

## WORKSHOP: CHALLENGES AND POTENTIAL OPPORTUNITIES OF RENEWABLE ENERGY AND WATER RESOURCES IN EGYPT

Wednesday, 1 February 2017

Venue: **Central Library Hall, Fayoum University**

- 09:00 | **Gathering in the hotel lobby & transportation to the workshop venue (Speakers)**
- 09:00 - 10:30 | **Registration**
- 10:30 - 11:00 | **Opening & Welcome Speech**  
**Prof khaled Ismail Hamza**  
(President of Fayoum University)
- 11:00 - 13:00 | **Session 1**  
**Water Resources and Desalination**  
**Dr Dr Ahemd S.G. Khalil** (Centre for Environmental and Smart Technology, Egypt & AGYA member)  
**Dr David Warsinger** (Massachusetts Institute of Technology, USA)  
**Prof Rifaat Abdelwahab** (Holding Company for Water and Wastewater, Egypt)
- 13:00 - 14:00 | **LUNCH BREAK**
- 14:00 - 16:00 | **Session 2**  
**Solar Energy**  
**Dr Frank Marlow** (May-Planck-Institute for Coal Research, Germany)  
**Dr Nils Benson** (University of Duisburg-Essen, Germany)  
**Prof Nageh Allam** (American University in Cairo, Egypt)  
**Prof Moataz Soliman** (Alexandria University, Egypt)
- 16:00 - 18:00 | **Poster Session & Coffee Break**
- 18:00 | **Transportation to hotel (Speakers)**

## INTENSIVE PRACTICAL TRAINING COURSE ON SOLAR ENERGY

Thursday, 2 February 2017

Venue: **Center for Environmental and Smart Technology, Faculty of Science, Fayoum University**

- ▶ **Lectures/Trainers:**  
Dr Tarek Khalil  
Dr Niels Benson  
Dr Ahmed Alaboushi  
Dr Rami Ghanam  
Dr Essam Mohamed  
Dr Frank Marlow
- 08:00 | **Transportation to the workshop venue (Trainers)**
- 09:00 -10:00 | **Lecture 1: Solar Radiation**
- 10:00 - 11:00 | **Lecture 2: Solar Thermal Systems**
- 10:00 - 13:00 | **Practical Session (1): Weather Station**
- 13:00 - 15:00 | **LUNCH BREAK**
- 15:00 - 18:00 | **Practical Session (2): Pyranometar & Solar PathFinder**
- 18:00 | **Transportation to hotel (Speakers)**

Friday, 3 February 2017

- ▶ **Lectures/Trainers:**  
Dr Tarek Khalil  
Dr Ahmed S. G. Khalil  
Prof Ahmed Sakhrieh (AGYA member)  
Andreas Andrianopoulos  
Dr Essam Mohamed  
Dr Jan Friesen (AGYA member)

- 08:00 | **Transportation to the workshop venue (Speakers)**

09:00 -10:00

**Lecture 3: Basics of Photovoltaics**

10:00 - 13:00

**Practical Session (3): Efficiency of Solar Cells & Modules**

13:00 - 15:00

**LUNCH BREAK**

15:00 - 18:00

**Practical Session (4): Efficiency of Solar Collectors**

Saturday, 4 February 2017

- ▶ **Lectures/Trainers:**  
Dr Tarek Khalil  
Dr Abdelghany Reda  
Dr David Warsinger  
Andreas Andrianopoulos  
Dr Essam Mohamed  
Dr Frank Marlow

08:00

**Transportation to the workshop venue (Speakers)**

09:00 - 13:00

**Practical Session (5): Efficiency of Solar Collectors**

13:00 - 15:00

**LUNCH BREAK**

15:00 - 18:00

**Practical Session (6): Polysun Software**

18:00

**Transportation to hotel (Speakers)**

Sunday, 5 February 2017

- ▶ **Lectures/Trainers:**  
Dr Rami Ghanam  
Dr David Warsinger  
Dr Ahmed S. G. Khalil  
Andreas Andrianopoulos  
Dr Essam Mohamed  
Dr Jan Friesen (AGYA member)

08:00

**Transportation to the workshop venue (Speakers)**

09:00 -10:00	<b>Lecture 5: Solar Desalination</b>
10:00 – 13:00	<b>Practical Session (7): PV-RO System</b>
13:00 – 15:00	<b>LUNCH BREAK</b>
15:00 – 18:00	<b>Practical Session (8): Solar Tracker</b>
18:00	<b>I Transportation to hotel (Speakers)</b>

Monday, 6 February 2017

09:00 – 13:00	<b>Students Oral Presentations</b>
13:00 – 15:00	<b>LUNCH BREAK</b>
15:00 – 16:00	<b>Closing session</b>

Workshop Venue:  
Fayoum University  
Center for Environmental and Smart Technology

Contact:  
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[www.agya.info](http://www.agya.info)



IN COOPERATION WITH



## Intensive Practical Training Course on Solar Energy & Workshop “Challenges and Potential Opportunities of Renewable Energy and Water Resources in Egypt”

1 to 6 February 2017

Fayoum University,  
Fayoum, Egypt



The practical training course on solar energy is a project of the AGYA Working Group *Energy, Water and Environment*