Arab-European Summer School On Energy Education

Scientific Program

(2 weeks, 70h)

Topics:

Wind - /Geothermal- /Hydro-power Solar energy Bio- energy Energy storage Economic of energy sources & technology

Energy efficiency / Energy conservation Practical measurements: PV-modules

History of nuclear science
Technology and safety of NPP
Nuclear accidents
Non-proliferation and nuclear treaties
Principles of radiation protection
Nuclear medicine - radiation therapy
Practical measurements: radiation detectors

AESSEE is organized for Arabic speaking countries which are members of the Arab-League, so to facilitate a more efficient program and teamwork without language barriers. If we will receive a suitable invitation and the necessary technical and financial support, it is possible to organize the school at one of the Arab countries during summer 2016.

Contact

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(For Arabic correspondence)





19 - 31 October 2015 Vienna University of Technology Atominstitut Vienna, Austria

Education is the main key to change the situation in emerging countries; however, schools are overcrowded, tools for experimental training and practical skills are lacking or altogether missing, and teachers motivations are absent. If we want to make a change, we have first to start with schools, and accordingly with teachers. Through the summer school and real cooperation, this program is unique in that it bridges the gap and moves the situation forward so as to positively change the situation of energy education and related technologies. We plan to organize the first Summer School for 20-25 participants, each representing a different school; therefore, the benefit is to be reflected to at least 25,000 students. This is the first step.

General Objectives

- Improve the scientific and environmental skills of technical and secondary schools teachers in regard to renewable /non-renewable energy.
- Teachers will be in direct contact with international organizations and experts from Austria and EU.
- Provide the opportunity to work in an international team to solve problems and develop educational programs while reducing costs through cooperation.
- Develop programs for optimal use of available resources and multimedia on the Internet after adaptation to the national language & curriculum.
- Prepare and support students for higher education and careers in the field of energy and related technologies.
- Help teachers to set-up a platform via the Internet for those teachers and students working on energy education and outreach programs.
- Practical experience with modules and laboratory kits provides teachers with the necessary skills to use such facilities in schools for further development and efficient education.

Last updated: 29. June, 2015

Chairmen

Prof. Saleh Ismail Prof. Helmuth Böck Prof. Johann Summhammer

Important Dates

Registration: 01.06 - 03.08.2015

Invitation letters 10 August

Welcome Reception 18.10 (18:00 - 20:00) Closing Ceremony 30.10 (18:00 - 21:00)

language

Official language: English

Fee

Registration Fee 1900 \in Students 500 \in

The registration fee includes the following:

- Welcome reception
- Participation in all sessions
- Print materials
- Coffee breaks
- Excursions
- Gala Dinner

Who should attend?

Teachers (i.e., Secondary/Technical Schools), Interested scientists from universities Students (Education, Science, Energy, etc.)

Financial Support

A financial support is possible. To be selected, the participants should send their CVs and a short proposal (300-400 words) about "Initiatives to improve energy efficiency and renewable energy culture". Based on the CVs and the provided proposals, some candidates (max. 3 from each country) will get financial support (up to 2200 €+ participation fee) to cover a part of their travel and accommodation expenses.

Registration

Please send your registration by Email:

<u>office-aessee@ati.ac.at</u>

Registration-Form under:

http://ati.tuwien.ac.at/events/aessee

Sponsors / Cooperation OFID

OPEC Fund for International Development We acknowledge OFID for the significant financial support.

Energy Working Group

of the Austrian Physical Society

AACC

Austro-Arab Chamber of Commerce