

Announcement of a Workshop for Teachers on “Active Learning (ALOP) and Experimental Problem Solving in Physics”

Homi Bhabha Centre for Science Education (HBCSE), Mumbai, under the National Initiative on Undergraduate Science (NIUS - Physics) is happy to announce a 3-day Workshop for physics teachers from high school, junior college, UG and Physics Education Researchers on “Active Learning (ALOP) and Experimental Problem Solving in Physics”. The workshop will be held at HBCSE, Mumbai during January, 10 - 12, 2018.

The workshop will be facilitated by Prof. David Sokoloff from the University of Oregon, USA (<https://physics.uoregon.edu/profile/sokoloff/>) and Dr. Rajesh Khaparde from the HBCSE-TIFR, MUMBAI. (<http://www.hbcse.tifr.res.in/people/academic/rajesh-b-khaparde>). This workshop will have sessions on UNESCO supported Active Learning in Optics and Photonics (ALOP) The entire 6 module lab manual (about 270 page) will be given to all the participants. The participants will get the first hand experience of entire ALOP modules, which consists of several experiments, demonstrations and activities, which teachers can use in their schools/colleges. Further, the participants will be introduced to the basic idea of Procedural Understanding (PU) and Experimental Problem Solving (EPS) in Physics. There will be lab sessions, design and practice sessions on EPS during which each participant will work on given tasks. Also EPS as an assessment tool will be discussed. Teachers will be given written material on important aspects of training in Experimental physics and EPS. Teachers will be briefly introduced to a set of simple experimental problems in optics, electricity and magnetism.

There is no registration fee, free accommodation and local hospitality will be provided. Participants will have to spend for their travel to and from Mumbai. For participating in this workshop interested teachers and researchers are requested to send a request for participation by Email to Dr. Rajesh Khaparde (rajeshkharparde@gmail.com) with their latest CV before November 28, 2017.