

International Reference Ionosphere (IRI) 2015 Workshop

Improved Accuracy in the Equatorial Region and Progress Towards a Real-time IRI Model

A COSPAR Capacity-Building Workshop

November 2-13, 2015

King Mongkut's Institute of Technology Ladkrabang (KMITL), Bangkok, Thailand

Website: www.kmitl.ac.th/iri2015.htm (available in 2015)



Organizing Committee

Honorary Chairs

- ❖ KMITL President

Advisory Board

- ❖ Vice President (Research Affairs), KMITL
- ❖ Vice President (Chumphon campus), KMITL
- ❖ Komsan Maleesri, KMITL (Thailand)
- ❖ Peerawat Suwanjan, KMITL (Thailand)
- ❖ Dieter Bilitza, GMU, NASA (USA)
- ❖ Ivan Galkin, UML (USA)
- ❖ Bodo Reinisch, UML (USA)
- ❖ David Altadill, OE (Spain)
- ❖ Takashi Maruyama, NICT (Japan)
- ❖ Vladimir Truhlik, UFA (Czech Republic)
- ❖ Lee-Anne McKinnell, SANSO (South Africa)
- ❖ Shigeto Watanabe, Hokkaido University

General Co-Chairs

- ❖ Chuwong Pongcharoenpanich, KMITL (Thailand)
- ❖ Chalermchon Satirapod, Chulalongkorn University (Thailand)
- ❖ Pornchai Supnithi, KMITL (Thailand)

International Technical Committee

- ❖ Mardina Abdullah, UKM (Malaysia)
- ❖ D. Buresova, ASCR (Czech Republic)
- ❖ Nithiwatthn Choosakul, RUTT (Thailand)
- ❖ Ha Duyen Chau, HIG (Vietnam)
- ❖ Tamara Gulyaeva, IZMIRAN (Russia)
- ❖ John Habarulema, SANSO (South Africa)
- ❖ Mamoru Ishii, NICT (Japan)
- ❖ Prasert Kenpankho, KMITL (Thailand)
- ❖ Tharadol Komolmis, Chiangmai University (Thailand)
- ❖ Andrzej Krankowski, UWM (Poland)
- ❖ Tiger Liu, NSPO (Taiwan)
- ❖ Guanyi Ma, NAO, CAS (China)
- ❖ Marta Mosert, CONICET, Argentina
- ❖ Tajul Musa, UTM (Malaysia)
- ❖ R.E.S. Otadoy, University of San Carlos (The Philippines)
- ❖ Yuichi Otsuka, Nagoya University (Japan)
- ❖ Michael Pezzopane, INGV (Italy)
- ❖ Sandro Radicella, ICTP (Italy)
- ❖ David Ruffolo, Mahidol University (Thailand)
- ❖ Susumu Saito, ENRI (Japan)
- ❖ Takuya Tsugawa, NICT (Japan)
- ❖ Guojun Wang, NSSC (China)
- ❖ Mamoru Yamamoto, Kyoto University (Japan)
- ❖ Shunrong Zhang, MIT (USA)
- ❖ India
- ❖ Indonesia

Finance Chairs

- ❖ Somkiat Lerkvaranyu, KMITL
- ❖ Thanasuang Paiboonsuksakul, KMITL

Publication Chairs

- ❖ Surachai Pimsalee, KMITL
- ❖ Sunti Tuntrakool, KMITL

Secretariats

- ❖ Tharinee Lamyong, KMITL
- ❖ Punyawe Jarnjareegulgarn
- ❖ Noraset Wichaiparnich, RMUT

Local Arrangements

- ❖ Pitchaya Supanakoon, KMITL
- ❖ Sanit Taewchim, KMITL
- ❖ Narongsak Manomaipiboon, KMITL

IRI 2015 workshop aims to provide a venue to bring together a wide audience of academics and researchers from around the world to meet and discuss the latest ideas and present research results related to Space, ionospheric modeling, and IRI improvements and extensions. Special emphasis will be on improvements of IRI in the equatorial region and on the progress towards a Real-Time IRI. It is also our intention to enhance the research collaboration worldwide.

Topics include:

- ❖ Ionospheric observation
- ❖ Ionosphere-Troposphere Coupling
- ❖ Topside and bottomside profiles
- ❖ Global representation of peak parameters
- ❖ Representation of ion composition
- ❖ Representation of plasma temperatures
- ❖ IRI and GNSS
- ❖ Real-time IRI
- ❖ IRI Applications
- ❖ New Inputs for IRI
- ❖ Space Weather Education
- ❖ Effects of Ionosphere on GNSS (aeronautical, satellite, etc.)
- ❖ Space Weather applications (disasters, satellite, communications)

Journal Publication

The authors of accepted abstract at the IRI 2015 Workshop are encouraged to submit the full paper to the special issue of Journal "Advances in Space Research"

COSPAR Capacity-Building Workshop

The 2-week workshop is supported under the COSPAR Capacity Building program.

The intent is to teach graduate students and young researchers the basics of ionospheric monitoring and modelling and familiarize the attendants with the most important online databases of ionospheric ground and space data such as LEO satellites, GNSS and web interfaces to ionospheric models. The course includes lectures covering issues related to the equipment and data analysis used to monitor the ionosphere from the ground and from space and the representation of ionospheric parameters in models like the International Reference Ionosphere (IRI). Lectures will be supplemented by hands-on tutorials and teams of 3-4 students will work on specific modeling problems. The teams will report their activities and present their results in a dedicated session at the end of the workshop. The second week will be organized as a regular IRI Workshop with scientists presenting their newest research related to improvements and additions to the IRI model and ionospheric modeling in general. This will provide the students with an opportunity to get to know the leading experts in the field and learn what are today the most pressing needs and goals in ionospheric model development. Funding will be provided for travel, housing, and meals for a limited number of students. Please check the workshop website in early 2015 for more information on the application process.

Important Dates:

- | | |
|--|---------------|
| Abstract submission deadline for IRI Workshop: | 15 July, 2015 |
| Registration deadline for IRI Workshop: | 30 Aug, 2015 |
| Application deadline for students: | 15 May, 2015 |

Travel and Accommodation:

The campus of KMITL is easily accessible by trains and highways. It is 6 km away from the major Suvarnabhumi International Airport and 25 km from the center of Bangkok. Around KMITL, plenty of reasonably-priced accommodation choices are available, some are within a walking distance. Local train stops on campus and fast city train station is nearby.

