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\* I S W I = International Space Weather Initiative \*  
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Attachment(s):

- (1) "BSS\_IHY\_ISWI letter for RoK2009", 36 KB pdf, 2 pages.
- (2) "1-Announcement\_Call African IHY", 117 KB pdf, 2 pages.
- (3) "2-Outline for activities, African IHY WS", 72.4 KB pdf, 1 page.
- (4) "3-ApplicationForm for African IHY", 88 KB pdf, 2 pages.
- (5) "4-Write up on CBSS", 15 KB pdf, 2 pages.

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Dear ISWI Participant:

There are five files attached to this issue of the ISWI Newsletter.

The first file is a letter written by Dr Hans Haubold of the United Nations Office for Outer Space Affairs. It thanks our colleagues in Korea for convening a superb IHY workshop last year in Korea.

The remaining files are associated with "Workshop on African Participation in IHY and ISWI", or WAPII for short. It is being organized by:

- Centre for Basic Space Science, CBSS
  - National Space Research and Development Agency, NASRDA
  - University of Nigeria, Nsukka
- (Note: All are based in Nigeria.)

Cordially yours,  
George Maeda  
The Editor

UNITED NATIONS OFFICE AT VIENNA



OFFICE DES NATIONS UNIES A VIENNE

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7 September 2010

Dear Professors Han and Park,

**United Nations Workshops on  
Basic Space Science (BSS, 1991-2004)  
International Heliophysical Year 2007 (IHY 2007, 2005-2009) and  
International Space Weather Initiative (ISWI, 2010-2012)**

United Nations General Assembly resolutions noted with satisfaction the contributions made by the Scientific and Technical Subcommittee of the Committee on the Peaceful Uses of Outer Space (UNCOPUOS) and the efforts of Member States and the Office for Outer Space Affairs to promote and support activities organized within the framework of IHY 2007 and its continuation as ISWI. The IHY 2007 and ISWI are part of the United Nations Basic Space Science Initiative (UNBSSI) that started in 1991, particularly for the benefit of developing nations, with the first annual workshop on basic space science approved by the UN General Assembly as part of the activities of the United Nations Programme on Space Applications for 1991.

This letter of appreciation is to recall the outstanding organization of the 2009 UN BSS & IHY Workshop, hosted by the Korea Astronomy and Space Science Institute (KASI), on behalf of the Government of the Republic of Korea, from 21 to 25 September 2009 at Daejeon, Republic of Korea. This Workshop was the 17<sup>th</sup> workshop in the UNBSSI and reviewed all achievements of this initiative over the period of time from 1991 to 2009. The workshop concluded the observation of the International Heliophysical Year 2007 and made contributions to the International Year of Astronomy 2009 (IYA 2009).

Still available on the World-Wide-Web, an unprecedented series of events and documents developed by KASI for this Workshop will stand as a testament for international cooperation in the spirit of the United Nations for years to come:

Workshop Website: <http://bssihy.kasi.re.kr/>

Workshop Newsletter: [http://bssihy.kasi.re.kr/unbssw\\_newsletter.aspx](http://bssihy.kasi.re.kr/unbssw_newsletter.aspx)

Workshop Brochure and Poster: [http://bssihy.kasi.re.kr/unbssw1\\_5.aspx](http://bssihy.kasi.re.kr/unbssw1_5.aspx)

Workshop Programme: <http://bssihy.kasi.re.kr/unbssw202.aspx>

I am taking this opportunity to recall the success of this Workshop and to thank all colleagues from KASI, on behalf of the United Nations Office for Outer Space Affairs, for organizing this unique activity under the umbrella of the United Nations.

Very sincerely yours,



Hans J. Haubold  
United Nations Programme on Space Applications

Professor Wonyong Han  
Professor Young-deuk Park  
Co-Chairs of the 2009 UN BSS & IHY Workshop  
Department Managers of KASI  
Korea Astronomy and Space Science Institute  
Daejeon 305-348  
Republic of Korea



## **Workshop on African Participation in IHY and ISWI WAPII**

**Organised by**

**Centre for Basic Space Science CBSS  
National Space Research and Development Agency (NASRDA),  
University of Nigeria, Nsukka, Nigeria.**

**Date:** 3 – 6 October, 2010  
**Venue:** Reiz Continental Hotel, ABUJA.

### **Preamble**

The Centre for Basic Space Science (CBSS) of Nigeria's National Space Research and Development Agency (NASRDA) is hosting a special conference meant for African scientists and researchers to get together to present results from the International Heliophysical Year IHY programme which was held between 2005 and 2009. A collection of instrument arrays were deployed to various countries in Africa during the just concluded IHY programme. These arrays include GPS, Magnetometers (MAGDAS and others), AWESOME, SID monitors and Automatic Weather Stations, Microwave equipments etc. Various experiments have been carried out in the past 5 years over Africa. A United Nations meeting on presentation of IHY results is being planned to take place 6-10 November 2010 in Egypt. The central objective of this conference is to prepare the African scientists for this gathering and create a forum whereby scientists/researchers can present results of their various efforts using the distributed array of instruments.

The workshop will also afford various working groups identified with specific facilities opportunity to hold national/international meetings.

### **Invitation**

The organizer hereby invites researcher/scientist to apply for participation. Applicants with interest in presenting papers and posters should complete the application form and submit their abstracts before 15 September 2010. Intending applicants are expected to prepare their manuscripts for submission at the workshop venue. Applicants who can send in full papers before the deadline have a better chance of being selected for the meeting.

**Only intending participants with accepted abstracts shall be invited to the meeting.**

A special edition of Nigerian Journal of Space Research has been dedicated to this workshop. The articles submitted to this workshop shall be peer reviewed and published soon.

## **Areas of Research**

- ✓ Contributions are expected from the following areas of research:
- ✓ Ionospheric studies using GPS, ionosonde and MAGDAS data
- ✓ Sudden Ionospheric Disturbances SID
- ✓ Geomagnetism
- ✓ Climatic variability
- ✓ Microwave propagation
- ✓ Aerosol/pollution
- ✓ Near Earth Objects

## **Features**

This meeting shall feature:

- ✓ Presentation of results from IHY experiments in Technical sessions
- ✓ Poster sessions
- ✓ Meetings of working groups

**Technical sessions:** These are the sessions in which oral presentations of papers whose abstracts have been accepted shall be made. All presentations are as slideshows.

**Poster sessions:** Provision shall be made for posters. Some of the abstracts shall be accepted as posters.

## **Deadlines:**

- 15th September 2010: Application for participation
- 20th September 2010: Notification of invitation to participants.
- 3rd October 2010 Submission of complete manuscripts

## **Convener:**

Prof. Pius N. Okeke, Director, Centre for Basic Space Science, National Space Research and Development Agency (NASRDA), University of Nigeria, Nsukka, Nigeria.

## **Local Organizing Committee:**

Babatunde Rabiun (Chair) - Email: tunderabiun@yahoo.com; Tel : 08030705787  
Bonaventure Okere - Email: ibokere2001@yahoo.com; Tel : 08064662538  
Benjamin Ayantunji - - Email: bestbrain\_engr@yahoo.com; Tel : 08034267471

## **Secretariat Address:**

### **Workshop on African Participation in IHY and ISWI WAPII**

Centre for Basic Space Science, National Space Research and Development Agency (NASRDA), University of Nigeria, Nsukka, Nigeria. Email: [cbss\\_unn@yahoo.com](mailto:cbss_unn@yahoo.com)



## Workshop on African Participation in IHY and ISWI WAPII

### Outline of Activities at the Proposed Workshop

I offer typical features of a Workshop as follows:

#### **Day 1:**

Arrivals

#### **Day 2:**

Opening ceremony  
Keynote address  
Technical session 1  
Lunch break  
Technical session 2  
Tea break  
Poster session  
Working groups meeting;  
End of event  
Cocktail

#### **Day 3:**

Technical session 1  
Tea break  
Technical session 2  
Lunch break  
Tea break  
Poster session  
Working groups meeting;  
End of event  
Dinner

#### **Day 4:**

Departure



**Workshop on African Participation in IHY and ISWI (WAPII)**

**Reiz Continental Hotel, ABUJA. 3-6 October 2010**

**Organised by**

**Centre for Basic Space Science CBSS  
National Space Research and Development Agency (NASRDA),  
University of Nigeria, Nsukka, Nigeria.**

**APPLICATION FORM**

**(To be filled in by typewriter or in block letters using black ink)**

**A. PERSONAL DATA**

1. Family Name: \_\_\_\_\_ First Name: \_\_\_\_\_

2. Sex (Male/Female): \_\_\_\_\_ 3. Date of Birth: \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_  
Day Month Year

4. Nationality: \_\_\_\_\_

5. Current title/Position: \_\_\_\_\_

6. Agency/Organization: \_\_\_\_\_

7. Principal Functions/Duties: \_\_\_\_\_

8. Official Mailing Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Country: \_\_\_\_\_

9. Phone: \_\_\_\_\_ Fax: \_\_\_\_\_

E-mail(s): \_\_\_\_\_

(Please make sure to double check your phone/fax numbers and E-mail address, since this will be our principal means to contact you)

10. In case of emergency contact: \_\_\_\_\_

Address: \_\_\_\_\_

Phone: \_\_\_\_\_ Fax: \_\_\_\_\_ E-mail(s): \_\_\_\_\_

**B. ACADEMIC AND PROFESSIONAL BACKGROUND**

11. Your academic background (degrees, where and when obtained, and a description of your fields of study):

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**C. PARTICIPANT PRESENTATIONS**

12. Please note that selected participants will have the opportunity to give a presentation of approximately 10-20 minutes on the topics listed in the Information Note. Please indicate below the title and give a short description of the presentation (you may also attach your paper/abstract to this application):

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**E. FUNDING**

13. Funds available to support African participants in the Workshop are limited. Participants who agree to fund round-trip air travel and/or living expenses will be considered on a priority basis. Please indicate if you can afford to fund any of the following:

- a) Round trip air travel to Abuja, Nigeria: Yes ( ) No ( )
- b) Living expenses for the duration of the Workshop: Yes ( ) No ( )

14. Applicant's signature:

\_\_\_\_\_  
(Signature)                      (Place)                      (Date)

**Important: Please email the completed form so as to reach us on or before 15<sup>th</sup> September 2010.**

**Email: tunderabiu@yahoo.com & cbss\_unn@yahoo.com**

**This (2 pages) was received by the ISWI Newsletter on 7 Sept 2010 with a request for general circulation. The Editor.**

## **PROF. P.N. OKEKE, FAS AND NASRDA CENTRE FOR BASIC SPACE SCIENCE, NIGERIA**

The National Space Research and Development Agency (NASRDA), Abuja Nigeria, was established in 2001 and one of its activity centres is Centre for Basic Space Science (CBSS). This name was coined after the UN initiatives of 1991. Prof. P.N. Okeke is the first and still the current Director of the Centre.

The mandate of the Centre includes: conducting research to expand the frontiers of knowledge in Astronomy and Atmospheric Sciences, with the primary objectives of development of skills and knowledge of researchers. This assignment has to be done in collaboration with both national and advanced international organization.

The Centre is located temporarily in the University of Nigeria, Nsukka, but is currently developing its permanent site about 10 kilometers outside Nsukka town in a beautiful valley free from noise and interferences.

Today, CBSS is collaborating with relevant Nigerian universities, research institutes, National Astronomical Observatory, Japan, National institute for optics and Astronomical Science China, Urunqi Observatory China, South African Astronomical Observatory, Cape Town, HartRAO Observatory South Africa, and University of Delaware, USA, etc. CBSS participated actively in the 2005 – 2009 IHY projects including the hosting of the International School IHY for all African countries. The Centre has also been billed to host the UN/NASA/JAXA/ESA/NSRDA/ISWI workshop in October, 2011.

Other achievements recorded by the Centre include:

- (i) The construction of one of the largest Radio Telescopes in Africa – a 25 metre dish which is currently being constructed in collaboration with China and will be installed in Nigeria by 2012.
- (ii) The installation of a wireless network of 20 automatic weather stations spanning the entire country for monitoring Real Time Climatic and Environmental Hazards. It is known as NECOP, Nigerian Environmental and Climatic Observing Programme.
- (iii) The installation of systems for studying radio propagation in the troposphere with the aim of producing an accurate characterization curves for Nigeria.

- (iv) Participating in all the IHY projects through installation and use of magnetometers SID, GPS, Aerosols and Pollution research, study of near earth objects.
- (v) CBSS received prize award for her outstanding performance in IYA 2009 100 days of Astronomy.
- (vi) CBSS is responsible in Nigeria for publishing primarily all the original results findings by researchers in Space Science and Technology in the country through the Journal known as Nigerian Journal of Space Research. Staff members of the Centre have published extensively both in other international Journals of Space Science as well as Nigerian Journal of Space Research.

#### ABOUT THE DIRECTOR OF CBSS: PROF. P.N. OKEKE, FAS, FRAS

Prof. P.N. Okeke has two major visions/missions which he pursued relentlessly over the past 40 years: the first of this mission is to participate actively in the development of Basic Space Science not only in Nigeria but Africa in general. The following appointments buttress this fact. He served as an external board member of NFR, South Africa for Astronomy from 1996 – 2000; during this period he encouraged the blacks to participate in Astronomy programmes.

Prof. Okeke and late Bob Stobie were instrumental for the planning and sitting of SALT in Southland, and trained a number of PhDs using facilities in South Africa. He is currently serving as the Director of NASRDA Centre for Basic Space Science (Astronomy and Atmospheric Sciences) as well as a member of technical Advisory Board of NASRDA. Prof. Okeke was given a letter of commendation by United Nations during one of UN's meetings in Tokyo 2007, for his tremendous role in the development of Astronomy in Africa and he is still a single point contact for Astronomy in Nigeria.

Apart from the above, Prof. Okeke works extremely hard to make the study of Physics and Astronomy easy and interesting in West Africa. He has written over fifteen textbooks in Physics and Astronomy at both tertiary and higher schools. These books are today, the most popular books in Nigeria and some parts of West Africa.

Professor Okeke has published extensively in various areas of Space Science and his final ambition is to complete the construction of a 25m Radio Telescope which he intends to operate with over twenty former PhD students whom he produced in collaboration with various research groups in the world.