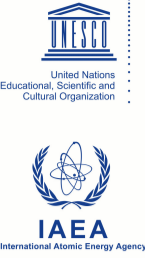




The Abdus Salam  
**International Centre  
for Theoretical Physics**  
www.ictp.it



## **Workshop on Use of Ionospheric GNSS Satellite Derived Total Electron Content Data for Navigation, Ionospheric and Space Weather Research**

**20 - 24 June 2016**

**(Miramare - Trieste, Italy)**

The Abdus Salam International Centre for Theoretical Physics in co-operation with Boston College (BC) is organizing a Workshop on the "Use of Ionospheric GNSS Satellite Derived Total Electron Content Data for Navigation, Ionospheric and Space Weather Research" to be held at ICTP, Trieste, Italy from 20 to 24 June 2016, prior to the International Beacon Satellite Symposium 2016, 27 June - 1 July 2016. Additional support is provided by the International Committee on GNSS (ICG).

### Workshop Purpose

Dual frequency signals transmitted by GNSS satellites to allow accurate positioning offers an excellent means to monitor and study ionospheric Total Electron Content (TEC) and ionospheric irregularities. These ionospheric characteristics are of great importance for satellite navigation but also for ionospheric and space weather monitoring and research. For this reason they have been called "satellites of opportunity" for ionospheric related investigation. By now hundreds of GNSS receivers around the globe are able to obtain information about ionospheric conditions at all times. This information complements and integrates substantially the amount of ionospheric data available from other sources. However, to obtain the maximum benefit from GNSS derived TEC it is necessary to calibrate these data removing biases always present. Different techniques have been developed for this purpose.

The workshop is intended to introduce the participants to the use of GNSS derived TEC in satellite navigation and ionospheric and space weather research. The main part of the workshop will be devoted to provide theoretical information about some of the TEC calibration techniques and to actually practice them in the computer laboratory in order to assure their appropriate utilisation.

### Participation

Applicants should be graduate students or junior scientists, preferably, from developing countries and intending to work on the use of TEC data for Navigation and Ionospheric or Space Weather research.

**A limited number of grants are available to support the travel and living expenses of selected participants, with priority given to participants working in a developing country and who are at the early stages of their career**

### HOW TO APPLY FOR PARTICIPATION

The Online Application can be accessed at: <http://indico.ictp.it/event/7600/>

**Comprehensive instructions will guide you step-by-step on how to fill out and submit the application form.**

#### **Secretariat:**

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### **Co-Sponsors**



***Boston College***



***ICG***

### **Organizers**

***P. Doherty  
(Boston College, USA)***

***S. Radicella  
(ICTP, Italy)***

***B. Nava  
(ICTP, Italy)***

### **ICTP Local Organizer**

***B. Nava***

**DEADLINE**  
to request participation

**15 March 2016**

