

SOLAR CELLS IN THEORY AND PRACTICE

(SCITAP-2018-A)

25 June – 29 June, 2018

University of Rwanda, Kigali, Rwanda

Background and purpose

A 5-day intensive mini school, organized by the ICTP East African Institute for Fundamental Research (EAI FR) will be held at the ICTP-EAI FR premises of the University of Rwanda, Kigali. The goal of the short school is to train scientists and engineers in solar cells research and practical applications, i.e., it aims to train participants in photovoltaic science and technology.

Topics covered

- * Working Principles of Solar Cells
- * Development of Dye Sensitized Solar cells (DSSCs): Theory and Hands on Session
- * Device Simulation of Solar Cells
- * Absorption Spectra of materials relevant to DSSCs
- * Set up of Practical Solar Systems (Theory and Hands on):
 - + Solar Irradiance
 - + Connecting cells to make modules
 - + Battery Choices
 - + Power Input/Output determination
 - + Solar Panel Choices and Positioning;
 - + Charge Controller
 - + Suitable Inverters
 - + Connecting Modules/Panels

Participation Information

This workshop is open to science and engineering graduates with a demonstrated interest in solar cells science and/or technology. Women candidates are strongly encouraged to apply. Selection of participants will be based on their technical background. **An application for participation in the workshop can be found at:**

<https://goo.gl/forms/90BNgglxnPns168y1>

Deadline for application: June 17, 2018

For further information contact: info@eaifr.org or workshop20180625@eaifr.org

Organizing team: ICTP-EAI FR, UR

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