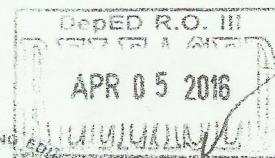




Republic of the Philippines  
**DEPARTMENT OF EDUCATION**  
**REGION III**

D. M. Government Center, Maimpis, City of San Fernando, (P)  
Tel. No (045) 4552310 4552312 4552314  
[www.depedregion3.com](http://www.depedregion3.com) / [region3@deped.gov.ph](mailto:region3@deped.gov.ph)



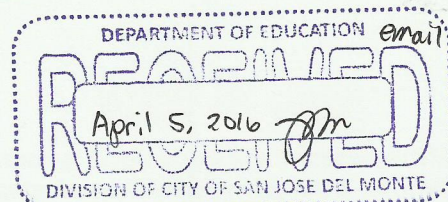
**ADVISORY**

To: Schools Division Superintendents

From: **MALCOLM S. GARMA, CESO V**  
Director III  
Officer-In-Charge  
Office of the Regional Director

Subject: **22<sup>ND</sup> SUMMER INSTITUTE IN THE NATURAL SCIENCES AND MATHEMATICS (SINSM)**

Date: March 28, 2016



The College of Science of the University of the Philippines Baguio shall undertake its 2<sup>nd</sup> Summer Institute in the Natural Sciences and Mathematics (SINSM) with the theme ***“Strengthening the K to 12 Science and Mathematics Concepts and Pedagogies”*** at the University of the Philippines Baguio campus on April 28-30, 2016.

Below is the list of the seminar-workshops that will be offered in this year's SINSM.

PARTICIPANT CATEGORY	SUBTHEME/TOPIC	EARLY BIRD REGISTRATION	ON-SITE REGISTRATION
Department of Biology	Understanding the Concepts of Genetics, Morphoanatomy, and Taxonomy in the Light of Evolution	P1,800.00	P2,000.00
Department of Physical Science	Addressing Issues in Content and Pedagogy in the K-12 Science Curriculum	P1,800.00	P2,000.00
Department of Mathematics and Computer Science	Research and Mathematics Education in Response to the K-12 Curriculum	P2,200* *and MSP members	P2,500.00
Human Kinetics Program	Exercise and the Environment	P2,200.00	P2,500.00

Enclosed are the letter of request of Prof. Liezel M. Magtoto, Chairperson of SINSM 2016 Committee, 22<sup>nd</sup> SINSM Registration Form, letter to the School Principal, and copy of the flyer, for ready reference.

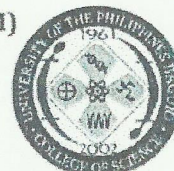
For details, please visit this website: [www.uph.edu.ph](http://www.uph.edu.ph) or email them at [sinsm.upbaguio@up.edu.ph](mailto:sinsm.upbaguio@up.edu.ph) for inquiries.





# SUMMER INSTITUTE IN THE NATURAL SCIENCES AND MATHEMATICS (SINSM)

College of Science  
University of the Philippines  
Gov. Pack Road, Baguio City 2600 Philippines  
Tel. No.: (074)-442-7231; Fax No.: (074)-444-3128  
Website: [www.upb.edu.ph](http://www.upb.edu.ph)



24 November 2015

## THE SCHOOL PRINCIPAL/OFFICER-IN-CHARGE

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

DEAR MADAM/SIR:

Greetings of service!

We are pleased to invite you to join the 22<sup>nd</sup> Summer Institute in the Natural Sciences and Mathematics (SINSM) of the College of Science, University of the Philippines Baguio with the theme "*Strengthening the K-12 Science and Mathematics Concepts and Pedagogies*" at the University of the Philippines Baguio campus on 28-30 April 2016.

The Summer Institute in the Natural Sciences and Mathematics (SINSM) is an annual extension service of the College that seeks to offer venues by which educators in the Sciences and Mathematics in the Cordillera region, as well as nearby areas, are updated on current issues in these fields. Since 1990, the SINSM has trained and updated secondary and tertiary teachers on the latest developments in theory, applications and pedagogy, as well as refresher courses in the basic concepts in the fields of Biology, Mathematics, Computer Science, Physics, Chemistry, and Geology. Our services are inspired by the very objectives of the Commission on Higher Education (CHED) in its desire to inculcate academic excellence in the teaching of Science and Mathematics-allied degree programs by strongly encouraging the conduct of lectures and seminar workshops that promote interest in and awareness of developments in the basic and advanced Sciences and Mathematics, together with the Department of Education's objectives to establish and maintain a complete, adequate, and integrated system of basic education relevant to the goals of national development.

Listed below are the seminar-workshops that will be offered by the College in this year's SINSM.

EVENT	SUBTHEME/TOPIC	EARLY BIRD REGISTRATION	ON-SITE REGISTRATION
Department of Biology	Understanding the Concepts of Genetics, Morphoanatomy, and Taxonomy in the Light of Evolution	P1,800.00	P2,000.00
Department of Physical Sciences	Addressing Issues in Content and Pedagogy in the K-12 Science Curriculum	P1,800.00	P2,000.00
Department of Mathematics and Computer Science	Research and Mathematics Education in Response to the K-12 Curriculum	P2,200.00* *and MSP Members	P2,500.00
Human Kinetics Program	Exercise and the Environment	P2,200.00	P2,500.00

Payment thru bank deposit (UPCB Educational Foundation, Inc. DBP Baguio Current Account 0510-004420-030) must be received by 10 April 2015 to avail of early bird registration. A copy of the bank transaction receipts should be sent to [sinsm.upbaguio@up.edu.ph](mailto:sinsm.upbaguio@up.edu.ph). All registered participants are entitled to have seminar kit, lunch and am/pm snacks.

We are requesting your good office to disseminate this information to your constituents as well and send them to participate. Thank you very much in anticipation of your favorable action and continuous support to these endeavors. Details are posted in this website: [www.upb.edu.ph](http://www.upb.edu.ph) or email us at [sinsm.upbaguio@up.edu.ph](mailto:sinsm.upbaguio@up.edu.ph) for inquiries and reservations.

Respectfully yours,

**PROF. LIEZEL M. MAGTOTO**  
Chairperson, SINSM 2016 Committee

Noted:

**PROF. ROSEMARY M. GUTIERREZ, Ph.D.**  
The Dean  
College of Science

**PROF. RAYMUNDO D. ROVILLOS, Ph.D.**  
The Chancellor  
University of the Philippines Baguio



#### ADVISORY

CHED Endorsement and DepEd Advisory regarding this activity shall be posted and can be downloaded from our website at: <http://www.upb.edu.ph>.

#### REGISTRATION DETAILS

Participant Category	Early Registration	On-site Registration
Department of Biology	P1,800.00	P2,000.00
Department of Physical Sciences	P1,800.00	P2,000.00
Department of Mathematics and Computer Science	P2,200.00* *and for MSP members	P2,500.00
Human Kinetics Program	P2,200.00	P2,500.00

Payment thru bank deposit (UPCB Educational Foundation, Inc. DBP Baguio Current Account 0510-004420-030) must be received by *April 10, 2016* to avail of early bird registration. A copy of the bank transaction receipts should be sent to [sinsm.upbaguio@up.edu.ph](mailto:sinsm.upbaguio@up.edu.ph). All registered participants are entitled to have seminar kit, lunch and am/pm snacks.

#### INQUIRIES

For more inquiries and reservation of slots, please contact:

##### SINSM Committee

**Prof. Liezel M. Magtoto**  
Committee Chair  
Contact #: 0916-757-2326  
Email address: [lmagtoto@up.edu.ph](mailto:lmagtoto@up.edu.ph)

**Mr. Reymart S. Lagunero**  
Committee Co-Chair  
Contact #: 0998-864-9140  
Email address: [rlagunero@up.edu.ph](mailto:rlagunero@up.edu.ph)

##### Representatives:

**Mr. Enrico Jugadora**  
Department of Biology  
Contact #: 0917-432-8629  
Email address: [jugadoraenrico@gmail.com](mailto:jugadoraenrico@gmail.com)

**Mr. Anthony M. Pasion**  
Department of Mathematics and Computer Science  
Contact #: 0933-237-8310  
Email address: [ampasion@up.edu.ph](mailto:ampasion@up.edu.ph)

**Prof. Bhazel Anne R. Pelicano**  
Department of Physical Sciences  
Contact #: 0917-726-7598  
Email address: [brpelicano@up.edu.ph](mailto:brpelicano@up.edu.ph)

**Dr. Jocelyn Floresca**  
Human Kinetics Program  
Contact #: 0928-745-6876  
Email address: [jho4floresca@yahoo.com](mailto:jho4floresca@yahoo.com)



*The*

**College of Science  
University of the Philippines  
Baguio**

*invites you to its*

## **22<sup>nd</sup> Summer Institute in the Natural Sciences and Mathematics (SINSM)**

*with the theme*

**"STRENGTHENING THE K-12  
SCIENCE AND MATHEMATICS  
CONCEPTS AND PEDAGOGIES"**

28-30 April 2016  
University of the Philippines Baguio



The Summer Institute in the Natural Sciences and Mathematics (SINSM) is an annual extension service of the College that seeks to offer venues by which educators in the Sciences and Mathematics in the Cordillera region, as well as nearby areas, are updated on current issues in these fields. Since 1990, the SINSM has trained and updated secondary and tertiary teachers on the latest developments in theory, applications and pedagogy, as well as refresher courses in the basic concepts in the fields of Biology, Mathematics, Computer Science, Physics, Chemistry, and Geology. Our services are inspired by the very objectives of the Commission on Higher Education (CHED) in its desire to inculcate academic excellence in the teaching of Science and Mathematics-allied degree programs by strongly encouraging the conduct of lectures and seminar workshops that promote interest in and awareness of developments in the basic and advanced Sciences and Mathematics, together with the Department of Education's objectives to establish and maintain a complete, adequate, and integrated system of basic education relevant to the goals of national development.

The 22<sup>nd</sup> SINSM is scheduled on 28-30 April 2016. Each Department in the College has its own theme, schedule and venue for the activity.

#### DEPARTMENT OF BIOLOGY

The Department of Biology adopts the theme *"Understanding the Concepts of Genetics, Morphoanatomy, and Taxonomy in the Light of Evolution"* for the 22<sup>nd</sup> SINSM. The thrust of this year's SINSM is to equip and train the K-12 educators of the concepts on genetics, morphoanatomy, taxonomy, and evolution.

An early bird registration fee of Php 1,800.00 applies to those who will register until April 10, 2016. On-site registration fee is Php 2,000.00. This entitles the participants to a seminar kit, lunch and snacks during the seminar-workshop proper but does not cover accommodations and meals outside the sessions.

#### DEPARTMENT OF PHYSICAL SCIENCES

The Department of Physical Sciences will be having its SINSM in two subject areas: Physics and Chemistry.

The theme for this year's SINSM is *"Addressing Issues in Content and Pedagogy in the K-12 Science Curriculum"*. The main focus of this year's SINSM is to give educators, especially secondary school teachers, more ideas and strategies in handling the physics and chemistry courses in the K-12 program, especially in laboratory work.

An early bird registration fee of Php 1,800.00 applies to those who will register until April 10, 2016. On-site registration fee is Php 2,000.00. This will entitle the participants with a seminar kit, lunch, AM and PM snacks during the workshop.

For the venue and more details, please contact Ms. Bhazel Anne Pelicano – email address: [brpelicano@up.edu.ph](mailto:brpelicano@up.edu.ph), contact # 09177267598.

#### DEPARTMENT OF MATHEMATICS AND COMPUTER SCIENCE

The Department of Mathematics and Computer Science adopts the theme *"Research and Mathematics Education in Response to the K-12 Curriculum"* for SINSM 2016.

The department will conduct lectures on Pre-Calculus (Analytic Geometry, circles, conic sections, series and mathematical induction, trigonometry), Calculus with Matlab (Functions, Limits and Continuity, Derivative and Integral), General Mathematics and Business Mathematics, Probability and Statistics, Mathematical Modelling and Optimization, Basic Computer Programming and Algorithm Design for high school students. The department will also conduct two plenary sessions on Elementary Higher Mathematics Courses for High School educators and Recent Trends in Mathematics Researches for tertiary educators.

An early bird registration fee of Php 2,200.00 applies to those who will register until 10 April 2016 (and for MSP Members) and Php 2,500.00 for on-site registration and MSP non-members. This will entitle each participants a seminar kit, lunch and snacks during the workshop proper.

#### HUMAN KINETICS PROGRAM (HKP)

The Human Kinetics Program intends to introduce Physical Education as an OUTDOOR RECREATION activity; where participants will have the opportunity to be involved in activities undertaken outside the confines of buildings and going into large areas of the environment. The highlights of the activities will include: Heart Rate Variability, Petanque, Camp Administration, Outdoor Team Building Activities and Bird Watching as a recreational Physical Education course.

The registration fee includes a camp fee for the 2<sup>nd</sup> and 3<sup>rd</sup> day and travel fee.





**SUMMER INSTITUTE IN THE NATURAL SCIENCES AND MATHEMATICS (SINSM)**

College of Science  
University of the Philippines  
Governor Pack Road, 2600 Baguio City  
Tel. No.: (074) 442-7231; Fax No.: (074) 444-3128  
Website: <http://www.upb.edu.ph>



03 February 2016

**THE REGIONAL DIRECTOR/OFFICER-IN-CHARGE**

Department of Education – Region III

Maimpis, City of San Fernando, Pampanga 2000 Philippines

**DEAR MADAM/SIR:**

Greetings of service!

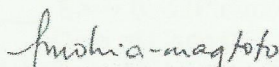
We are pleased to inform you that the **College of Science** of the **University of the Philippines Baguio** will be undertaking its 22<sup>nd</sup> Summer Institute in the Natural Sciences and Mathematics (SINSM) with the theme *“Strengthening the K-12 Science and Mathematics Concepts and Pedagogies”* at the University of the Philippines Baguio campus on 28-30 April 2016.

The SINSM is an annual extension service of the College of Science. Since 1990, we had trained and updated secondary and tertiary teachers on the latest developments in theory, applications and pedagogy, as well as refresher courses in the basic concepts in the fields of Biology, Mathematics, Computer Science, Physics, Chemistry, Geology, and recently in Sports Science. Our service is inspired by the very objectives of the Department of Education in its desire to establish and maintain a complete, adequate, and integrated system of basic education relevant to the goals of national development through the conduct of lectures and seminar workshops related to these fields.

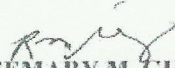
In connection to this, we are hereby requesting from your good office an advisory regarding this activity. We have attached copy of the flyer for the details of our seminar/workshop for your kind perusal.

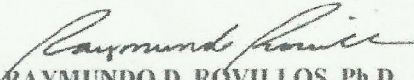
Thank you very much in anticipation of your favorable action and continued support to these endeavors. Details are posted in this website: [www.upb.edu.ph](http://www.upb.edu.ph) or email us at [sinsm.upbaguio@up.edu.ph](mailto:sinsm.upbaguio@up.edu.ph) for inquiries.

Respectfully yours,

  
**PROF. LIEZEL M. MAGTOTO**  
Chairperson, SINSM 2016 Committee

Noted:

  
**PROF. ROSEMARY M. GUTIERREZ, Ph.D.**  
The Dean  
College of Science

  
**PROF. RAYMUNDO D. ROVILLOS, Ph.D.**  
The Chancellor  
University of the Philippines Baguio





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College of Science

University of the Philippines

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Tel. No.: (074) 442-7231; Fax No.: (074) 444-3128

Website: <http://www.upb.edu.ph>



**22<sup>nd</sup> SINSM REGISTRATION FORM**

FOR ONLINE REGISTRATION, PLEASE VISIT: <http://goo.gl/forms/VgSa0c4l4a>

Please LEGIBLY. Do not leave any field blank. Write NA if not applicable.

Salutation (Prof./Dr./Mr./Ms.):	
Last Name:	
First Name:	
Middle Name:	
Active Phone No.:	
Active Email address:	
Please print your name as you would like to appear in the certificate:	
School:	
School Address:	
Phone No.:	
Email Address:	

I will attend SINSM 2016 on the discipline of:

- ☐ BIOLOGY  
☐ CHEMISTRY  
☐ PHYSICS  
☐ MATHEMATICS  
☐ BLOCK A  
☐ BLOCK B

**Payment options:**

- ☐ Early bird (Please attach transaction receipt):  
Date of Deposit: \_\_\_\_\_  
Bank Name and Branch: \_\_\_\_\_  
Amount Deposited: \_\_\_\_\_  
  
☐ On-site

Would you like to reserve an accommodation slot in the UP Dormitory?

- ☐ Yes  
☐ No

Please email this registration form to:

[sinsm.upbaguio@up.edu.ph](mailto:sinsm.upbaguio@up.edu.ph) or send it thru fax at (074)-444-3128.