



OCT 18 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 Perpetual Index
under the following subjects:

SCIENCE EDUCATION

TEACHERS

WORKSHOPS

R-MCR/DM-Optics
10-12-10



(Enclosure to DepEd Memorandum No. 454, s. 2010)

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 workshop materials 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, Wednesday	8:30-9:30 am	Lenses and Optics of the Eye (VL)
	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 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)	
20 November, Saturday	Departure from Quezon City	