

Announcement of a Special Issue of *Advances in Space Research* on

## **International Reference Ionosphere (IRI) over the African Region**

Papers are invited for a special topical issue of *Advances in Space Research (ASR)* "International Reference Ionosphere (IRI) over the African Region".

This special issue is open to all scientists who may have an appropriate scientific paper related to the representation of the ionosphere in the International Reference Ionosphere (IRI) over the African region. All contributions related to the improvements of the IRI models as well as its applications and comparisons between observed data and modelled IRI data are welcome. The IRI is an observation-based standard model of the ionosphere that is widely used to mitigate the significant effects the ionosphere has on the performance of communication and global positioning systems. Improvement of the IRI representation of ionospheric parameters such as electron density, electron temperature, ion composition and ion temperatures, spread F, and total electron content is the focus of this special issue. IRI is the internationally recommended empirical model for the ionosphere. It is the result of a joint project of the Committee on Space Research (COSPAR) and the International Union of Radio Science (URSI). Delegates who attended the IRI 2011 meeting in Hermanus are encouraged to submit.

Papers must be submitted electronically to <http://ees.elsevier.com/asr>. To ensure that all manuscripts are correctly identified for inclusion into the special issue, **authors must select "Special Issue: IRI over Africa"** when they reach the "Article Type" step in the submission process.

Submitted papers must be written in English and should include full affiliation addresses for all authors. Only full-length papers will be considered for publication, subject to peer review by two reviewers. There are no page limits although the length of the paper should be appropriate for the material being presented. While the **deadline for submissions is 30 April 2012**, papers will be published electronically as soon as they are accepted. The printed issue will be assembled within a reasonable time with late papers being printed in regular issues of ASR. Contributors to this issue will have an opportunity to purchase individual issues once the issue is finalized. All articles will be typeset at no cost to the author; there is a nominal charge for printing color figures although there is no charge for color figures on the electronic version.

Prof. Lee-Anne McKinnell (lmckinnell@sansa.org.za) and Dr. John Bosco Habarulema (jhabarulema@sansa.org.za) are the Guest Editors for this special issue. Questions can be directed to Prof. McKinnell, Dr. Habarulema, or to the ASR Co-Editor for Special Issues, Dr. Peggy Ann Shea (sssrc@msn.com).

The general format for submission of papers can be found on the ASR Elsevier web site at [http://www.elsevier.com/wps/find/journaldescription.cws\\_home/644/authorinstructions](http://www.elsevier.com/wps/find/journaldescription.cws_home/644/authorinstructions).