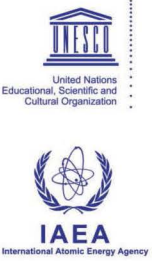




The Abdus Salam
**International Centre
for Theoretical Physics**
50th Anniversary 1964–2014



School on Open Spectrum and Applications of White Spaces Technologies

3 - 14 March 2014
Miramare, Trieste, Italy

The Telecommunications/ICT for Development Laboratory (T/ICT4D) of the Abdus Salam International Centre for Theoretical Physics (ICTP, Trieste, Italy), in collaboration with the International Telecommunication Union - Telecommunication Development Sector (ITU/BDT), the Network Startup Resource Center (NSRC) and the National Institute of Telecommunications (NIT, Poland), is organising a **School on Open Spectrum and Applications of White Spaces Technologies** to be held in Trieste from 3 to 14 March 2014.

Local Organizer: **M. Zennaro** (ICTP, Italy)

In the last couple of years a new opportunity for spectrum use has emerged in the form of TV White Spaces (TVWS). Originally conceived as a technology that could take advantage of the guard bands or "white spaces" that were left between television channels to prevent interference, TVWS has the potential to address research challenges of remote academic institutions, as well as opening up alternatives for building community wireless networks. Traditional spectrum allocation methods are unlikely to be able to cope with the exponential growth in demand for broadband access in emerging markets. There is a pressing need to examine alternative models of spectrum allocation. Dynamic spectrum sharing based on software and cognitive radio can play a significant role in tomorrow's telecommunication systems. With the final goal of connecting Research and Education Centres to the Internet with low cost means to improve Internet access, the School will examine the state of the art in Open Spectrum and TVWS technologies and emerging regulations. The school will address the latest information from TVWS pilots around the world and will include hands-on sessions.

The following key topics will be discussed:

- Radio Physics
- Software Defined Radio
- Cognitive Radio
- Open Spectrum Access
- TV White Spaces Technologies

Case studies from TV White deployments will be presented.

PARTICIPATION:

The School is expected to attract young scientists, engineers and scholars from countries which are members of the United Nations, UNESCO or IAEA may attend the School. The School will be conducted in English. Although the main purpose of the Centre is to help research workers from developing countries, through a programme of training activities within a framework of international cooperation, a limited number of graduate students and post-doctoral scientists from developed countries are also welcome to attend.

As a rule, travel and subsistence expenses of the participants should be borne by the home institution. Every effort should be made by candidates to secure support for their fare (or at least half-fare). However, limited funds are available for some participants to be selected by the Organizers, who are nationals of, and working in, a developing country, and who are not more than 45 years old. Such support is available only for those who attend the entire activity. **There is no registration fee.**

HOW TO APPLY FOR PARTICIPATION

The application form can be accessed at the activity website
<http://agenda.ictp.it/smr.php?2573>

Once in the website, comprehensive instructions will guide you step-by-step, on how to fill out and submit the application form.

Deadline for requesting participation: **1st December 2013**

ACTIVITY SECRETARIAT:

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Marco Zennaro
ICTP, Italy

DEADLINE

for requesting participation

1st December 2013