**Workshop on: Active Learning in Optics: Two Examples**

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Optics is an enabling technology that has far ranging importance in fields such as nanoscience. However, it is not of great interest to the vast majority of students. A solution to this problem is the training of teachers in active learning methodologies. We will organize a workshop to present an example of an active learning process in Optics developed for training of teachers in developing countries (a UNESCO project) and will focus on 2 modules:

1/Interference & diffraction is considered by students as being very hard to understand and is taught in most developing countries as purely theoretical with almost no experiments. Simple experiments to enhance the conceptual understanding of these wave phenomena will be presented.

2/ Lenses and optics of the eye are of interest to all students. In this module, we will deal with image formation by eye, myopia, hyperopia, astigmatism and accommodation.

The objectives of the workshop will be:

1. To provide an experience of the use of the active learning method in optics including the use of experiment, mind’s on & hands-on exercises, group & class discussions

2. To share information about teaching of optics in high school & universities.