University of Maryland, USA</b> Associate Professor 6 - Biology Department, DLSU  <b>Dr. Maria Cecilia Galvez</b> (Experimental Physicist) Full Professor, Physics Dept. DLSU  <b>Science Star (Pasco) Specialists</b>
12:00 NN - 1:00 PM	<b>LUNCH</b>	
1:00 PM - 3:00 PM (1 <sup>st</sup> rotation)  3:00 PM - 5:00 PM (2 <sup>nd</sup> rotation)	<b>PARALLEL SESSION</b> <i>Rotation of session assignments by group</i>	<b>Dr. Mariquit de los Reyes</b> Ph.D. Chemical and Biochemical Engineering, University of Maryland, USA Associate Professor 6 - Biology Department, DLSU  <b>Dr. Maria Cecilia Galvez</b> (Experimental Physicist) Full Professor, Physics Dept. DLSU  <b>Science Star (Pasco) Specialists</b>
<b>DAY 2</b>		
7:30 AM - 9:30 AM (1 <sup>st</sup> session)  9:30 AM - 11:30 AM (1 <sup>st</sup> rotation)	<b>PARALLEL SESSION</b> Group A: <b>Chemistry- Organic Molecules</b> Group B: <b>Physics -Geometric Optics</b> Group C: <b>Hands-on Workshop (PASCO)</b>	<b>Dr. Mariquit de los Reyes</b> Ph.D. Chemical and Biochemical Engineering, University of Maryland, USA Associate Professor 6 - Biology Department, DLSU  <b>Dr. Maria Cecilia Galvez</b> (Experimental Physicist) Full Professor, Physics Dept. DLSU  <b>Science Star (Pasco) Specialists</b>
12:00 NN - 1:00 PM	<b>LUNCH</b>	
12:30 PM - 2:30 PM (2 <sup>nd</sup> rotation)	<b>PARALLEL SESSION</b> <i>Rotation of session assignments by group</i>	<b>Dr. Mariquit de los Reyes</b> Ph.D. Chemical and Biochemical Engineering, University of Maryland, USA Associate Professor 6 - Biology Department, DLSU  <b>Dr. Maria Cecilia Galvez</b> (Experimental Physicist) Full Professor, Physics Dept. DLSU  <b>Science Star (Pasco) Specialists</b>
2:30 PM - 4:30 PM	<b>Robotics: Integration of Math &amp; Physics Parallel Workshop</b>	<b>Robotics Specialists from EduSPEC Inc.</b>
4:30 PM - 5:30 PM	Evaluation Closing Program Distribution of Certificates	<b>Dr. Gil Nonato Santos</b> PAPSI Convenor Vice Chancellor for DLSU Laguna Head, Solid State and iNano Research Facility Full Professor, Physics Dept. DLSU



# PAPSI

Philippine Association of Physics & Science Instructors



## 2ND PAPSI NATIONAL TEACHERS' TRAINING IN DAVAO

**VENUE** Malayan Colleges Mindanao  
Davao City

**DATE** MAY 17-18, 2019

**Limited Slots Only!**

via link : [bit.ly/papsiregisterdavao](http://bit.ly/papsiregisterdavao)  
via messenger: [www.fb.com/PAPSIpage](https://www.facebook.com/PAPSIpage)  
via sms: text DPAPSI to 0966-165-2084

**Download Invitation Letter here:**

[bit.ly/invitationpapsidavao](http://bit.ly/invitationpapsidavao)

**Payment Information here:**

[bit.ly/paypapsidavao](http://bit.ly/paypapsidavao)

### TRAINING FEE

2-day Fee: P2,200

Early Bird Promo: P2,000

*Inclusions:*

PAPSI ID, Meals & Snacks  
Seminar kit, Hand-outs, Certificates.

### TOPICS

- Biology - Genetics
- Chemistry - Organic Molecules
- Physics - Optics
- Environment & Natural Hazards
- Hands-on Activities (PASCO equipment)
- Robotics: Integration of Physics and Math

### PAYMENT

Bank Deposit: BPI

Savings Account: 4949-7189-51

Account Name: PAPSI Training Center

Kindly email the deposit slip to [papsi.davao@gmail.com](mailto:papsi.davao@gmail.com)



# CALL FOR PARTICIPANTS!

Equivalent CPD UNITS are in process

In Partnership with:



Early Bird Registration is open! Register and Pay in advance on or before May 1, 2019 to avail the discount