African Regional Centre for Space Science and Technology Education - English

Building capacity for space science and technology application for Africans
Report to the 49th Session of the United Nations Committee on the Peaceful Uses of Outer Space (COPUOS)

Prof. Oluwagbemiga O. Jegede
DIRECTOR, AFRICAN REGIONAL CENTRE FOR SPACE SCIENCE AND TECHNOLOGY EDUCATION - ENGLISH
Obafemi Awolowo University campus,
PMB 019 OAU PO, Ile-Ife, NIGERIA.

VIENNA, AUSTRIA
Mission Statement

To build a high quality capacity of indigenous educators in English-speaking African countries for application of space science and technology for sustainable national, regional and continental development.

(http://www.oauife.edu.ng/research/arcsstee)
Milestones - ARCSSTEE

- Hosted by the Government of Nigeria (located at Obafemi Awolowo University campus, Ile-Ife).
- Centre is solely funded by NASRDA/FMST (OOSA gives travel support).
- Governing board (GB) is not functioning.
Scientific Steering Committee (SSC)

- Director, ARCSSTE-E (Prof. O. O. Jegede)
- PGD Course Coordinator (Dr. S. S. Okoya)
- Prof. A. T. Salami
- Prof. F. A. Adesina
- Prof. A. Amusa
- Prof. E. E. Balogun
- Prof. J. A. Omotosho
- Prof. E. O. Oladiran
- Prof. J. A. Adedokun
- Prof. E. O. Oladiran
- Dr. S. A. Adeniran
PG Diploma Courses in SST Application

- RS/GIS (since 1999)
- SatCom (since 2000)
- SatMet (since 2001)
- BSAS (2005)

Curricula developed by the United Nations Programme on Space Application (UN-PSA).
PGD Programme

- Academic (in residence at ARCSSTE-E) – lectures + tutorials + practicals.
  - written/practical exams at end of module.
- Field/practical exercises
- Workshops/seminars
- Study projects
Support

- Modern lecture rooms
- Computers/software
- Full internet connectivity
- Scholarships for foreign course participants:
  - Free Tuition
  - Hostel accommodation
  - Living allowance
  - Medical, social adaptation
- Outreach programme
RS/GIS course (January 2006)

- Class size = 29
- 11 participating African countries:
  Kenya (3), Liberia (1), Gambia (1), Sudan (2), Ethiopia (3), Zambia (1), Uganda (1), S/Africa (1), Cameroon (4), Malawi (1), Nigeria (11)
- Diverse academic fields
- Ages: 23 – 45
- Gender ratio: 27:2 (Male:Female)
Calender (RS/GIS course)

- **Jan. 21-24, 2006**: Arrival of foreign participants.
- **Jan. 25-31, 2006**: Registration/orientation week formalities.
- **Feb. 06**: Lectures commence/Module I – Fundamentals
- **May 06**: Beginning of Module II – Application
- **Aug. 06**: Beginning of Module III – Projects
- **Oct. 06**: End of the PGD course
2006 Postgraduate Diploma Course in Remote Sensing/GIS
Other PGD courses (on-going)

- **SatCom** (October, 2005)
  Class size = 14
  Nigerians participants only

- **BSAS** (October, 2005)
  Class size = 4
  Nigerian participants only
Workshops

Cultural/Adaptation

- Guest lectures given on topics of cultural interests and politics/international relations
- Excursions to historical places
- University-life environment
Cultural
Research Projects

- Nigeria Mesoscale Experiment (NIMEX) – collaboration between ARCSSTEE, 3 Universities in Nigeria, University of Bayreuth, Germany and International Programmes in the Physical Sciences, Sweden.

- Monitoring deforestation and its implications for biodiversity in Nigeria using NigeriaSat-1 and other satellites
Outreach Programme

- Schools’ workshops on space education
- Media awareness campaigns
- Fabrication of mock-ups of satellites, launch-vehicles, etc.
- Space education curriculum development
Requests

- Data/additional equipment for training
- Hardware/software support (donations)
- Hosting of web-pages
- Endorsement of diploma certificates
Thank you.