ANSTI
Annual Report
2011

The African Network of Scientific and Technological Institutions
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The year under review was very busy implementing activities, taking on new responsibilities to increase ANSTI’s visibility as well as evaluating the activities and performance of the network over the last four years. The Network continued to consolidate partnership with L’Oreal Foundation through the ward of UNESCO-L’Oreal Fellowship for Women in Science in Sub-Saharan Africa. This was preceded by a two day workshop for women scientists and engineers in Africa to build capacity for networking and mentoring of young female scientists and engineering. We look forward to partnering with other private institutions to raise the profile of and honouring many outstanding African Scientists, Engineers and Technologists.

The second achievement is the increase in the memberships of ANSTI. During the year the Network’s membership rose to one hundred and Eighty Four (184) representing 37 countries in sub-saharan Africa. There were four new members and indicating the acceptance of ANSTI relevance as a network in science technology and engineering in Africa. The strength of ANSTI is in its numbers as well as its financial capability and I will encourage member institutions to pay their annual subscription to enable the Network to carry out its activities.

I would like to take this opportunity to thank all member institutions, our development partners and ANSTI staff members for another successful year. I would particularly want to acknowledge work the Director of UNESCO Professor Joseph Massaquoi who acted as Coordinator for three years when the Network was without one. This would not have been possible without you all.
Message from the Coordinator

We are delighted to share with you the activities undertaken and the progress we made in 2011. With support from member institutions and partners, the ANSTI team was able to implement all activities approved in the work plan. Two flagship activities were successfully undertaken in 2011. ANSTI’s partnership with L’Oreal Corporate Foundation witnessed the recognition of ten (10) outstanding female scientists, technologists and engineers for their contributions in their fields of expertise; an increase of 100% over the previous year. These distinguished female scholars were honoured through the awards of US$ 20,000 each to pursue their PhD research programmes at an elaborate ceremony in Johannesburg, South Africa.

The second flagship activity, the Conference of Vice Chancellor and Deans of Science and Technology (COVIDSET2011), the fourth in the series was also a success bringing together over 120 participants comprising Vice Chancellors, university administrators, policy makers, development partners, development bank and colleagues from the diaspora.

These achievements would not have been without the support of all our partners, member institutions and the ANSTI Team. We would like to thank our Development partners, for grants to cover the various Network’s activities, the German Academic Exchange Service (DAAD) which continues to support successful candidates to pursue their postgraduate studies; the L’Oreal Corporate Foundation for supporting outstanding female scientists in sub-Saharan Africa to pursue PhD programmes and; the United Nations, Educational, Scientific and Cultural Organisation (UNESCO) for funding over 60 participants comprising Vice Chancellors, Deans and Provosts to attend and present papers on emerging areas of science engineering and technology at the COVIDSET 2011 and for generously assigning their senior science programme specialist to coordinate the activities of ANSTI on part-time basis. We look forward to your continued support.

Special Appreciation goes to Professor Joseph G. M. Massaquoi, Director of UNESCO Regional Office for Science and Technology in Africa (ROSTA) in Nairobi who for many years has combined his busy schedule with the coordination of activities of the Network. His leadership has maintained the visibility of the Network and we are most grateful to him.

Dr. Peggy Oti-Boateng
ANSTI Coordinator
List of Abbreviations And Acronyms

AAU: Association of African Universities
AJST: African Journal of Science and Technology
ANSTI: African Network of Scientific and Technological Institutions
AU: African Union
CASTAFRICA: Conference of African Ministers of Science and Technology
COVIDSET: Conference of Vice-Chancellors, Deans of Science, Engineering and Technology
DAAD: German Academic Exchange Service
FAOE: Federation of African Organization of Engineers
GASAT: Gender and Science and Technology
IACEE: International Association for Continuing Engineering Education
ICT: Information and Communication Technology
IMSP: Institut de Mathematiques et de Sciences Physiques
JKUAT: Jomo Kenyatta University of Agriculture and Technology
NGO: Non-Governmental Organization
S&T: Science and Technology
UNDP: United Nations Development Programme
UNECA: United Nations Economic Commission for Africa
UNESCO: United Nations Educational, Scientific and Cultural Organization
Summary

The year 2011 was a good one in which two flagship programmes, the L’Oreal-UNESCO Regional Fellowships for Women in Science in Sub-Saharan Africa and the Conference of Vice Chancellors and Deans of Science and Technology (COVIDSET 2011) were showcased. The Network in collaboration with the L’Oreal Foundation, administered the awards of L’Oreal-UNESCO Regional Fellowships grants of US$ 20,000 each to ten (10) distinguished women in science in Sub-Saharan Africa for their outstanding work in science and engineering. The ten outstanding women were awarded the fellowship at a ceremony in Johannesburg, South Africa, on the 30th March 2011. This $20,000 fellowship was given to these women towards the completion of their PhD studies in various fields of science.

The Conference of Vice Chancellors and Deans of Science and Technology (COVIDSET 2011) co-hosted by the Durban University of Science and technology (DUT) in Johannesburg, South Africa was a great success. It brought together over 120 participants from 18 countries in Africa, Europe and America. It provided the platform for University leaders, scientists, engineers, development partners, development banks and government officials in Africa and the Diaspora to exchange ideas and experiences, share good practices as well as sensitise university leaders on new and emerging trends in science, engineering and technology to enhance Africa’s global competitiveness and the impact of high-level training and research on Africa’s development. This was under the theme, Harnessing Africa’s Scientific, Engineering and Technology Innovations for Sustainable Development: The Role of Universities, with sub-themes on: Innovative use of science, engineering and technology in meeting the Millennium Development Goals, University-Private Sector-Donor Partner collaboration, Intellectual Property Rights and the State of Science and Engineering Universities in Africa. In addition there will be parallel sessions on new and emerging trends in Nanotechnology, Climate Change Adaptation and Green Energy.

In the same year the Network awarded 7 fellowships to staff of member institutions funded by the German Academic Exchange Service (DAAD). The fellowships, just like in previous years, enabled the successful candidates to pursue their postgraduate studies.

ANSTI is also pleased to report that in 2011, it welcomed four new members to bring the Network’s membership to one hundred and Eighty Seven (187) members representing 37 countries in sub-Saharan Africa.

The list of members in good standing is presented in Appendix III. The list of all ANSTI member institutions is given in Appendix VI.

The Network held its Governing Council meeting in November 2011, in Johannesburg, South Africa where the coordinator presented a report on the Network’s activities to the Council members.
Brief History of ANSTI

The African Network of Scientific and Technological Institutions is a regional non-governmental organization (NGO) which was established in January 1980 by UNESCO with funding from United Nations Development Programme (UNDP) and the German Government. The Network was conceived in response to the resolutions from the Conference of African Ministers of Science and Technology (CASTAFRICA) which was held in Dakar, Senegal, in January 1974. At that meeting, the African ministers present, urged UNESCO to help African Universities and research organizations engaged in training and research in science and technology to establish such linkages among themselves to enable them to pool their human and material resources and thereby contribute more effectively to the application of science and technology to development in Africa.

Although UNESCO was initially very warm to the idea, the organization had to be sure that there was enough interest and enthusiasm for it among African institutions and also determine the number and types of institution, which will form the Network. Thus, in 1975 a consultant was engaged to conduct a feasibility study for the Network. The consultant who visited nineteen (19) universities in the region summarized his reason for a positive recommendation as follows:

“It is difficult to exhaust all the arguments in favour of the creation of the Network. The strongest, however, is the fact that, practically everybody wants it and everybody is anxious that it should be created, structured, administered, financed and operated in such a manner that it can work to the satisfaction of all.” Thus, we can conclude that the ANSTI project was demand-driven and that beneficiaries were involved in its development. This fact is obviously one of the strengths of the Network.

After two expert group meetings on the consultant’s report, a project proposal was finally produced in December 1978 and submitted to UNDP for funding. The first project document in support of ANSTI was signed by UNDP on 4 May 1979 and the Funds-in-trust agreement with the federal Republic of Germany to assist ANSTI was signed on 5 August 1980.

ANSTI formally came into existence on 6 January 1980 which is the day the first Coordinator assumed office. The Network has its own constitution and operates as a regional NGO with a Pan-African Governing Council. UNESCO continues to provide financial and technical assistance to ANSTI. It is assigned the responsibility of coordinating the activity of ANSTI. In accordance with this arrangement, UNESCO in 1993 agreed to assign its Programme Specialist responsible for the Engineering Sciences in Africa, the additional responsibility of serving as a part-time Coordinator of ANSTI. The Network’s Secretariat is also housed in the UNESCO Nairobi office.
**Ansti’s Vision, Mission and Objectives**

**Vision**

The vision of ANSTI is to become a Major institutional player in the process of human resource capacity building in science, engineering and technology in Africa. The Network works to become the region's focal point for activities relating to human resource capacity building in Science & Technology (S&T).

**Mission**

The mission of ANSTI is to facilitate active collaboration among African Scientific institutions for the purpose of training and research in science, engineering and Technology.

**The Objective**

The goal is to building high-level human resource capacity to undertake research and training in science and technology. The specific objectives are:

- To facilitate and enhance interactions among member institution;
- To facilitate training and research in Science, Engineering and Technology;
- To promote the use of ICT in teaching and research in Science, Engineering and Technology;
- To promote Gender Equity in access to Science, Engineering and Technology training institutions;
- To develop and disseminate scientific and technical information to address major socio-economic problems; and,
- To strengthen the Network
State of Membership

The state of membership as at 31st October 2011 stands at 187 institutions representing 37 countries in sub-Saharan Africa. During this reporting period the Network admitted the following four (4) new members:

1. School of Life Sciences and Bioengineering
2. Nelson Mandela African Institute of Science and Technology
   P.O. Box 447, Arusha, Tanzania
3. Faculty of Engineering, Covent University
   KM. 10 Idiroko Road, Canaanland
   P.M.B. 1023 Ota, Ogun State Nigeria.
4. School of Engineering Sciences
   Bondo University College
   P.O. Box 210-40601
   Bondo, Kenya
Programme Activities and Accomplishments in 2011

This period has seen the increase in the number of paid up institutions from as low as twenty three (23) representing 12.5% last year to sixty-five representing 35% of members in good standing for this year. The 280% increase in number of institutions in good standing over last year’s can be attributed to one of the criteria for sponsorship to COVIDSET 2011 which is offered to members from institutions in good standing. The list of members in good standing is presented in Appendix II. The list of ANSTI member institutions is given in Appendix III.

The three flagship programmes in ANSTI are the DAAD Postgraduate Training Fellowships, L’Oreal Corporate Foundation Fellowships for Women in Science in sub-Saharan Africa and the Conference of Vice Chancellors and Deans of Science and Technology (COVIDSET)

Award and administration of post-graduate training fellowships

In this year’s selection process, the Secretariat received 51 applications from 13 countries. Out of the total, 12 were female and 39 were male. From this pool of applicants, Seven (7) candidates were selected to receive the DAAD fellowships. The selection process is rigorous and competitive and must meet all the criteria of the final selection panel in Bonn, Germany. Five of the awardees were offered fellowships to pursue PhD programmes with two being offered fellowships for Masters programmes. Majority of the fellowship (6) were granted for programmes in engineering or physical sciences.

The lists of those who were awarded fellowships for the year 2011/2012 and those who took up their fellowships in 2010/2011 are shown in Tables 3 and 4 respectively. Figure 1 gives a cumulative distribution geographical distribution of the awardees (1994-2011). In order to compare the distribution of beneficiaries among the members in good standing, the regional distribution of fee paying members of ANSTI is also presented in Fig.2

Award and administration of the L’Oreal/UNESCO Regional Fellowships for Women in Science.

The 2011 UNESCO–L’Oreal Regional Fellowship awards were given to ten deserving and outstanding female scientists and engineers from Cameroon (1), Kenya (3) Nigeria (2), and South Africa (4) at an elaborate ceremony in Johannesburg, South Africa. This was an increase in the number of recipients from 5 in 2010 to 10 this year. Twenty thousand dollars (US$20,000.00) was presented to each winner. The President of the Jury and Director of UNESCO ROSTA, Prof. Joseph Massaquoi, explained the criteria for selection and the processes involved in the final selection of the ten 2011 UNESCO-L’Oreal Regional fellowships award winners (Fig3).

The award ceremony was attended by a number of stakeholders from academia, industry, private sector, Government departments, NGOs distinguished scientists, engineers and technologist and the public. The Regional Director of L'Oreal for Sub-Saharan Africa, based
in South Africa reiterated his company’s continuous support for the award in years to come. This is a clear indication of private-public partnership for sustainable socio-economic development of Africa through harnessing the potential of African women scientists and engineers. Awards were presented to ten (10) winners for 2011 for outstanding scholarly work in science, engineering and mathematics towards the completion of their PhD research work (Fig. 3).

The various areas of research and innovation of these women are exciting. These range from agriculture, value addition to indigenous traditional knowledge in herbal medicine through scientific modification in solving problems of malaria; energy efficient bio-fuels (green energy) with positive effect on mitigating climate change; medical virology in anti-retroviral treatment of HIV; bio-control of insect pests to reduce chemical pesticides; nanotechnology to develop medically important anti-microbial fibres and materials for wound dressing; civil engineering for environmentally sustainable structures; sensors for detection of heavy metals to reduce water pollution; learning device suitable for multimedia for people with learning difficulties and; computer security for fraud management system architecture for next generation networks.

<table>
<thead>
<tr>
<th>Name</th>
<th>Nationality</th>
<th>Area of Study</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ifeoma C. Obidike</td>
<td>Nigeria</td>
<td>Pharmacology</td>
</tr>
<tr>
<td>Madelene Bello</td>
<td>Cameroon</td>
<td>Computer Science</td>
</tr>
<tr>
<td>Olutayo Kahinde</td>
<td>Nigeria</td>
<td>Computer Science</td>
</tr>
<tr>
<td>Salome Muruki</td>
<td>Kenya</td>
<td>Environmental Science</td>
</tr>
<tr>
<td>Ruth Odhiambo</td>
<td>Kenya</td>
<td>Chemistry Education</td>
</tr>
<tr>
<td>Rachel Muigai</td>
<td>Kenya</td>
<td>Civil Engineering</td>
</tr>
<tr>
<td>Jeanne de Waal</td>
<td>South Africa</td>
<td>Entomology</td>
</tr>
<tr>
<td>Dalene de Swardt</td>
<td>South Africa</td>
<td>Medical Virology</td>
</tr>
<tr>
<td>Valencia Jacobs</td>
<td>South Africa</td>
<td>Material Science</td>
</tr>
<tr>
<td>Kim Trollope</td>
<td>South Africa</td>
<td>Biotechnology</td>
</tr>
</tbody>
</table>
All these women had a common goal to harness indigenous knowledge for solving basic needs using science, technology and innovation for sustainable development of their countries in particular and Africa in general. The ANSTI Network is proud to be associated with this laudable venture.

Figure 1: Geographical Distribution of Postgraduate Fellows (1994-2011)

- Eastern Africa 39%
- West Africa 34%
- Southern Africa 19%
- Franco phone Africa 9%

Figure 2: Geographical Distribution of Fee paying Members in 2011

- Southern Africa 38%
- Southern Africa 31%
- Eastern Africa 27%
- Franco phone 4%
Organization of Conference of Vice-Chancellors, Deans of Science, Engineering and Technology (COVIDSET 2011)

COVIDSET 2011 was the fourth in the series on Conference of Vice Chancellor and Deans of Science and Technology and it will provide the podium for Vice Chancellors, Deans, Heads of Department, Private sector and Development Partners in Africa and the Diaspora to exchange ideas and experiences, share good practices as well as sensitize university leaders on new and emerging trends in science, engineering and technology to enhance Africa’s global competitiveness and the impact of high-level training and research on Africa’s development.

The road to Johannesburg for COVIDSET2011 was a long and winding one. By the end of October 2011, 208 participants from 27 countries had registered for the conference. The initial host university was Obafemi Awolowo University in Ile, Ife, Nigeria. The venue was however changed for reasons beyond the Network’s control, to Johannesburg, South Africa and co-hosted by the Durban University of Technology (DUT), under the leadership support of Professor Fredrick Otieno, Deputy Vice Chancellor and the Vice Chancellor of DUT.

COVIDSET 2011 was a great success and was attended by over 130 participants from 18 countries in Africa and the diaspora. This was the first COVIDSET to be attended by the Assistant Director General Science Sector of UNESCO and representative from the African Development Bank.

The aim of the conference was achieved by bringing together university leaders/policy makers, researchers, development partners and the private sector to deliberate on how to exploit African’s research and innovation capacities and capabilities to generate new products, processes and markets for its socio economic development as well as increase Africa’s global competitiveness under the theme: Harnessing Africa’s Scientific, Engineering and Technology Innovations for Sustainable Development: The Role of Universities.

It had four sub-themes on: Innovative use of science, engineering and technology in meeting the Millennium Development Goals, University–Private Sector– Donor Partner collaboration, Intellectual Property Rights and the State of Science and Engineering Universities in Africa. In addition there were parallel sessions on new and emerging trends in Nanotechnology, Climate Change Adaptation, Green Energy and Science and Technology Policy for sustainable development. Two workshops on Water and e-learning were also organized during the conference. The conference accomplished the following expected results by:

- Strengthening the capacity of university leaders responsible for science and technology teaching, researchers and private sector actors to exploit Africa’s available knowledge base, human resources in science and technology for sustainable development;

- Increasing the opportunity for Vice Chancellors and Deans to acquire skills to respond to challenges in new and emerging areas of science, engineering and technology;
• Providing the platform for participants to develop an Action Plan for harnessing science, engineering, technology, innovation and entrepreneurship capacity and capabilities in universities in Africa for sustainable socioeconomic development; and

• Strategies for strengthening Science and Technology Institutions in Africa were developed for follow up actions.

COVIDSET2011 built on previous ones while charting the way forward for collaboration and partnership in new and emerging areas of science, engineering, technology and innovation in Africa towards sustainable development of the continent and offered the opportunity for participants to network. Some of the key issues identified for further deliberations and actions were:

i Strengthening the capacity of science engineering and technology (SET) lecturers through training and retraining to respond to the emerging trends in SET;

ii Develop and review Teaching Pedagogy to make SET attractive to the youth

iii Promote gender equity;

iv Develop and disseminate SET training institutions with partnerships and exchange visits;

v Encourage the participation of governments and policy makers in University activities and;

vi Expose SET lecturers to emerging areas of SET among other.

COVIDSET 2011 also increased the visibility of the Network from the number of requests made and registrations received for the conference and publicity.
We are most grateful to Professor Otieno and his team from DUT for accepting to host the conference at short notice. We also appreciate the hard work of the OAU-Ile-Ife and the Local Organizing Committee under the chairmanship of Professor Michael Faborode, the immediate past Vice Chancellor of OUA, for all their efforts in preparing for the conference which unfortunately could not be hosted in Nigeria.

Financial Administration

In 2011, ANSTI received financial support from the following sources: the United Nations Educational, Scientific and Cultural Organization (UNESCO); the German Academic Exchange Service (DAAD) and; the L’Oreal Corporate Foundation. As in the past, each member of the basket of donors supports one or more of the Programme activities of the Network. The Dutch grant ended at the end of December 2010. Table 1 shows the allocation of funds by each donor.

As in the past, funds were co-administered by the Secretariat and the Donor Agencies. ANSTI received administrative services from UNESCO, DAAD and L’Oreal Corporate Foundation in the management of the funds provided. The funds from these donors were administered by their respective finance offices. UNESCO funded the administrative costs of the Secretariat. In addition, UNESCO contributed a substantial amount towards the organization of COVIDSET 2011. This fund was offered as sponsorship to cover the cost of economy class return air tickets, accommodation and incidental expenses for presenters and participants. DAAD was responsible for the management of funds for postgraduate fellowships which are usually disbursed through the German Embassies in the candidates’ host countries. The ANSTI Secretariat’s role was to receive and review applications, short-list and nominate candidates for the awards. The L’Oreal Corporate Foundation was also responsible for the management of the funds for the Regional Fellowships for Women in Science in sub-Saharan Africa. The role of ANSTI was to manage the applications, shortlist and submit complete dossiers to the Jury. The L’Oreal funds for the organization of Jury meeting and Workshop for Women in Science in Africa was administered by ANSTI Secretariat.

The Dutch Government grant (2002-2010) ended in December 2010. The Secretariat submitted a final report and a financial statement to the Dutch Government at the beginning of 2011. This report was approved and the donor was very happy with the way the funds were administered for the eight (8) years period. The savings that the Secretariat
Table 1: Estimated Allocation of funds for the implementation of ANSTI Activities

<table>
<thead>
<tr>
<th>No.</th>
<th>Source of Funds</th>
<th>Activity Funded</th>
<th>2011 (US$)</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>UNESCO</td>
<td>Administrative Costs: Support to COVIDSET, 2011</td>
<td>71,258.89</td>
<td>Sponsorship for participants to attend and present papers at COVIDSET 2011</td>
</tr>
<tr>
<td>2</td>
<td>The German Academic Exchange Service</td>
<td>Postgraduate fellowships (8 awards)</td>
<td>$242,000.00</td>
<td>8 fellowships awarded. Funds administered by DAAD</td>
</tr>
<tr>
<td>3</td>
<td>The German Academic Exchange Service</td>
<td>Grant for DAAD Alumni to attend COVIDSET 2011</td>
<td>$10,560.00</td>
<td>Money transferred to secretariat</td>
</tr>
<tr>
<td>4</td>
<td>L’Oreal Corporate Foundation</td>
<td>Fellowships for Women in Science</td>
<td>$200,000.00</td>
<td>10 Fellowships awarded. Funds administered by L’Oreal Corporate Foundation</td>
</tr>
<tr>
<td>5</td>
<td>L’Oreal Corporate Foundation</td>
<td>Compensation to ANSTI for administering the Fellowships</td>
<td>$13,972.00.00</td>
<td>Money sent to the Secretariat for administration costs</td>
</tr>
<tr>
<td>6</td>
<td>L’Oreal Corporate Foundation</td>
<td>Organisation of Jury meeting and Workshop on Women in Science in Africa</td>
<td>$40,711.60</td>
<td>Money sent to the Secretariat for administration</td>
</tr>
<tr>
<td>7</td>
<td>Member Institutions</td>
<td>Full time Secretariat staff</td>
<td>$6,747.37.00</td>
<td>Administered by UNESCO HQ</td>
</tr>
<tr>
<td></td>
<td>TOTAL</td>
<td></td>
<td>$634,689.86</td>
<td></td>
</tr>
</tbody>
</table>

COVIDSET 2011 and also sent to Headquarters to pay for the salaries of the support staff of the Secretariat. The funds which are collected by the Secretariat in the form of membership fees are held in an interest-bearing account managed by UNESCO Headquarters in Paris.

Table 2 outlines the various funds allocated to ANSTI Programme activities and the administrators of these funds for the year 2011.
Conclusion

The year under review has been challenging but exciting. For the first four months of this year the Secretariat has been without a Coordinator and the Director of UNESCO Nairobi office combined this assignment with that of ANSTI’s. We are pleased that UNESCO has offered to free the Senior Programme Specialist in Science and Technology to work on part-time basis for ANSTI and are grateful to UNESCO.

We are also pleased to inform members that all the activities outlined in 2010-2011 work plans have been carried out and many outputs achieved in cost effective manner. The climax of the year under review was the successful organization of the Conference of Vice Chancellors and Deans of Science and Technology (COVIDSET2011) despite all the odds.

Table 3: List of Postgraduate Fellowships awardees in 2011-2012

<table>
<thead>
<tr>
<th>No</th>
<th>Name of Fellow</th>
<th>Nationality</th>
<th>Degree Sought</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Mafa-Takisa Pedro</td>
<td>DRC</td>
<td>PhD in Applied Mathematics</td>
</tr>
<tr>
<td>2</td>
<td>Owusu Banahene Wiafe</td>
<td>Ghana</td>
<td>PhD in informatics</td>
</tr>
<tr>
<td>3</td>
<td>Mphatsi Lebojae Anthony</td>
<td>Lesotho</td>
<td>MSc Engineering</td>
</tr>
<tr>
<td>4</td>
<td>Fasan Oluwasola Mary</td>
<td>Nigeria</td>
<td>PhD in Computer Science</td>
</tr>
<tr>
<td>5</td>
<td>Baariu Andrew Mwiti</td>
<td>Kenya</td>
<td>PhD in Electrical Engineering</td>
</tr>
<tr>
<td>6</td>
<td>Ireka Ikenna Ebubechukwu</td>
<td>Nigeria</td>
<td>PhD in Applied Mathematics</td>
</tr>
<tr>
<td>7</td>
<td>Issifu Hamza</td>
<td>Ghana</td>
<td>MPhil. Forestry and Wood Science</td>
</tr>
</tbody>
</table>
Table 4: List of Postgraduate Fellowship awardees in 2010 – 2011

<table>
<thead>
<tr>
<th>No</th>
<th>Name of Fellow</th>
<th>Nationality</th>
<th>Degree Sought</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Mariam Nguvava</td>
<td>Tanzania</td>
<td>Masters in applied marine science</td>
</tr>
<tr>
<td>2</td>
<td>Malets’abisa Molapo</td>
<td>Lesotho</td>
<td>Masters in ICT</td>
</tr>
<tr>
<td>3</td>
<td>Kehinde A. Olurode</td>
<td>Nigeria</td>
<td>Ph.D Mathematics</td>
</tr>
<tr>
<td>4</td>
<td>Charles Fodya</td>
<td>Malawi</td>
<td>Ph.D Applied Mathematics</td>
</tr>
<tr>
<td>5</td>
<td>Emmanuel Liombo</td>
<td>Tanzania</td>
<td>Masters in Architecture</td>
</tr>
<tr>
<td>6</td>
<td>Olanrewaju B. Wajuola</td>
<td>Nigeria</td>
<td>Ph.D Electronic Engineering</td>
</tr>
<tr>
<td>7</td>
<td>Francis Addy</td>
<td>Ghana</td>
<td>Ph.D Computer-supported collaborative Learning in Tertiary Education</td>
</tr>
<tr>
<td>8</td>
<td>Mark Yao Arnegadzie</td>
<td>Ghana</td>
<td>Masters, Welding Engineering</td>
</tr>
</tbody>
</table>
## Appendices

### Appendix 1: List of Members in Good Standing – 2010-2011

<table>
<thead>
<tr>
<th>COUNTRY</th>
<th>Faculty/School/College</th>
<th>INSTITUTIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Angola</td>
<td>Faculty of Science, Eng and Tech</td>
<td>University of Angola</td>
</tr>
<tr>
<td>Botswana</td>
<td>Faculty of Engineering</td>
<td>University of Botswana</td>
</tr>
<tr>
<td></td>
<td>Faculty of Agriculture and Science</td>
<td>Botswana College of Agriculture</td>
</tr>
<tr>
<td></td>
<td>Faculty of Science and Technology</td>
<td>Botswana International University of Science and Technology</td>
</tr>
<tr>
<td>Cameroun</td>
<td>School of Public Works</td>
<td>National Advanced School of Public Works, Cameroun</td>
</tr>
<tr>
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<tr>
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<td>Covenant University</td>
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<td>University of Ibadan</td>
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<td>University of Akkar</td>
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<td>South Africa</td>
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<td>University of Kwazulu Natal</td>
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<td>Tshwane University of Technology</td>
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<td>University of South Africa</td>
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<td>Durban University of Technology</td>
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<tr>
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<td>University of Swaziland</td>
</tr>
<tr>
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<td>University of Dar es Salaam</td>
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<td>Mbeya Institute of Science and Technology</td>
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<tr>
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<td>Nelson Mandela African Inst. Of S &amp; T</td>
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<td>Uganda</td>
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<td>National University of Science and Technology</td>
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</tr>
<tr>
<td></td>
<td>Faculty of Science</td>
<td>Great Zimbabwe University</td>
</tr>
</tbody>
</table>
## Appendix II: List of ANSTI Governing Council Members

<table>
<thead>
<tr>
<th>No</th>
<th>NAMES AND ADDRESSES</th>
<th>REPRESENTING/ORGANISATION</th>
</tr>
</thead>
</table>
|    | Prof. George Albert Magoha  
Chairman, ANSTI Governing Council  
Vice Chancellor  
University of Nairobi  
P.O. BOX 30197 - 00100  
NAIROBI, Kenya  
Telephone: 0722-527933  
vc@uonbi.ac.ke;  
lchesoni@uonbi.ac.ke | Representative of Association of African Universities |
|    | Prof. Fredrick Ochieng Otieno  
Vice Chairman, ANSTI Governing Council and Deputy Vice Chancellor  
Durban University of Technology  
P.O. BOX 1334, DURBAN 4000  
South Africa  
Fax: 27-12-3825568  
Telephone: 27313732989  
Email: otienofao@dut.ac.za;  
faotieno@yahoo.com | Member Institution |
|    | Prof. Joseph G.M. Massaquoi  
Director, UNESCO Regional Office for Science and Technology in Africa  
P.O. BOX 30592, 00100  
NAIROBI, Kenya  
Joseph.Massaquoi@unesco.unon.org  
j.massaquoi@unesco.org | UNESCO-ROSTA |
|    | Dr. Peggy Oti-Boateng  
Senior Programme Specialist in Science & Technology, UNESCO-ROSTA  
P.O. BOX 30592, 00100  
NAIROBI, Kenya  
p.otiboateng@unesco.org | UNESCO-ROSTA |
<table>
<thead>
<tr>
<th>No</th>
<th>NAMES AND ADDRESSES</th>
<th>REPRESENTING/ORGANISATION</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Prof. Paul B. Vitta</td>
<td>Member</td>
</tr>
</tbody>
</table>
|    | ANSTI Governing Council  
P.O. Box 216-00621, Village Market,  
Nairobi, Kenya  
Telephone: (020) 712-4200  
pbvitta@yahoo.com |                         |
|    | Mr. Boniface Wanyama  | Host Country Representative |
|    | Officer in Charge, Science Sector  
Kenya National Commission for UNESCO  
P.O. BOX 72107 - 00200  
NAIROBI, Kenya  
Tel: 254-20-229053  
Fax: 254-20-213025  
bwwekesa@yahoo.com  
kncunesco@todays.co.ke |                         |
|    | Prof. Henrietta Sumbo Abiose  | Member Institution |
|    | Head of Department  
Food Science and Technology  
Obafemi Awolowo University  
Main Campus, 220002, Ille-Ife  
Osun State, Nigeria  
Telephone: 243-8033449734  
Email: sabiose@yahoo.co.uk  
sabiose@oauife.edu.ng |                         |
|    | Engr. Felix Atume  | Representative of The Federation of Organization of African Engineers (FAOE) |
|    | Secretary-General  
Federation of Organization of African  
FAOE, National Engineering Centre  
Off National Mosque, Labour House Road  
Central Business District  
ABUJA, Nigeria  
Mobile: +2348034099911  
Tel: 09-6735096  
atumefelix@yahoo.com |                         |
<table>
<thead>
<tr>
<th>No</th>
<th>NAMES AND ADDRESSES</th>
<th>REPRESENTING/ORGANISATION</th>
</tr>
</thead>
</table>
|    | Prof. (Mrs.) Francisca Okeke  
Dean  
Faculty of Physical Sciences  
University of Nigeria  
NSUKKA, Nigeria  
Email: franciscookeke@yahoo.com | Member Institution |
|    | Prof. Vincent A Ssembatya  
Dean, Faculty of Science  
Makerere University  
P.O. BOX 7062  
KAMPALA, Uganda  
Email: vas@math.mak.ac.u | Member Institution |
|    | Mr. Hansert Christophe  
Resident Representative  
DAAD Regional Office for Africa  
P.O. BOX 14050 – 00800  
Nairobi, Kenya  
hansert@daadafrika.org  
info@daadafrika.org | Donor Representative |
|    | Dr. Mahama Ouedraogo  
Executive Secretary  
Africa Union, Lagos Office  
NPA Building 4th Floor  
26/28 Marina, P.M.B. 2359  
Post Code 101001, LAGOS, Nigeria  
Tel: +23412798977  
Fax: +23412798976  
Email: OuedraogoM@africa-union.org  
mahamoo-strc@yahoo.com | African Union Representative |
|    | Dr. Annah Mandu Gasenelwe-Jeffrey  
Faculty of Engineering and Technology  
Electrical Engineering Department  
University of Botswana  
Private Bag UB 0061  
GABORONE, Botswana  
Email: Jeffrey@mopipi.ub.bw  
chair@wegsa.org | Member Institution |
<table>
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<tr>
<td></td>
<td>Prof. Edias Mwenje</td>
<td>Member Institution</td>
</tr>
<tr>
<td></td>
<td>Dean</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Faculty of Science</td>
<td></td>
</tr>
<tr>
<td></td>
<td>National University of Science and Technology</td>
<td></td>
</tr>
<tr>
<td></td>
<td>P.O. BOX AC 939, ASCOT</td>
<td></td>
</tr>
<tr>
<td></td>
<td>BULAWAYO, Zimbabwe</td>
<td></td>
</tr>
<tr>
<td></td>
<td><a href="mailto:emwenje@nust.ac.zw">emwenje@nust.ac.zw</a></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mr. Thierry Amoussougbbo</td>
<td>UNECA Representative</td>
</tr>
<tr>
<td></td>
<td>Regional Advisor, ISTD</td>
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<tr>
<td></td>
<td>Economic Commission for Africa</td>
<td></td>
</tr>
<tr>
<td></td>
<td>P.O. BOX 3001</td>
<td></td>
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<tr>
<td></td>
<td>ADDIS ABABA, Ethiopia</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Email: <a href="mailto:tamoussougbbo@uneca.org">tamoussougbbo@uneca.org</a></td>
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## Appendix III: Statement of activities and funds balance managed by ANSTI secretariat

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<th>Revenue</th>
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<td>Fund Balance from 2010</td>
<td>-$15,222.59</td>
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<td>Contribution for 2011</td>
<td>$749,794.07</td>
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<tr>
<td>DAAD - Postgraduate Fellowships</td>
<td>$242,000.00</td>
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<tr>
<td>L’Oreal Corporate Foundation</td>
<td>$200,000.00</td>
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<tr>
<td>L’Oreal Corporate Foundation</td>
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<tr>
<td>Dutch Final payment</td>
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<tr>
<td>Membership fees received in Nairobi</td>
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<tr>
<td>UNESCO contribution to COVIDSET CONTRIBUTION</td>
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<td>COVIDSET Registration Fees</td>
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<td>DAAD grant to COVIDSET 2011</td>
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<td>ANSTI Savings</td>
<td>79,347.08</td>
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<tr>
<td><strong>Total revenue 2011</strong></td>
<td><strong>$734,571.48</strong></td>
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</table>

| Expenses (including outstanding commitments) |   |   |
| Programme activities | $618,680.80 |
| * DAAD Postgraduate Fellowships | $242,000.00 |
| * L’Oreal Corporate Foundation | $200,000.00 |
| * L’Oreal Jury Meeting | $13,117.04 |
| * Workshop on promotion of Women in science | $18,030.84 |
| * Organization of COVIDSET 2011 | $68,707.91 |
| * UNESCO contribution to COVIDSET 2011 | $71,258.00 |
| * Support for DAAD Alumni | $5,567.01 |
| * Dissemination of Information | $10,395.69 |
| ** AJST printing back issues | $4,436.00 |
| ** Newsletter | $0.00 |
| ** Revamping ANSTI website | $2,500.00 |
| Annual reports printing | $3,459.69 |
| Governing Council | $0.00 |
| General Administration | $100,747.37 |
| General communication | $0.00 |
| Equipment, materials and supplies | $0.00 |
| Contribution to salary A/C at UNESCO HQ |   |   |
| *Membership Fees | $40,747.37 |
| *ANSTI Savings | $60,000.00 |
| **Total expenditure** | **$729,823.86** |
| Amount Carried forward | $4,747.62 |

Note: 1-Membership fees received by the Secretariat are sent to the ANSTI Account at HQ in Paris.
Appendix IV - Ansti Member Institutions (Engineering and Science Institutions)

**ANGOLA (1)**
Dean
Faculty of Science
Universidade Independante de Angola
LUANDA Angola

**BENIN (1)**
Doyen
Faculté des Sciences
Université Nationale du Bénin
B.P.526
COTONOU Bénin

Director
Institute de Mathematiques et de Sciences Physiques (IMSP)
P.B. 613
PORTO-NOVO Bénin

**BOTSWANA (4)**
Dean
Faculty of Science
University of Botswana
Private Bag 0022, GABORONE Botswana

Dean
Faculty of Engineering
Botswana Polytechnic
Private Bag 0022, GABORONE Botswana

Dean
Faculty of Agriculture
Botswana College of Agriculture
Private Bag 0027
GABORONE Botswana

Dean
Faculty of Science and Technology
Botswana International University of Science and Technology
Private Bag 8041Bontleng, GABORONE, Botswana

**BURKINA FASO (1)**
Directeur
Ecole Inter-Etat d’Ingenieurs de l’Equipement Rural
03 B.P. 7021
OUAGADOUGOU 03 Burkina-Faso
BURUNDI (1)

Doyen
Faculté des Sciences
Université du Burundi
B.P.1550
BUJUMBURA Burundi

CAMEROON (12)

Directeur
Centre National d’études et
d’Expérimentation du Machinisme
Agricole
B.P.1040, YAOUNDE Cameroon
Directeur
Ecole Nationale Supérieure
Polytechnique Université de Yaoundé
B.P.812, YAOUNDE Cameroon

Doyen
Faculté des Sciences
Université de Yaoundé
B.P.812
YAOUNDE Cameroon

Dean
Faculty of Science
University of Buea
P.O. BOX 63
BUEA Cameroon

Directeur
Institut National de Developpment
Rural
Centre Universitaire de Dschang
B.P. 96
DSCHANG, Cameroon

Director
National Advanced School of Public Works
(Ecole Nationale Supérieure des Travaux Publics (ENSTP)
B.P. 510 Yaounde Cameroun

Dean
Faculty of Engineering
University of Douala
B.P. 2071
DOUALA Cameroun
Dean
Faculty of Science
University of Douala
B.P. 2071
DOUALA Cameroun

Dean
Faculty of Engineering
University of Dschang
B.P. 96
DSCHANG
West Province Cameroun

Dean
Faculty of Science
University of Dschang
B.P. 96
DSCHANG
West Province Cameroun

Dean
Faculty of Science
The University of Maroua Cameroun

CONGO (2)
Doyen
Faculté des Sciences
Université Marien Ngouabi
B.P.69
BRAZZAVILLE Congo

Directeur
Institut Technologique
Université Marien Ngouabi
B.P.69
BRAZZAVILLE Congo

COTE D’IVOIRE (4)
Directeur
Ecole Supérieure Inter-africaine
d’Electricité
B.P.311
BINGERVILLE Côte d’Ivoire
Doyen
Faculté de Technologie
Université Nationale de la Côte d'Ivoire
01 B.P. V 34, ABIDJAN 01 Côte d'Ivoire

Doyen
Faculté des Sciences
Université Nationale de la Côte d'Ivoire
01 B.P. V 34, ABIDJAN 01 Côte d'Ivoire

Directeur
Institut National Supérieure de l'Enseignement Technique
B.P.1093
YAMOUSSOUKRO Côte d'Ivoire

DEMOCRATIQUE REPUBLIQUE DU CONGO(6)

Doyen
Faculté Polytechnique
Université de Kinshasa
B.P.255
KINSHASA XI DRC

Doyen
Faculté des Sciences
Université de Kinshasa
B.P.255
KINSHASA XI DRC

Doyen
Faculté Polytechnique
Université de Lubumbashi
B.P.1825
LUBUMBASHI DRC

Doyen
Faculté des Sciences
Université de Lubumbashi
B.P.1825
LUBUMBASHI DRC
Dean
Faculty of Engineering
University of Kisangani
(Centre Universitaire Extension de Bukavu)
B.P. 570, BUKAVU R.D. Congo

Dean
Faculty of Science
University of Kisangani
(Centre Universitaire Extension de Bukavu)
B.P. 570, BUKAVU R.D. Congo

ETHIOPIA (2)
Dean
Faculty of Science
Addis Ababa University
P.O. BOX 1176
ADDIS ABABA Ethiopia

Dean
Faculty of Technology
Addis Ababa University
P.O. Box 1176
ADDIS ABABA Ethiopia

GABON (2)
Directeur
Ecole Nationale Supérieure
d’Ingenieurs de Libreville
Université Omar Bongo
B.P.13131
LIBREVILLE, Gabon

Doyen
Faculté des Sciences
Université Omar Bongo
B.P.13131
LIBREVILLE Gabon

GAMBIA (1)
Dean
Faculty of Science
University of the Gambia
P.O. BOX 3530
Mdi Road, Serekunda
Kanifing, The Gambia
GHANA (5)

Dean
Faculty of Science
University of Cape Coast
CAPE COAST
Ghana Provost
College of Engineering
University of Science and Technology
University Post Office
KUMASI Ghana

Provost
College of Science
University of Science and Technology
University Post Office
KUMASI Ghana

Dean
Faculty of Science
University of Ghana
LEGON Ghana

Dean
Faculty for Development Studies
University for Development Studies
P.O. BOX 24
NAVRONGO Ghana

GUINEE (2)

Directeur
Centre de Recherche Scientifique
de Rogbane
MESRS
CONAKRY Guinée

Directeur
Institut Supérieure Polytechnique
Gamal Abdel Nasser
Université de Conakry
B.P.1147, CONAKRY
Guinée

KENYA (16)

Dean
Faculty of Engineering
University of Nairobi
P.O. Box 30197
NAIROBI
Kenya
Dean
Faculty of Science
University of Nairobi
P.O. Box 30197
NAIROBI
Kenya

Dean
Faculty of Engineering
Egerton University
P.O. BOX 536
NJORO
Kenya

Dean
Faculty of Science
Egerton University
P.O. BOX 536
NJORO
Kenya

Dean
Faculty of Engineering
Jomo Kenyatta University of
Agriculture and Technology
P.O. BOX 62000
NAIROBI, Kenya

Dean
Faculty of Science
Jomo Kenyatta University of
Agriculture and Technology
P.O. BOX 62000
NAIROBI, Kenya

Dean
Faculty of Technology
Moi University
P.O. BOX 3900
ELDORRET
Kenya

Dean
School of Science
Moi University
P.O. BOX 3900
ELDORET
Kenya

Dean
School of Science
Kenyatta University
P.O. BOX 43844
NAIROBI, Kenya

Dean
Faculty of Science
Maseno University
Private Bag
MASENO, Kenya

Dean
Faculty of Science and Technology
Daystar University
P.O. BOX 17, 90145
NAIROBI
Kenya

Dean
Faculty of Technology
Masinde Muliro University of Science and Technology
P.O. BOX 190
KAKAMEGA 50100
Kenya

Dean
Faculty of Science
Masinde Muliro University of Science and Technology
P.O. BOX 190
KAKAMEGA 50100
Kenya

Director
International Centre of Insect Physiology
And Ecology
P.O. BOX 30772-00100
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During the period of this report, UNESCO engaged a Senior Programme Specialist for Basic and Engineering Sciences and Science Policy for Sustainable Development (BES/SPD) in May, 2011 and to coordinate ANSTI activities. Dr (Mrs.) Peggy Oti-Boateng was the Director of the Technology Consultancy Centre of the Kwame Nkrumah University of Science and Technology, Kumasi, Ghana. Prior to this appointment she was engaged for six months in 2010 to assist Prof. Massaquoi in the coordination of the programmes of ANSTI.

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