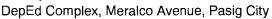


## Republic of the Philippines

## Department of Education





OCT 1 8 2010

DepEd MEMORANDUM No. **454** , s. 2010

## WORKSHOP ON ACTIVE LEARNING IN OPTICS AND PHOTONICS

To: Regional Directors

Schools Division/City Superintendents Heads, Public Secondary Schools

- 1. The University of the Philippines National Institute for Science and Mathematics Education Development (UP NISMED) in coordination with the Bureau of Secondary Education (BSE) of this Department, shall conduct the **Workshop on Active Learning in Optics and Photonics (ALOP)** on November 14-19, 2010 at the UP NISMED, Diliman, Quezon City.
- 2. The workshop aims to raise the quality of Physics teaching in the country particularly in light and optics.
- 3. The forty (40) participants to the workshop include one (1) Physics teacher each from the seventeen (17) Regional Science High Schools (RSHS), and five (5) S & T Oriented High Schools, sixteen (16) Physics Instructors from the laboratory schools of colleges of education including the UP Integrated School (UPIS), and teacher training institutions offering science specialization and two (2) education specialists from BSE. They shall attend **on official business**.
- 4. The participants to this activity will be given free registration, lunch and snacks, and accommodation at the UP NISMED Hostel. Transportation and other incidental expenses including breakfast and dinner shall be charged to local funds or other funding sources subject to the usual accounting and auditing rules and regulations.
- 5. For more information, please contact **Dr. Merle C. Tan**, Director, UP NISMED at telephone nos.: (02) 981-8500 locals 3901 to 3909; (02) 928-1563; (02) 927-4276 and telefax no.: (02) 928-3545. Please refer to the enclosure for the Schedule of Activities.

6. Immediate dissemination of this Memorandum is desired.

BR. ARMIN A. LUISTRO FSC

Secretary

Encl.: As stated Reference: None

To be indicated in the <u>Perpetual Index</u> under the following subjects:

SCIENCE EDUCATION

**TEACHERS** 

**WORKSHOPS** 

R-MCR/<u>DM-Optics</u> 10-12-10



## Active Learning in Optics and Photonics, ALOP Quezon City 2010 A UNESCO Workshop

14- 19 November 2010, National Institute for Science and Mathematics Education, University of the Philippines, Quezon City, Philippines

Workshop Programme

14 November Sunday	Arrival of participants and resource persons; preparation of	
14 November, Sunday		ials and resource persons; preparation of ials and equipment
15 November, Monday	9:00-10:30 am	Opening Ceremony
	10:30-11:00	Welcome snacks
	11:00-1:00	Introduction to workshop; Introduction of
		participants, sharing information (MA)
	1:00-2:30 pm	Lunch
	2:30-4:45	Light and Optics Conceptual Evaluation
		(LOCE) pretest (DS)
	4:45-5:00	Coffee break
	5:00-6:00	Introduction to Active Learning (DS)
16 November, Tuesday)	9:00-11:00 am	Geometrical Optics: Rectilinear Propagation
		of Light, Reflection and Refraction (DS)
	11:00-11:15	Coffee break
	11:15-1:00	Geometrical Optics: Rectilinear Propagation
		of Light, Reflection and Refraction (DS)
	1:00-2:00 pm	Lunch
	2:00-2:45	Geometrical Optics: Rectilinear Propagation
		of Light, Reflection and Refraction (DS)
	2:45-4:00	Lenses and Optics of the Eye (VL)
	4:00-4:15	Coffee break
	4:15-6:30	Lenses and Optics of the Eye (VL)
	After dinner	Working group peer evaluation (ALOP team)
17 November,	8:30-9:30 am	Lenses and Optics of the Eye (VL)
(Wednesday)	9:30-11:00	Interference and Diffraction (JM)
	11:00-11:15	Coffee break
	11:15-1:15	Interference and Diffraction (JM)
	1:15-2:30 pm	Lunch
	2:30-	*CULTURAL ACTIVITY/ Free time
	After dinner	Working group peer evaluation (ALOP team)
18 November, Thursday)	9:00-10:00 am	Interference and Diffraction (JM)
	10:00-11:00	Atmospheric Optics (IC)
	11:00-11:15	Coffee break
	11:15-1:00	Atmospheric Optics (IC)
	1:00-2:00 pm	Lunch
	2:00-3:45	Atmospheric Optics (IC)
	3:45-4:00	Coffee break
	4:00-6:30	Optical Data Transmission; Wavelength
	1	Division Multiplexing (AM)
	8:00-	*FELLOWSHIP DINNER
19 November, Friday)	9:00-11:00 am	Optical Data Transmission; Wavelength
		Division Multiplexing (AM)
	11:00-11:15	Coffee break
	11:15-1:00	LOCE posttest (DS)
	1:00-2:30 pm	Lunch
	2:30-3:30	LOCE discussion (DS)
	3:30-3:45	Coffee break
	3:45-5:15	Feedback, discussion (MA)
	5:15-	Closing Ceremony
	After dinner	Working group meeting (ALOP team)
2011		
20 November Saturday	Departure from Quezon City	
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