



# Presentation Outline

**Background**

**Mission/mandate of Centre**

**Governing board meeting and Recommendations**

**Highlights of space education outreach programmes for 2008/2009**

**Challenges of the PGD programme implementation in Nigeria**





# BACKGROUND

## HIGHLIGHTS OF THE ACTIVITIES OF THE AFRICAN REGIONAL CENTRE FOR SPACE SCIENCE AND TECHNOLOGY EDUCATION-ENGLISH (ARCSSTE-E), ILE-IFE, NIGERIA FROM INCEPTION (1998) TO DATE (2009)



**Dr. J.O. Akinyede**  
**Executive Director, ARCSSTE-E**





# Inauguration of ARCSSTE-E, Ile –Ife, Nigeria

Inauguration of Centre at Sheraton Hotel,  
Abuja, Nigeria, 24th November, 1998.

Attended by eight of the 22 member counties,  
viz:

**Kenya, Ghana, Namibia, South Africa,  
Sierra Leone, Liberia and Egypt and  
Nigeria the host country – 8 countries**

Same day and venue of first meeting of  
the  
eight member states: Memorandum of  
Understanding (MoU) was signed, with  
Dr A.

A. Abiodun signing for the UN-OOSA



ARCSSTEE Building



Hosted By Obafemi Awolowo University, Ile-Ife, Nigeria;  
Provided present Office Space and has donated 15 Acres of Land  
for Permanent Site



## ARCSSTE-E AT A GLANCE



**1st Director, Prof. E.E. Balogun**  
(from inception to 2005)

**Inauguration and Commissioning of  
Center's Facilities, 24th November, 1998**



**1st Governing Board Meeting,**  
**11<sup>th</sup> March, 2008**

**2nd Director, Prof. O.O. Jegede**  
(from June, 2005 to Feb, 2009)



**3rd Director,**  
**Dr. J. O. Akinyede**  
(from April, 2009 to date)

**Hostel Accomodation for  
PGD Students**





## MISSION/MANDATE OF THE PGD PROGRAMME

- **To build indigenous capacities in Space Science and Technology (SST) applications**
- **Serve as an educational, Research and Training institution in SST**
- **To Boost the growth and capacities of the participating African countries.**
- **Enhance Anglophone countries' knowledge, understanding and skills in SST applications**
- **Drive the applications of SST for national and regional development through teaching, research and development in four prime areas of SST, viz:**
  - Remote Sensing/GIS,**
  - Satellite Communication,**
  - Satellite Meteorology/Global Climate and**
  - Basic Space and Atmospheric Sciences.**

**Now with expanded mandates in GNSS and Space Law**



## 9 MONTHS POSTGRADUATE DIPLOMA PROGRAMME IMPLEMENTATION

- In line with the curriculum approved by the UN-PSA; modular courses, with assessment at the end of each module
- Field trip/educational tours as part of training
- Hands-on/ practical
- Functional Library
- Resource persons from within and outside Nigeria
- Scholarships/fellowship + stipends (funded by Nigeria) + Return tickets (provided by OOSA)
- Commencement: April 2000 to date
- Initially September to July
- Since 2005, re-scheduled to run from January to October every year
- Award of PGD Certificates (jointly signed by UN-PSA and Centre)



## TOTAL NUMBER OF PARTICIPANTS PER COUNTRY SINCE 2000

- **Cameroon**      **18**
- **Sudan**            **8**
- **Malawi**            **5**
- **Uganda**            **5**
- **Kenya**             **3**
- **Liberia**            **2**
- **Ethiopia**          **3**



- **Gambia**            **2**
- **Tanzania**          **4**
- **Zimbabwe**        **2**
- **Zambia**            **2**
- **South Africa**     **1**
- **Congo (DRC)**    **1**
- **Nigeria**           **119**
- **Ghana**             **1**
- **Sierra Leone**    **1**

**TOTAL (16 countries)**

**= 177 participants**



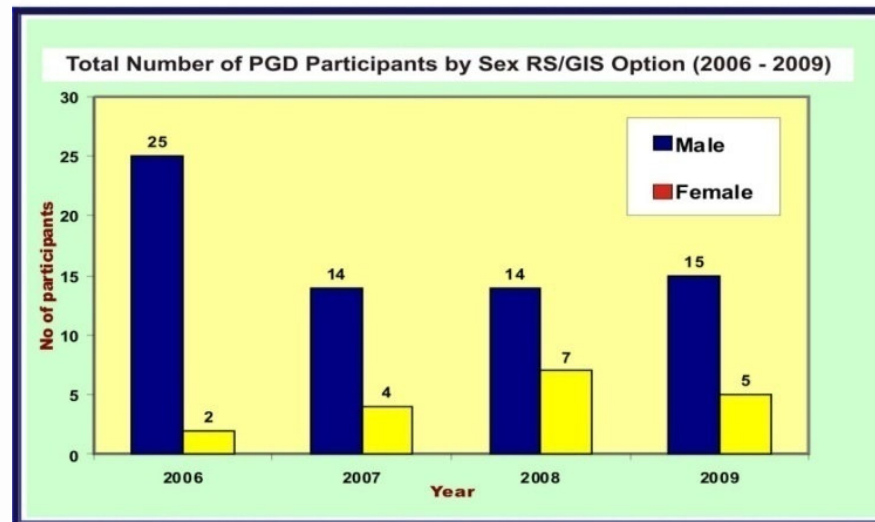
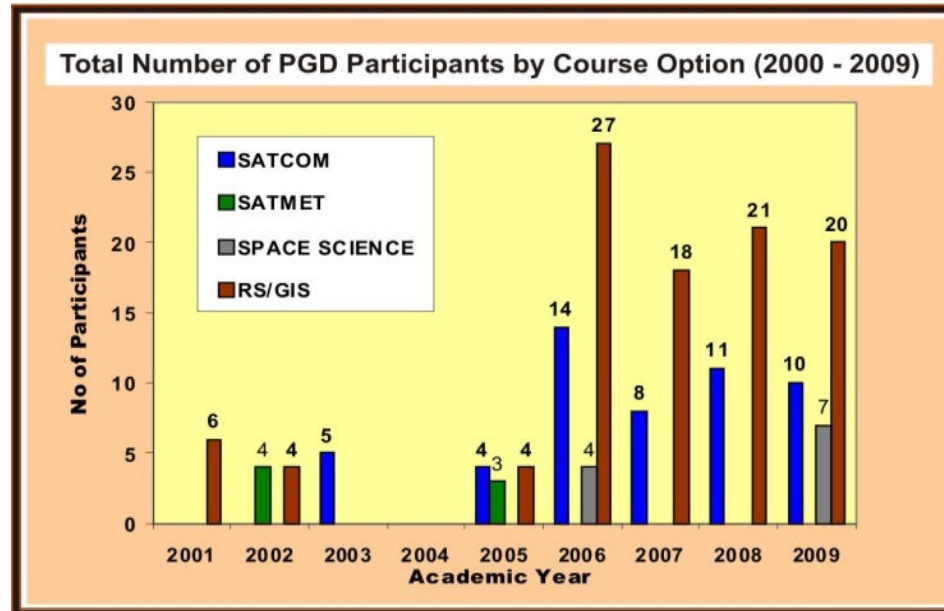
## 2009 PARTICIPANTS

COUNTRY	NOS. OF PARTICIPANTS
Ghana	1
Malawi	2
Kenya	2
Uganda	1
Tanzania	2
Zambia	1
Zimbabwe	1
Cameroon	3
<u>Nigeria</u>	<u>26</u>
<b>TOTAL</b> =	<b>39</b>





# Statistics of PGD participants by course options and gender





## Yearly Distribution of Participants since 2000

SESSION	RS/GIS	SATCOM	BSAS	SATMET	TOTAL
2000/2001	6	-	-	-	6
2001/2002	5	-	-	4	9
2002/2003	-	5	-	-	5
2003/2004	-	-	-	-	-
2004/2005	4	4	-	3	11
2006	28	14	4	-	46
2007	18	8	-	-	26
2008	23	12	-	-	35
2009	22	8	8	1	39
<b>TOTAL</b>	<b>106</b>	<b>51</b>	<b>12</b>	<b>8</b>	<b>177</b>



Distribution of member states by participation in the PGD programme.



## Typical dress codes for opening and graduating ceremonies



**PGD GRADUATING CEREMONY FOR 2008**



**PGD OPENING CEREMONY FOR 2009 WITH 39 PARTICIPANTS FROM 9 COUNTRIES**



**NEW PGD HOSTEL**



## **WORKSHOPS, CONFERENCES, SEMINARS AND PUBLICATIONS**

### **Organisation of short courses and workshops for stakeholders as needs and requests arise:**

- **WORKSHOP ON Nigerian MESOSCALE project for Nigerian universities in conjunction with IPPS, Uppsala university, Sweden.**
- **GEOFORMING workshop for Nigerian Stakeholders in conjunction with NASRDA and Space Application and Environmental Laboratory, Institute of Ecology, OAU, Ile-Ife.**
- **Capacity Building on the Use of Landsat Dataset for Sustainable Resource and Environmental Management in Africa.**
- **Global Learning and Observation to Benefit the Environment (GLOBE) Trainers Workshop for Science Teachers in High Schools and universities in collaboration with North Lake College, Texas, USA and Osun State Government in Nigeria.**
- **Workshop on Capacity and Institutional Building: Application of Satellite Data for Resources and Disaster Management and Global Climate Change**
- **PUBLICATION & CIRCULATION OF BI-ANNUAL MAGAZINE CALLED "ORBIT"**



## GOVERNING BOARD MEETING AND RECOMMENDATIONS

- **Governing board meeting was held on 11th March, 2009**
- **Attended by Twelve (12) member countries represented either by their high commissioners/ambassadors or first secretaries, viz:**  
**Sierra Leone, Botswana, Tanzania, Kenya, Uganda, Ghana and Zambia, Zimbabwe, Sudan, Gambia and Namibia and Nigeria.**
- **Mr. Sergei Chernikov, programme Officer, United Nations Office for Outer Space Affairs (UN- OOSA) , as well as Dr S. O. Mohammed the Acting Director General of NASRDA and the representative of the Vice Chancellor, OAU, Ile-Ife, Nigeria**



**2009 GOVERNING BOARD MEETING,**



## **RECOMMENDATIONS OF THE GOVERNING BOARD AT THE 2009 MEETING:**

- **Establishment of linkages/contact between the Centre and the relevant ministries in member states ; the respective High Commissions/Embassies offered to facilitate this process.**
- **Ministers and Directors of relevant ministries in member states to attend the Governing Board meetings which has been scheduled to hold in March every year.**
- **Director and principal officers of the Centre to pay advocacy visits to governments of member states**
- **Peer review mechanisms to be established within Regional Centres to facilitate exchange of ideas/collaboration and learning process.**



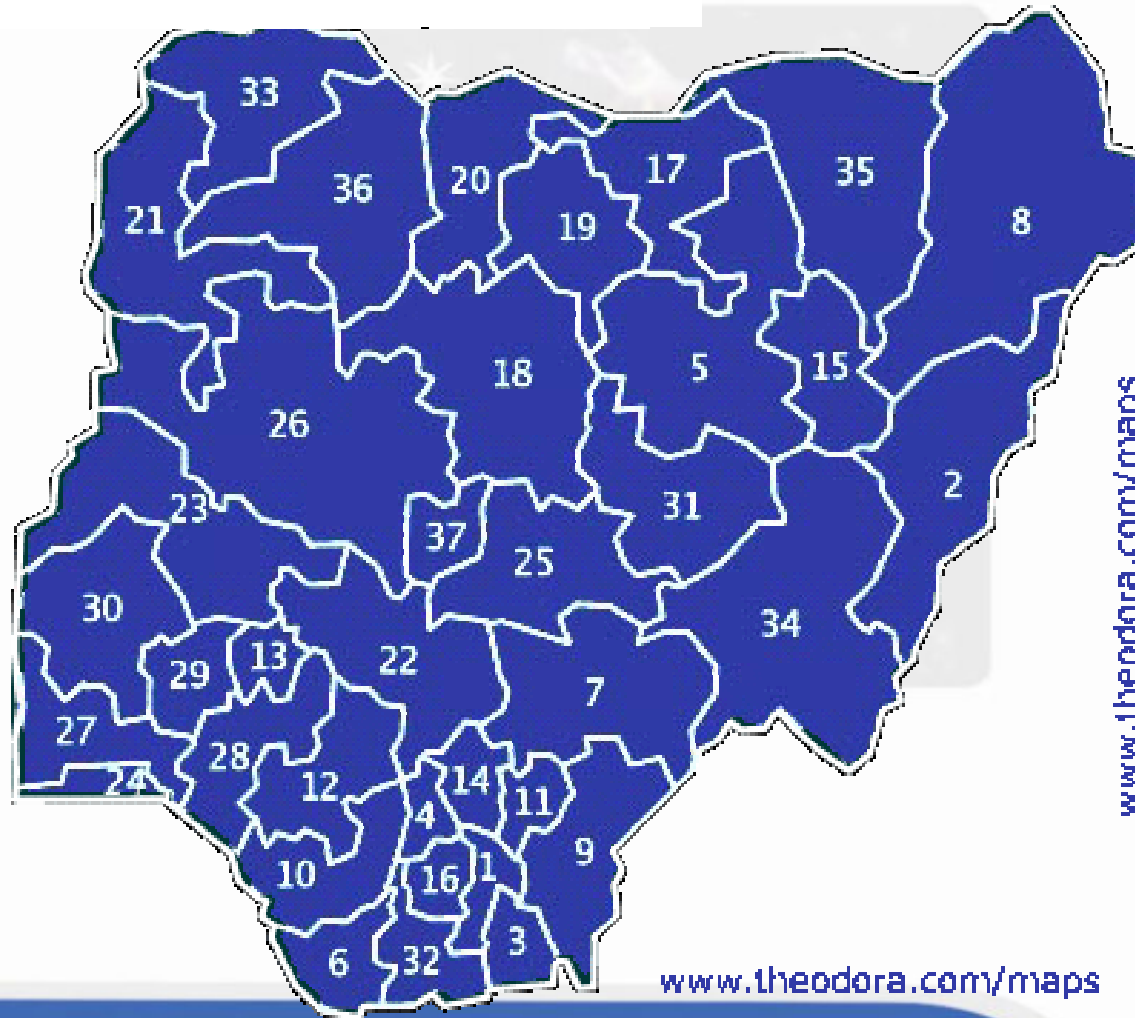
## **Recoms. cntd**

- **Ministerial meetings of member states to be organised by host country (Nigeria) as need arises.**
- **Linkages/collaborations with relevant tertiary institutions to mobilise course participants and resource persons**
- **Host country (Nigeria) to increase efforts in fund mobilisation from corporate bodies and international organisations**
- **Reports on course participants, including areas of application/benefits of their studies, to be forwarded to home countries through the High Commissions in Nigeria**



# HIGHLIGHTS OF SPACE EDUCATION OUTREACH ACTIVITIES (2008/2009)

## COVERAGE OF OUTREACH ACTIVITIES



[www.theodora.com/maps](http://www.theodora.com/maps)

[www.theodora.com/maps](http://www.theodora.com/maps)





## ACTIVITIES INVOLVED IN THE OUTREACH PROGRAMME OF SPACE SCIENCE AND TECHNOLOGY EDUCATION IN NIGERIA

1. Annual Schools' Space Education Outreach programmes
  - Nursery/Primary schools poetry, rhymes, songs, etc.
  - Secondary schools' Quiz, debate, art and essay competitions
  - Science project exhibitions by schools
  - Educational tour/excursion
2. Teachers' Seminars/ Curriculum Development
3. Zeronaut programme supported annually by the USA.
4. Activities marking the World Space Week



# Space Education Workshop Ilorin, (Jan, 2008)



**Cross section of attending students & high table**



**Students asking questions about the presentation delivered.**



**Another view of participating students**



# 2008 WORLD SPACE WEEK



Dr. Favier (an Astronaut) with winners of a debate competition



Primary school pupils in a performance during the WSW 2008



Representative of VC, OAU with other guests at a lecture held in the university hall



Guests at the gala night



Group photograph with students at WSW 2008



# Training Workshop for Space Science Education Contact Teachers, 11<sup>th</sup> December, 2008



**Cross section of participants**



**Interactive session**



**Group photograph**



# Space Education Workshop, Owode, Ogun State (December, 2008)



Event banner



Dignitaries on high table



Cross section of attendees



Group photograph



## SPACE EDUCATION WORKSHOP, KANO, MAY, 2009.



Cross section of students



Resource person making a presentation



Courtesy call to the VC, BUK, Kano



Courtesy calls to the Commissioners for Sc & Tech and Education, Kano State to solicit for partnership in the space education programme





# ANNUAL SPACE EDUCATION WORKSHOP, MAY, 2009



Exhibition by schools



Cross section of attendees



Group photograph



## ARCSSTE-E'S ZERONAUTS PROGRAMME AS PART OF THE WORLD SPACE WEEK ACTIVITIES

- **Zeronaut** programme is established to inspire the young ones. It takes place annually at Kenedy Space Centre, Florida, USA in collaboration with Space Week International Association (SIA).



**Stella Felix**

ARCSSTE-E's 1st Zeronaut 2006



**Adeolu Akano**

ARCSSTE-E's 2nd Zeronaut 2007



**Omolola Ibrahim**

ARCSSTE-E's 3rd Zeronaut 2008





## **CHALLENGES OF THE POSTGRAGUATE PROGRAMME IMPLIMENTATION**

- **Poor funding, especially without any funding support from other African countries since inception**
- **Inadequate Hostel accomodation**
- **Inadequate research materials/equipment etc**
- **Inadequate project vehicles**
- **Limited number of Lecture rooms**
- **Sustainability of scholarship/fellowship**





**Stella Felix**

**ARCSTE-E's Zeronaut 2006**



**Adeolu Akano**

**ARCSTE-E's Zeronaut 2007**

# Thank You



**Omolola Ibrahim**

**ARCSTE-E's Zeronaut 2008**