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


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

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

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

1st Governing Board Meeting, 11th March, 2008

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

Hostel Accomodation for PGD Students

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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
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<th>COUNTRY</th>
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</tr>
<tr>
<td>Cameroon</td>
<td>3</td>
</tr>
<tr>
<td><strong>Nigeria</strong></td>
<td><strong>26</strong></td>
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<td><strong>TOTAL</strong></td>
<td><strong>39</strong></td>
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</table>
Statistics of PGD participants by course options and gender

Total Number of PGD Participants by Course Option (2000 - 2009)

- SATCOM
- SATMET
- SPACE SCIENCE
- RS/GIS

No of Participants

<table>
<thead>
<tr>
<th>Year</th>
<th>SATCOM</th>
<th>SATMET</th>
<th>SPACE SCIENCE</th>
<th>RS/GIS</th>
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<td>2003</td>
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<td>14</td>
<td>14</td>
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<td>2007</td>
<td>18</td>
<td>11</td>
<td>18</td>
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<tr>
<td>2008</td>
<td>21</td>
<td>10</td>
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<tr>
<td>2009</td>
<td>20</td>
<td>7</td>
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</table>

Total Number of PGD Participants by Sex RS/GIS Option (2006 - 2009)

- Male
- Female

No of participants

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<th>Year</th>
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<th>Female</th>
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<tr>
<td>2009</td>
<td>15</td>
<td>5</td>
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</table>
# Yearly Distribution of Participants since 2000

<table>
<thead>
<tr>
<th>SESSION</th>
<th>RS/G IS</th>
<th>SATCOM</th>
<th>BSAS</th>
<th>SATMET</th>
<th>TOTAL</th>
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<td>2009</td>
<td>22</td>
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<tr>
<td><strong>TOTAL</strong></td>
<td><strong>106</strong></td>
<td><strong>51</strong></td>
<td><strong>12</strong></td>
<td><strong>8</strong></td>
<td><strong>177</strong></td>
</tr>
</tbody>
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*Distribution of member states by participation in the PGD programme.*
Typical dress codes for opening and graduating ceremonies

PGD GRATUATING CEREMONY FOR 2008

NEW PGD HOSTEL

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

[Map showing coverage of outreach activities in Nigeria with numbers in each region]
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
Cross section of attending students & high table

Students asking questions about the presentation delivered.

Another view of participating students
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\textsuperscript{th} 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 POSTGRADUATE PROGRAMME IMPLEMENTATION

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

Stella Felix
ARCSSTE-E’s Zeronaut 2006

Adeolu Akano
ARCSSTE-E’s Zeronaut 2007

Omolola Ibrahim
ARCSSTE-E’s Zeronaut 2008