



2015 African Geophysical Society Conference 1st – 5th June 2015, NAIROBI, Kenya

www.afgps.org

Final Announcement & Call for Participation

The African Geophysical Society AGS is accepting application for her Second Annual Conference holding at the Kenya Institute of Curriculum Development, Nairobi, Kenya. This is the ***Final Announcement & Call for Participation***.

Background

The African Geophysical Society AGS is a dynamic, innovative, and interdisciplinary scientific association committed to the pursuit of understanding of Earth and Space for the benefit of mankind. It was formally established on Thursday 15th November 2012 during the first Chapman Conference on Space Weather in Africa, organized by the American Geophysical Union AGU at Addis Ababa, Ethiopia, between 12th and 16th November 2012. The venue of the maiden Chapman conference on Space weather was the Conference Center of the United Nations Economic Commission for Africa (ECA), Addis Ababa, Ethiopia.

The fundamental objectives of AGS are to: (i) Promote the study of the Earth, other planets and Space; and their environments in Africa, (ii) Promote cooperation between scientists and among scientific organizations involved in geophysics and related disciplines, (iii) Initiate and participate in research programs in Earth sciences, space science and related disciplines, (iv) Advance the various relevant disciplines through scientific discussion, publication, and dissemination of information and (v) Encourage programmes and research in geophysics, space science and other related disciplines that will advance economy development and sustainable growth in the African region.

AGS has many sections which reflect the fields of relevance to the Society, viz: Solid Earth Science (geology, geodesy, geophysics, geochemistry, biogeosciences; Atmospheric Science (Small scale and local wind systems, air pollution, mesoscale processes, global wind systems, cyclones, weather forecasting, atmospheric chemistry, global climate and its change, meteorology) ; Ocean Science (Estuarine and costal oceanography, ocean circulation, marine biogeochemistry, paleoceanography, marine geology, and atmosphere-ocean coupling; Astronomy and Planetary Science (interior, surface, magnetosphere, ionosphere, and upper atmosphere of solar system bodies other than earth, cosmology);

Solar and Terrestrial (sun, interplanetary medium, heliosphere, the magnetosphere, ionosphere, and upper atmosphere of planet earth, space weather) Hydrological Science (Hydrometeorology, Surface Water Hydrology, Ground Water Hydrology, Water Resources Planning and Management, Hydro-informatics).

AGS is at present forging strong partnership with other regional and academic societies of equivalent objectives viz: American Geophysical Union AGU, Asia-Oceania Geosciences Society AOGS, European Geosciences Union EGU, IUGG, Royal Astronomical Society, URSI, WMO, Japan Geosciences Union JpGU, etc. In October 2014, a memorandum of understanding was signed with the American Geophysical Union AGU.

The first AGS annual conference took place in Abuja, Nigeria between 2nd and 6th June 2014. It was a successful conference with overwhelmed subscription from which only One hundred and twenty one applicants were invited. The participants spread over 11 African Countries, UK, Japan, and India. Ninety Seven papers were accepted and classified as 43 orals, 46 posters and 8 plenary papers. [This second conference promises to be better](#). As at now, 81 applications have been received from different African countries and other continents.

[Conference Programme](#)

The Conference Programme will consist of a series of Sessions with technical presentations, plenary presentation, panel discussions and working group meetings. The programme may also include a field trip and a social events programme for all Conference participants.

[Technical Sessions](#)

The following scientific sessions have been scheduled by the appropriate conveners:

- (i). Solid Earth Science (geology, geodesy, geophysics, geochemistry, biogeosciences);
Convener: Anifowoshe, A. O. B.
- (ii). Atmospheric Science (Small scale and local wind systems, air pollution, mesoscale processes, global wind systems, cyclones, weather forecasting, atmospheric chemistry, global climate and its change, meteorology)
- (iii). Ocean Science (Estuarine and costal oceanography, ocean circulation, marine biogeochemistry, paleoceanography, marine geology, and atmosphere-ocean coupling);
- (iv). Astronomy and Planetary Science (interior, surface, magnetosphere, ionosphere, and upper atmosphere of solar system bodies other than earth, cosmology);
- (v). Solar and Terrestrial Science (sun, interplanetary medium, heliosphere, the magnetosphere, ionosphere, and upper atmosphere of planet earth, space weather): Convener - A. B. Rabi; T. Emad
 - a. Equatorial ionospheric dynamics
 - b. Space weather
 - c. VarSITI: SCOSTEP new scientific activity
- (vi). Hydrological Science (Hydrometeorology, Surface Water Hydrology, Ground Water Hydrology, Water Resources Planning and Management, Hydro-informatics)

- (vii). Space weather effects on GNSS application at equatorial latitudes (The equatorial ionosphere is known to have a very dynamic behavior in terms of variability. It has the largest effect in terms of errors on GNSS systems. We need to more understand its behavior to improve model results in the African sector of longitude. How a magnetic event taking place at the sun level affects a GNSS system on Earth. What are the implications for technology systems on which our lives rely? The physical processes based on the solar, the interplanetary medium and the ionospheric parameters should clearly appear in the works to be presented. We are welcoming also, presentations that report GNSS applications implemented at country or regional level. How the population can benefit from the implementation of such application. How it impacts the development of that area? Since IHY - 2007 program launch under the umbrella of UNOOSA in 2005 in Dubai, a considerable progress has been made to spread space science equipment on the African continent. The scientists are encouraged to present their recent works using data collected on the continent. - Conveners: Obrou, O. K.; Bolaji, O. S.
- (viii). Earth & Space Science Informatics ESSI (Description: Earth system and space science applications on current and emerging high performance computing architectures, Community-driven challenges and solutions dealing with Informatics, New approaches to digital environmental models, Citizen-empowered science and crowdsourcing in the geosciences, Multi-disciplinary challenges and solutions across the Earth and Space Sciences, Innovative Evaluation and Prediction for Large Earth Science Datasets, Earth science on Cloud, HPC and Grid; International cross-project collaboration and interoperability of data management systems, Metadata, Data Models, and Semantics, Open Access to Research Data and Public Sector Information: perspective, drivers, and barriers, Free and Open Source Software (FOSS) for Geoinformatics and Geosciences, Platforms, Sensors and Applications with Unmanned Aerial Systems in the geosciences, High Resolution Topography in the Geosciences: methods and applications, Visualization for scientific discovery and communication, Techniques and tools for effective visualization and sonification in the geosciences, State of the Art in Earth Science Data Visualization, Communication of uncertain information in earth sciences: data, models and visualization). Convener: Gbobaniyi, E. O.
- (ix). Science and Applications of SBAS/EGNOS in Africa (Description: Satellite-Based Augmentation System (SBAS) is a regional system designed to improve Global Navigation Satellite System (GNSS) in terms of accuracy, integrity, availability and continuity. EGNOS (European Geostationary Navigation Overlay Service) is the European SBAS system that augments the US GPS satellite navigation system and makes it suitable for safety critical applications such as flying aircraft or navigating ships through narrow channels. Researches have shown that, among other factors, atmosphere is a major source of error to SBAS system due to its dynamism. Therefore, the science of the atmosphere is one of key factors to consider in order to have successful operation of the SBAS/EGNOS system most especially in a complex atmospheric region like equatorial region in which more than 70% of Africa continent falls. Contributions are welcome from participants to this session). Convener: S. M. Radicella and E. O. Abe

Application Form

Online application to participate in the Workshop will be accepted until 1st May 2015.
Visit: www.afgps.org/conference

Conference Fees

Members, Scientists, professionals: 70 US dollars

Students: 50 US dollars

Payable on arrival at the conference in Nairobi or through our webpage at www.afgps.org

Hotel rates, Transport from Airport and Other Logistics

Hotel rates in Nairobi ranges between 60 and 200 US dollars per night.

The LOC has arranged a block reservation of about 280 US dollars for the four nights of meeting including meals at the rate of 70 US dollars Full Board per night. You can also make the payment through our webpage. You are expected to inform the local organizing committee to make reservations for you. Those intending to pick a taxi from the airport are advised that the average fare from the airport to town is about Ksh 3000 or just about US\$ 40. For enquiry regarding the Hotel reservation and directions from airport to the AGS conference venue, please contact the local organizing committee i.e Mr. Ochieng Adero : aderoconstant@gmail.com ; Cell-phone:+254-726117704. The weather in June is normally chilly with temperatures ranging from 12^o - 20^o C and participants are therefore advised to bring along some warm clothings. There are a number of countries whose citizens do not need visa to enter Kenya , one is advised to check this out before travelling to Kenya.

Deadlines:

Application for participation: 1st May 2015

Program Committee

Prof. Olivier Obrou, University of Cocody, Cote d'Ivoire – Chair Program Committee

Prof. Babatunde, Rabi, Centre for Atmospheric Sciences, National Space Research and Development Agency, Nigeria

Prof. Paul Baki, Technical University of Kenya

Prof. Florence D'Ujanga, Makerere University, Uganda

Dr. Elijah O. Falayi, Tai Solarin University of Education, Nigeria

Ms Aderonke Israel-Obafaye – AGS Int'l Secretariat

Local Organizing Committee

Prof. Paul Baki, Technical University of Kenya – Chair LOC

Dr. J.H. Ndeda, Jomo Kenyatta University of Agriculture & Technology

Mr. Awuor Ochieng Adero, Technical University of Kenya

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African Geophysical Society President: Babatunde Rabi Email: tunderabiu@afgps.org

Co-sponsors



Centre for Atmospheric Research, National Space Research and Development Agency,
Anyigba, Nigeria

<http://www.carnasrda.com/>



Scientific Committee on Solar Terrestrial Physics SCOSTEP

<http://www.yorku.ca/scostep/>



Variability of the Sun and Its Terrestrial Impact VarSITI

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This pdf was received
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