<h5> 1st International Symposium on :</h4>"Observing The Earth: from Nano-satellites to Copernicus"

Tuesday 4 November 2014 - Tuesday 4 November 2014

ESA-ESTEC

Scientific Programme

The first international symposium on Observing the Earth will be held in ESTEC, Noordwijk, NL on 4 November, 2014.

The colloquium will address two major areas of research and development:

-The design and development of Earth Observation (EO) satellites and their specific payloads.

-The development and validation of retrieval algorithms allowing to extract geophysical quantities from raw observations

Objectives of The Symposium:
This symposium intends to bring together members of the engineering community involved in the design of state-of-the art remote sensing missions and of the scientific community involved in designing and validating retrieval algorithms.
Current developments in Europe, such as the deployment of the Copernicus system will be addressed.

The symposium will be organized <u>as a series of plenary talks followed by a poster session</u>.

The conference is jointly organised by ESA and by the IEEE Benelux Chapter on Aerospace and Electronic Systems / Geoscience and Remote Sensing (AES/GRS) Societies
Companies and organisations interested in becoming Sponsors of this symposium are asked to contact:
<u>Dr. Mark Bentum <m.j.bentum@utwente.nl></u>

Scientific Topics:
Papers are solicited for inclusion in the colloquium programme. <u>Both, extended abstracts (2 pages) as well as full papers (up to 5 pages) can be accepted.</u>
<u>Full papers will be submitted to IEEE Xplore</u>, subject to acceptance by the review committee and to agreement of the author.

The following list of topics can be used as a guideline (please use the code relating to the topic of your paper when submitting your abstract):

Spacecraft Technology:
T01 SAR/Altimeter/ Scatterometer

T02 Radiometers and Sounders

T03 Hyperspectral /Multispectral Imagers

T04 Specialised GNSS Payloads (Occultation and GNSS-R)

T05 Onboard Digital Signal Processing for Space Payloads

T06 Onboard Antennas for Space Missions

<font

color="black">Retrieval Algorithms:
R01 Forward and Inverse Models

R02 Model Validation

R03 Special Applications