





الجمعية القطرية للفيزياء
Qatar Physics Society

NEW FRONTIERS IN LEARNING & TEACHING WORKSHOPS FOR PHYSICS TEACHERS November 16 & 19, 2006



INVITATION

You are cordially invited to attend the second physics teachers workshop. Please register by sending your name and contact information by email or fax.

PROSPECTUS																																					
Topic:	Electromagnetic Radiation																																				
Place:	Qatar University, Science Girls Building, General Physics Lab																																				
Dates:	Thursday, November 16, 2006 (Ladies only) Sunday, November 19, 2006																																				
Organizers:	Qatar Physics Society, in collaboration with Weill Cornell Medical College, Qatar University.																																				
Language:	The language of instruction will be English.																																				
Background:	A basic part of learning comes from allowing students to learn by observation. Studies show they learn best when they can go from the concrete to the abstract. Active learning involves having students spend class time actively engaged in doing/thinking/talking physics. Inquiry based teaching has students start with their own observations, develop basic concepts, construct models, and make predictions.																																				
Participation:	Participation is open to all physics teachers/supervisors in secondary level government or independent schools.																																				
Objective:	Teachers will explore the topic of electromagnetic radiation through a short lecture and hands on lab based around active learning approaches. Most of the workshop will be spent in an optics lab. Many of the materials used here will be ones that are easily available; some activities will use the laser pointer each participant will receive. A few of the topics will deal with more modern topics (as suggested by participants at the first workshop this fall).																																				
Programme:	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center; width: 20%;"></th> <th style="text-align: center; width: 20%;">Thursday</th> <th style="text-align: center; width: 20%;">Sunday</th> <th style="width: 40%;"></th> </tr> </thead> <tbody> <tr> <td></td> <td style="text-align: center;">09:30 – 09:45</td> <td style="text-align: center;">16:00 – 16:15</td> <td>Registration</td> </tr> <tr> <td></td> <td style="text-align: center;">09:45 – 10:45</td> <td style="text-align: center;">16:15 – 17:15</td> <td>Opening session:</td> </tr> <tr> <td></td> <td></td> <td></td> <td>Physics by Inquiry II (RH)</td> </tr> <tr> <td></td> <td></td> <td></td> <td>Photoelectric effect experiments/demonstrations (RH)</td> </tr> <tr> <td></td> <td></td> <td></td> <td>QU radiation measurement capabilities (IQ)</td> </tr> <tr> <td></td> <td style="text-align: center;">10:45 – 11:00</td> <td style="text-align: center;">17:15 – 17:30</td> <td>Coffee Break</td> </tr> <tr> <td></td> <td style="text-align: center;">11:00 – 13:00</td> <td style="text-align: center;">17:30 – 19:30</td> <td>Optics Lab:</td> </tr> <tr> <td></td> <td></td> <td></td> <td>Fundamentals and applications</td> </tr> </tbody> </table>		Thursday	Sunday			09:30 – 09:45	16:00 – 16:15	Registration		09:45 – 10:45	16:15 – 17:15	Opening session:				Physics by Inquiry II (RH)				Photoelectric effect experiments/demonstrations (RH)				QU radiation measurement capabilities (IQ)		10:45 – 11:00	17:15 – 17:30	Coffee Break		11:00 – 13:00	17:30 – 19:30	Optics Lab:				Fundamentals and applications
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