



# GIREP-EPEC

Transforming physics learning via Research & Practice  
LEIDEN, 2025

Contribution ID: 102

Type: **Workshop**

## Introduction to Active Learning in Optics and Photonics (ALOP) - INSTR

*Tuesday 1 July 2025 09:00 (1h 30m)*

**Abstract.** Active Learning in Optics and Photonics (ALOP) is a program to improve the secondary and university introductory physics learning environment. A full 5-day intensive, hands-on-minds-on ALOP workshop updates participants on introductory optics and photonics and introduces them to strategies that have been demonstrated to be more effective than traditional instruction. These are characterized by use of predictions, discussions, and student direct observations of the physical world with inexpensive equipment. This hands-on workshop is a very short introduction to the ALOP strategies, with sample activities from some of the five ALOP modules. Participants will receive an electronic version of the ALOP Manual including all activities. More information on ALOP is at: <https://pages.uoregon.edu/sokoloff/ALOPwebpage.html>

### Education level

Age over 18 (excluding teacher education)

### Physics topic

Other

### Research focus

Active learning

### Research method

Practitioner's Inquiry / Action Research (Qualitative research)

### Organizing preference criteria

Education level

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**Session Classification:** Workshops

**Track Classification:** Instructional strategies & Curricula (INSTR)