



# R8 Pre-University Works

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19-21 April, 2013

region 8  
IEEE 8 

IEEE Region 8  
Pre-University Works  
(PUW)

**Pre-University Works** is a (sub-)sub-committee under EASC with the main aim of increasing the focus on Pre-University activities in R8.

# Goals

- ▶ Promoting Pre-University Activities in Region 8
- ▶ Increase the awareness of Pre-University programs to Section Leaders
- ▶ Providing support for Pre-University activities being organized or planned in the Region
- ▶ Coordinate with global Pre-university Education Coordinating Committee (PECC)

# Team

## ► Core members

- Sohaib Qamar Sheikh (UK&RI)
- Muhammad Mustufa (Jordan)
- Joyce Mwangama (South Africa)
- Riadh Besbes (Tunisia)



# 2013 Targets

- ▶ Increase awareness about EAB Pre-University programs through outreach events.
- ▶ Support the organization of TISP Middle East 2013
- ▶ Organize four relevant webinars.
- ▶ Initiate EPICS-in-IEEE projects in Europe and Middle East. Currently, we have only been able to properly penetrate Africa.
- ▶ Train volunteers to align with their local section education activities team.
- ▶ Provide support to members organizing our activities through easy-to-use guidebooks.

# Increase awareness about EAB Pre-University programs through outreach events.

- ▶ Activities from October 2012 to March 2013
  - TISP-on-tour => training workshops in Greece, Turkey, Jordan, and Portugal.
  - EPICS-in-IEEE awareness workshops in UK, Greece, Turkey, Jordan, and Portugal.
  - Supported EPICS-in-IEEE Global Virtual Conference, October 27, 2012
  - Webinar : IEEE Special Interest Group on Humanitarian Technology (SIGHT)
  - Webinar: Engineering Analysis of Effective Educational Assessment Techniques

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## ► Upcoming activities

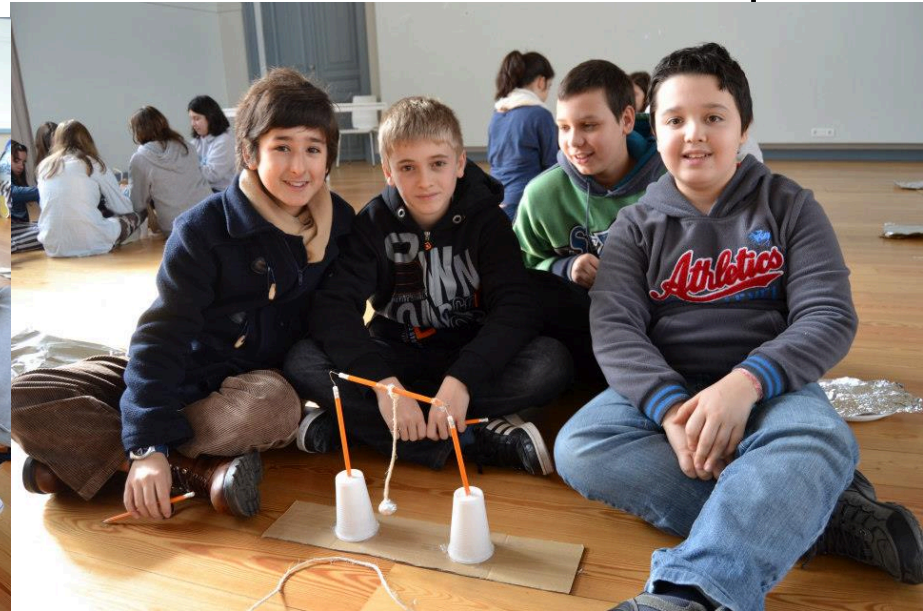
- TISP-on-tour => training workshops in Lebanon and Poland.
- Support EPICS-in-IEEE awareness workshops in Lebanon and Poland
- Three webinars (May, July and September)
- Possible support for upcoming TISP workshops in Tunisia and Nigeria



# TISP 2.0



- ▶ R8 Initiative
- ▶ TISP workshop conducted by Student and GOLD members directly with Pre-University Students.
- ▶ **Portugal:** 12 workshops in 7 schools in Lisbon, Sintra, Cascais, Aveiro, Carcavelos and Oeiras since 2011. 2563 student have participated in these section-funded workshops



# TISP 2.0

- ▶ **Greece:** 43 school students participated in a workshop in Lamia, Greece.
- ▶ **UK&RI:** 50 school students from 5 schools participated in a workshop in Slough, UK.



# Support the organization of TISP Middle East 2013

- ▶ **Location:** Dubai, UAE.
- ▶ **Possible dates:** 7 & 8, 14 & 15, or 21 & 22 Sept. 2013.
- ▶ **Participation:** 10-12 volunteers each from UAE, Bahrain, Egypt, Jordan, Lebanon, Pakistan, Palestine, and Tunisia.
- ▶ **Current Progress:** IEEE staff in contact with UAE section to find possible venues.
- ▶ **Next meeting:** Last week of March, postponed due to unknown reasons. Discussion on lesson plans and speakers

# Initiate EPICS-in-IEEE projects in Europe and Middle East.

- ▶ Penetration in Europe and Middle-East is a problem area.
- ▶ Recent awareness programs have resulted in Puw members reviewing applications from Ukraine, Portugal, Jordan, and Egypt.

# of Projects	
Argentina	3
Belgium	1
India	15
Kenya	1
Mexico	1
Namibia	1
Nigeria	1
South Africa	6
Tunisia	1
Uganda	2
United States	5
Uruguay	2
Zambia	2
Zimbabwe	1
Total	42



# Train volunteers to align with their local section education activities team.

- ▶ Initiated PUW Adhoc Committee with the aim of stimulating EAB aligned activities in local and neighbouring sections.

Name	Section
Abdelrahman	Jordan
Adeyemi Abel Ajibesin	Nigeria
Ahmed Gamal	Egypt
Anastasiia Stotckaia	Russia (Northwest)
Efthymia Aravaniti	Greece
Lwanga Herbert	Uganda
Rui Costa	Portugal
Sinan Sabih	Qatar

# Provide support to members organizing our activities through easy-to-use guidebooks.

- ▶ 'Cookbooks' being prepared to give members step-by-step guide to organize a TISP workshop or initiate an EPICS-in-IEEE project.
- ▶ TISP booklet is in review.
- ▶ EPICS-in-IEEE booklet is being finalized.
- ▶ Expected launch date is 1<sup>st</sup> June, 2013.

# Awareness

- Facebook page: >600 likes
- Website: Hosted on IEEE R8 website.

## Pre-University Works

### Pre-University Works

> News

> Programs

> Resources

> File Repository

> > Webinars Records

> > Presentations

> > Reports

- **Webinar: Engineering Projects In Community Service (EPICS-in-IEEE);** EPICS-in-IEEE Global team

May 03, 2012

Session Agenda: [Agenda](#)

Slide deck: [Slides](#)

Webinar Recording: [Recording](#)

- **Webinar: Teacher In-Service Program;** Yvonne Pelham, Jennifer Ng, Riadh Besbes

April 12, 2012

Session Agenda: [Agenda](#)

Slide deck: [Slides](#)

Webinar Recording: [Recording](#)

- **Webinar: IEEE Pre-University Education programs;** Liz Burd and Yvonne Pelham

March 01, 2012

Session Agenda: [Agenda](#)

Slide deck: [Slides](#)

Webinar Recording: [Recording](#)



# Awareness Impact on Sections

## Sections promoting their Pre-Uni activities

- ▶ Excerpts from Sections reports for April 2013.
  - **Austria** - Co-sponsoring and co-organization (as jury members) of “Invent a Chip/AT 2012”, which is a competition to motivate schools in Austria to invent and design their own integrated circuits
  - **Nigeria** - EPICs Project - involving secondary school students, university undergraduates and an NGO
    - Future events: TISP workshop, STEP program in selected schools.
  - **Kenya**: Empowering the visually impaired IEEE Kenya commenced an EPICS project in which it is working with Automated Research Systems and the Kenya Society for the Blind to provide access for visually impaired persons to educational content on mobile devices.
  - **Zambia**: EPICS IN ZAMBIA.

The Zambia Section has been undertaking EPICS project under the sponsorship of IEEE EAB. Two public universities are involved in these projects namely....



# PUW Support to Sections

- ▶ **UK&RI section** has recently submitted an IEEE foundation grant application in collaboration with King's College London for a program called Cosmic Rays in UK Schools (CORUS) which aims to install cosmic ray detectors in schools around the country to promote the interest of students in scientific research.
- ▶ **Sweden section GOLD/WIE/SAC Committee** has approved and started work towards a pre-university program and is contacting schools to explore options.

# Other Pre-University activities in R8

- ▶ Students at the **GJU Student Branch** in Jordan have started a project called Labs-on-Wheels to provide under-privileged schools in different provinces in Jordan with portable lab equipped with proper equipment.
- ▶ Students at **Alex Student Branch** in Egypt are organizing a series of workshops for pre-university students to introduce them to the fields of robotics, home automation, and programming through educational games.



# Other Pre-University activities in R8

- ▶ Students at **KU Leuven Branch** in Belgium organized a workshop for school children on creating a smart energy house.



# Thank you!

- ▶ Email: [r8puw@ieee.org](mailto:r8puw@ieee.org)
- ▶ Website:  
<http://www.ieeer8.org/category/technical-activities/educational-activities/pre-university-works/>
- ▶ Facebook:  
<https://www.facebook.com/IEEER8PreUniversity>