

Advanced Workshop on Technology for Sustainable Development: Low-Cost Tools to Support Scientific Education



17 - 21 September 2018
Trieste, Italy

Further information:
<http://indico.ictp.it/event/8334/smr3238@ictp.it>

Technology plays a big role in sustainable development in all of its aspects: social, environmental, economic and scientific. The recent development of low cost technologies (electronic boards, sensors, 3D printing, etc.) can empower scientists and educators from developing countries in fostering scientific knowledge.

Description:

In this workshop we will cover some of the low cost tools that can be used in universities to support courses in physics and engineering. We will present concrete examples of projects that can be carried out during post-graduate courses. We will study in depth one important case study, the LED Sun Photometer, which provides an ultra-low cost solution for education and science.

Topics:

- Sustainable Development Goals and the role of technology;
- Open hardware and open software tools;
- IoT4D: Internet of Things for Development;
- 3D printing and the FabLab revolution;
- The role of inexpensive technology in education (example: hand-made robot for kids, programmed in local language);
- A case study, the LED Sun Photometer: from blueprinting to deployment in the field.

Directors:

E. MILOTTI, University of Trieste, Italy
S. MARKON, Kobe Institute of Computing, Japan
M. ZENNARO, ICTP

How to apply:

Online application:
<http://indico.ictp.it/event/8334/>

Female scientists are encouraged to apply.

Grants:

A limited number of grants are available to support the attendance of selected participants, with priority given to participants from developing countries. There is no registration fee.

Deadline:

4 June 2018

