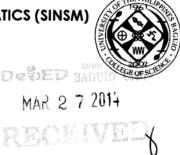


SUMMER INSTITUTE IN THE NATURAL SCIENCES AND MATHEMATICS (SINSM)

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



25 March 2014

DR. FRANCIS CESAR B. BRINGAS CESO VI

OIC, Schools Division Superintendent Baguio City

Dear Dr. Bringa,

We are pleased to inform you that the College of Science of the University of the Philippines Baguio will be undertaking its 20th Summer Institute in the Natural Sciences and Mathematics (SINSM) on May 1-3, 2014 at the University of the Philippines Baguio campus.

The **Summer Institute in the Natural Sciences and Mathematics** (SINSM) is an annual extension service of the College that seeks to offer interactive venues for educators and researchers in the Sciences and Mathematics in the Cordillera region, as well as nearby areas. Since 1990, the SINSM has provided training for 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 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. This year, the Human Kinetics Program will be joining to give updates and innovations in Sports Science.

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

EVENT	DATES		SUBTHEME/TOPICS	EARLY BIRD	ON-SITE
Biology	Part I: May		Current Trends and Innovations in Biological	Php 1,200.00	Php 1,500.00
	2-3, 2014		Researches	(per part)	(per part)
	and Part II:		Part 1: Field Methods		
	June 13-14,		Part 2: Laboratory Methods and Community		
	2014		Participatory Action Research Methods		
Physics and	May	1-3,	Content Enrichment and Laboratory Demos in	Php 1,750.00	Php 1,900.00
Chemistry	y 2014		Physical Sciences	-	
Mathematics	May	1-3,	Mathematical Tools Toward Enhancing and	Php 2,000.00	Php 2,200.00
and	2014		Developing Mathematics Teaching and		
Computer			Research		
Science					
Human	May	2-3,	Updates and Innovations in Sports Science	Php 1,200.00	Php 1,500.00
Kinetics	2014			Php 1,000.00	
				(student rate for HKP only)	

Payment thru bank deposit (UPCB Educational Foundation, Inc. DBP Baguio Current Account 0510-004420-030) must be received by *April 11, 2014* (and May 26 for Part 2 of DB) to avail of early bird registration. A copy of the bank transaction receipts should be sent to <u>sinsm2014@gmail.com</u>. All registered participants are entitled to have seminar kit, lunch and am/pm snacks.

In this regard, may we request your good office to issue a memorandum to your respective division regarding the activity? We believe that your endorsement will encourage our teachers to participate in this important event. Thank you very much in anticipation of your favorable action and continued support. Details are posted in this website: http://www.upb.edu.ph or email us at sinsm2014@gmail.com for inquiries.

Respectfully yours,

DR. ZENAIDA G. BAOANAN 20th SINSM Chairman Noted by:

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DR. IAN JASPER A. AGULO OIC Dean, College of Science

pril 2, 2014 To: All Secondary School Principals (Public) FOR YOUR INFORMATION AND GUIDANCE. FRANCIS CESAR B. BRINGAS, CESO VI OIC, Schools Division Superintent

incl and "Ma	studying angiogenesis, plant tissue culture, morphological, and molecular phylogeny. The training is designed for secondary and tertiary level
Dev	focus on Community Participatory Action Research
"Ma	measurement in freshwater ecosystems. The second part will be held on lune 13-14 2014 with
Cor	higher plants; mist netting of bats and birds; collection and identification of ants; and, productivity
A	May 2-3, 2014 showcasing field methods that
G	of lectures and workshops on topics related to Current Trends and Innovations in Biological
stu	The Department of Biology will have series
Suc	DEPARTMENT OF BIOLOGY (DB)
Da:	naguio campus.
pra	conducted at the University of the Philippines
of	
ang	theme, "Content Enrichment in Teaching and
١đ	Kinetics Program for the fact time to the Human
ph	Sciences and Mathematics.
inn	of developments in the basic and advanced
	workshops that promote interest in and awareness
Ve	Mathematics-allied degree programs by strongly
Ph	excellence in the teaching of Science and
lec	Education (DepEd) to inculcate academic
se	Higher Education (CHED) and the Department of
6	Physics, Chemistry, and Geology. Our services are
	of Biology, Mathematics, Computer Science,
	refresher courses in the basic concepts in the fields
	the latest development
ac th	
рг	region as well as posthy group for the Cordillera
P	the Science and Mathematics and researchers in
5 G	extension service of the College that seeks to offer
e	Sciences and Mathematice (SINSM) is an approxi-

tucators, research staff of environment-related overnment agencies and NGOs who are planning do field research and biodiversity studies. articipants may choose to attend one part or both it will be charged separately. Participants are tvised to be on field work and laboratory attire for e respective workshops.

DEPARTURA (OT PRAVISANA E OT MARKARA

ta Acquisition System), and Consumer Chemistry ch as soap making. The target clientele are trumentation (DIY Simple and Cost-Effective ictical work in lected topics in Physics and Chemistry through PS) will hold its activities on May 1-3 aimed at dents may also participate Jreen house gases emission). They will also give d Green Chemistry (i.e. practices for the reduction ole, chemical reactions in Consumer Chemistry ones/tablets. The Chemistry sessions will consist ovative ysics, lectures and activities on measurements tures and interactive hands-on activities. For riching content, pedagogy, and comprehension of inly secondary teachers but tertiary teachers and lectures on the latest elements of the Periodic lisions, periodic motion, fluid mechanics, and nensions, momentum and energy conservation in analysis, dynamics of motion in al The Department of Physical data acquisitions using High School Chemistry. Sciences smart

AND COMPUTER SCIENCE (DMCS)

The Department of Mathematics and Computer Science has adopted the subtheme Mathematical Tools Toward Enhancing and Developing Mathematics Teaching and Developing Mathematics Teaching and Research". The highlights of the activities will nclude plenary talks on "IP Education Framework nd tts Implications to Mathematics Instruction" and Mathematics Literacy for General Education in the

> attend Secondary school teachers working on investigatory projects in Mathematics are also encouraged to offering undergraduate and graduate degrees in workshops will focus on Learning Management Mathematics intended for graduate students and faculty of HEIs Typesetting. System using Moodle and LaTeX Mathematical Differential Equations, and Genetic Algorithm. The Dynamical Systems, Applications using Delay Preliminaries Philippines". There will be lectures on Mathematica on Differential and Mathematics The lectures and workshops are Equations Education and

HUMAN KINETICS PROGRAM (HKP)

Sport and Conditioning; Dance Innovations (Basic Latin Education Majors in the Cordillera and nearby lectures and workshops are intended for Physical Education Teachers, Coaches, and Physical Dances) and Sports Taping and Bandaging. The Management; Nutrition and Performance; Strength and Periodization; Exercise and the Environment; session type including topics on: Functional Training Program will join the SINSM with their subtheme provinces The seminar/workshop format will be parallel "Updates and Innovations in Sports Science" Psychology; This is the first time that the Human Kinetics Injury Prevention and

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CHED and DepEd Memoranda regarding this activity shall be posted on and may be downloaded from our website at: <u>http://www.upb.edu.ph</u>.

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On-site registration	Php 1,500.00 (per part)	Php 1,900.00	Php 2,200.00	p 1,200.00 Php 1,500.00 Php 750.00 (for HKP student
Early Bird	Php 1,200.00 (per part)	Php 1,750.00	Php 2,000.00 ¹	Php 1,200.00 Php 750.00 (fo narticina
Participant Category	Biology Part I :May 2-3 Part II.June 13- 14, 2014	Physics & Chemistry May 1-3, 2014	Mathematics & Computer Science May 1-3, 2014	Human Kinetics May 2-3, 2014

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For more inquiries and reservations of slot/s, please contact:

SINSM Committee

Dr. Zenaida G. Baoanan Committee Chair Contact #: 0906-729-7964/ 0932-527-7856 Email address: zgbaoanan@up.edu.ph Prof. Dymphna N. Javier Co-chair Contact #: 0927-3901798 Email address: dee_upbaguio@yahoo.com

Biology Ms. Liezel M. Magtoto Committee Chair Contact #: 0916-7572326 Email address: Izel_m@yahoo.com

Physics and Chemistry Ms. Bhazel Pelicano Department Representative Contact #: 0917-726-7598 Email address: bhazie@gmail.com Mathematics and Computer Science Dr. Juancho Collera Department Representative Contact #: 0917-506-4738 Email address: jacoltera@up.edu.ph Human Kinetics Dr. Jocelyn Floresca Program Representative Contact #: 0928-745-6876 Email address: jho4floresca@yahoo.com





The

College of Science University of the Philippines Baguio

invites you to its

20th Summer Institute in the Natural Sciences and Mathematics (SINSM 2014)

with the theme

"Content Enrichment in Teaching and Research Methods" 1-3 May 2014 13-14 June 2014 (for Biology only) University of the Philippines Baguio