

# 1<sup>st</sup> TYAN International Thematic Workshop

## *"Fundamentals of Photoelectrochemistry: From Materials Chemistry to Energy Conversion"*

23<sup>th</sup> -27<sup>th</sup> April, 2018

Instituto Tecnológico de Chascomús (INTECH),  
Chascomús, Argentina



Within the framework of the United Nations Sustainable Development Goals (UN's SDGs) in terms of "equality education", "affordable and clean energy", "climate actions" and "partnerships for the goals", the TWAS Young Affiliate/Alumni Network (TYAN) organizes the 1<sup>st</sup> TYAN International Thematic Workshop on:

*"Fundamentals of Photoelectrochemistry: From Materials Chemistry to Energy Conversion"*

### **ORGANIZING COMMITTEE:**

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## GOALS:

This thematic workshop is focused on photoelectrochemistry combining photochemical and electrochemical concepts of advanced materials. Photoelectrochemistry plays a pivotal role in developing renewable energy conversion and storage technology. The main goals of the workshop are:

- to update the concepts and to share recent success in solar energy conversion.
- to initiate joint research projects among TYAN members from different continents and local colleagues.
- to establish a network of interactions with synergistic research relationships.
- to build capacity on renewable energy in developing countries.

## TOPICS:

- Basic electrochemistry and photochemistry (an introductory approach)
- Introduction to photoelectrochemistry
- Optical and electrical properties of the Interfaces
- Bioinspiration and key processes
- Advanced materials to energy conversion
- Renewable energy production
- Artificial photosynthesis, solar hydrogen generation, etc.

## SPEAKERS:

- **Ronald Vargas** (Venezuela, TYAN, TWAS-ROLAC, *(Photo)Electrochemistry*)
- **Franco M. Cabrerizo** (Argentina, CONICET, TYAN, TWAS-ROLAC, *Photochemistry*)
- **Mirabbos Hojamberdiev** (Uzbekistan, TYAN, TWAS-ROCASA, *Materials Chemistry*)
- **Amal Amin Ibrahim** (Egypt, TYAN, TWAS-ARO, *Nanotechnology*)
- **Nageh Allam** (Egypt, TYAN, TWAS-ARO, *Energy Conversion*)
- **Adewale Adewuyi** (Nigeria, TYAN, TWAS-ROSSA, *Nanomaterials*)
- **Mahesh Kumar** (India, Global Young Academy (GYA), *Microelectronics*)

## PARTICIPANTS:

The workshop is open to doctoral/postdoctoral students and researches from public and private sector, subject to approval by the Organizing Committee.

Interested applicants should submit a letter of motivation to [ronaldvargas@usb.ve](mailto:ronaldvargas@usb.ve).

**Deadline for applications ends on 16 March, 2018**

