

Ethiopian Regional Workshop on Solar Energy and Energy Storage Technologies: Materials, System Design and Applications



15 - 19 October 2018

Addis Ababa Science and Technology University (AASTU)

Addis Ababa, Ethiopia

Further information:

<http://indico.ictp.it/event/8352/>

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The Workshop addresses students and researchers working in the field of solar energy and energy storage. The event will focus on fundamental and applied research on functional materials, on devices and on their application.

Description:

To cope with increasing global energy demand, solar energy is one of the best alternatives. The feasibility of solar energy technology in Africa, where the sun is available throughout the year, is not questionable. This huge energy can be used as photo-thermal and in photovoltaic forms. For efficient conversion of solar energy it is very important to have a clear understanding of the photo-physical and opto-electrical properties of materials. In parallel with the development of photovoltaic devices, due attention has to be given to the storage of electrical energy in easily portable chemical energy forms and/or in an electrical field. Since solar energy is collected only in the day time, it is also wise to develop alternative technologies such as storage for renewable energy forms.

Topics:

- Current photovoltaic systems, new technologies;
- Promise of nanoscience and technology in this field;
- Wind and geothermal energy: potential and installations in Ethiopia;
- Energy storage: fuel cells, batteries and supercapacitors;
- Importance of materials science, experimental and computational approach;
- Renewable energy potentials in the region.

Director:

Teketel YOHANNES,
AASTU, Addis Ababa, Ethiopia

Local Organizers:

Ralph GEBAUER, ICTP, Trieste, Italy
Nicola SERIANI, ICTP, Trieste, Italy

Workshop Speakers:

Michael ARMAND, Parque Tecnológico, Spain
Vladimr DYAKONOV, Wuerzburg, Germany
Gebrekidan G. ESHETU, Ulm, Germany
Sosina M. HAILE, Northwestern, U.S.A.
Harold HOPPE, Jena, Germany
Kenneth I. OZOEMENA, Witwatersrand, South Africa
Stefano PASSERINI, Ulm, Germany
Markus C. SCHARBER, Linz, Austria
Sahle TAMIR, MOWIE, Ethiopia

How to apply:

Online application:
<http://indico.ictp.it/event/8352/>

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:

15 July 2018



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Science and
Technology



The Abdus Salam
International Centre
for Theoretical Physics
www.ictp.it
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