

# **Role of the African Physical Society towards an African Light Source**

***Professor Francis K. Allotey  
President, AfPS***

***Director, AIMS-Ghana***

***Int'l Bd of Editors, African Rev of Phys  
(Presented by S. Mtingwa)***

# Genesis of AfPS was during 2<sup>nd</sup> US-Africa Advanced Studies Institute & EBASI Meeting iThemba LABS, Cape Town, November 2007





# Organizers of the AfPS at the 2<sup>nd</sup> US-Africa Advanced Studies Institute & EBASI Meeting iThemba LABS, Cape Town, November 2007



# 1st African Physical Society (AfPS) Council Meeting

## Francis Allotey, President

## Ahmadou Wagué, Vice-President

## Dakar, January 2010





# Possible Ways for AfPS to assist AfLS Initiative

- **Interface with appropriate Commissioners and Ministers (S&T, Health, Education, Energy, etc.) to keep them abreast of the latest developments and seek their buy-in.**
- Encourage African countries to investigate their suitability for hosting the facility.
- **Assist with a Colloquium Program that sends light source users to various universities and other institutions to inform researchers/faculty and students as to how light sources can assist with their research and training.**

# Possible Ways for AfPS to assist AfLS Initiative (cont'd)

- **Identify companies in various countries that could benefit from the use of light sources.**
- Offer a representative to serve on the AfLS Steering Committee.
- **Undertake special projects that will benefit the AfLS initiative.**
- Assist with planning future conferences and workshops.

# African Review of Physics

- **Started in 2006 at ICTP.**
- Free, open access, online, peer-reviewed, international journal that publishes reviews, research articles, and brief communications in all branches of experimental and theoretical physics.

*There is the possibility to include articles by the growing community of African synchrotron light source users.*

- Also publishes timely Special Issues.

*There is the possibility to publish an issue on some of the latest breakthroughs in the use of synchrotron light sources.*

# **African Institutes for Mathematical Sciences**

## **Current AIMS Locations**

- **Cape Town, South Africa, launched 2003**
- **Mbour, Senegal, launched 2011**
- **Biriwa, Ghana, launched 2012**
- **Limbe, Cameroon, launched 2014**



# AIMS-GHANA



# AIMS Description

- **The plan is to launch 15 AIMS centres across Africa.**
- Each centre provides postgraduate training and research in broadly applicable mathematical skills to talented students from all over Africa.
- Outstanding international and African lecturers teach 3-week courses, leveraging the expertise and goodwill of top academics from around the world.

# AIMS Potential Contributions

- **Offer courses relevant to the utilisation of synchrotron light sources**
  - Mathematics of accelerators
  - X-ray diffraction and other scattering techniques
  - Spectroscopy
  - Imaging techniques
  - Relevant simulations
  - Computer Software.
- **Facilitate student visits to international light sources for training.**

**THANKS FOR YOUR ATTENTION.**