

ANSTI

Annual Report

2011



The African Network of Scientific and Technological Institutions



Table of Contents

Message from the Chairman	
Message from the Coordinator.....	
List of Abbreviations and Acronyms	
Summary.....	
Brief History of ANSTI.....	
State of Membership	
Programme Activities and Accomplishments in 2011	
Award and administration of postgraduate training fellowships	
Award and Administration of the L'Oreal-UNESCO Fellowships for Women in Science in Sub-Saharan Africa.....	
Organization of Workshops and Meetings.....	
Publications and Dissemination of Science and Technology information.....	
Financial Matters	
Financial Administration	
Financial Statement 2011	
Conclusion.....	
Appendices.....	
I List of Member institutions in Good standing	
II List of ANSTI Governing Council Members	
III Financial Statement from the ANSTI Secretariat	
IV List of ANSTI Member Institutions	
V List of ANSTI Donors.....	
Personnel Matters	

Message from the Chairman

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.

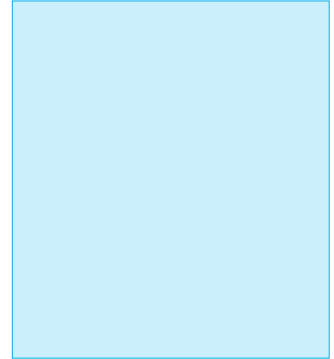
I would like to take this opportunity to thank all member institutions, our development partners and ANSTI staff members for another successful year. I would particularly want to acknowledge work the Director of UNESCO Professor Joseph Massaquoi who acted as Coordinator for three years when the Network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



*Prof. G. Magoha, Chairman
ANSTI Governing Council &
Vice-Chancellor of the University of
Nairobi, Kenya*

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.



Dr. Peggy Oti-Boateng
ANSTI Coordinator

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.
3. Faculty of Applied science Durban University of Technology
P.O. Box 1334, Durban 4000 South Africa
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).

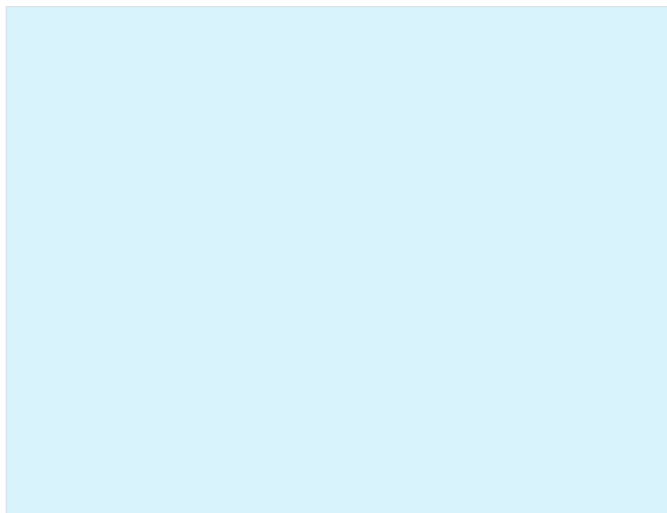


Fig. 3n The President of the Jury (Prof. Joseph G.M. Massaquoi) with the 2011 Award Winners

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 . Beneficiaries of the L'Oreal-UNESCO Regional Fellowship for Women in Science in sub-Saharan Africa.

Name	Nationality	Area of Study
Ifeoma C. Obidike	Nigeria	Pharmacology
Madelene Bella	Cameroon	Computer Science
Olutayo Kahinde	Nigeria	Computer Science
Salome Muriuki	Kenya	Environmental Science
Ruth Odhiambo	Kenya	Chemistry Education
Rachel Muigai	Kenya	Civil Engineering
Jeanne de Waal	South Africa	Entomology
Dalene de Swardt	South Africa	Medical Virology
Valencia Jacobs	South Africa	Material Science
Kim Trollope	South Africa	Biotechnology



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)

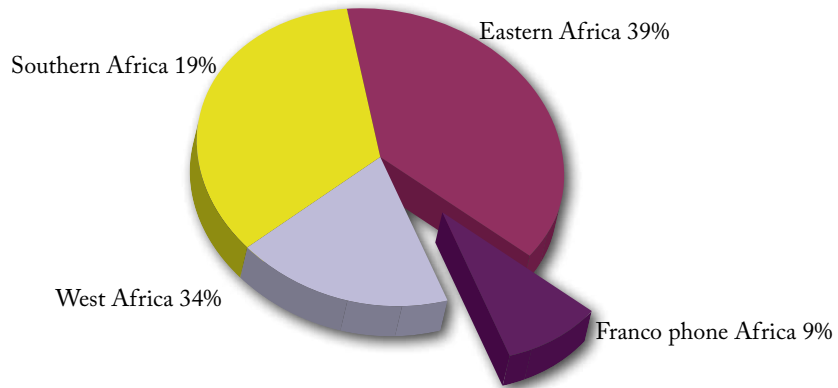
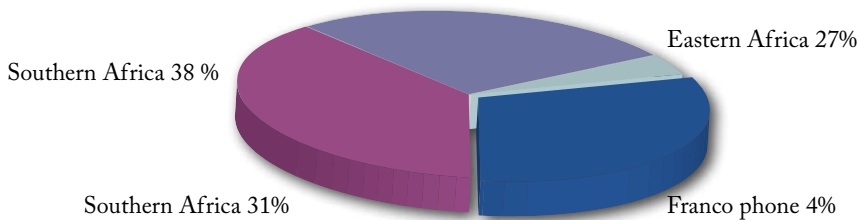


Figure 2: Geographical Distribution of Fee paying Members in 2011



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.



Participants at Conference of vice Chancellors and Deans of Science and Technology (CODIDSET 2011) Johannesburg, South Africa.

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, shortlist 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

No.	Source of Funds	Activity Funded	2011 (US\$)	Remarks
1	UNESCO	Administrative Costs Support to COVIDSET, 2011	71,258.89	Sponsorship for participants to attend and present papers at COVIDSET 2011
2	The German Academic Exchange Service	Postgraduate fellowships (8 awards)	\$242,000.00	8 fellowships awarded. Funds administered by DAAD
	The German Academic Exchange Service	Grant for DAAD Alumni to attend COVIDSET 2011	\$10,560.00	Money transferred to secretariat
4	L'Oreal Foundation	Corporate Fellowships for Women in Science	\$200,000.00	10 Fellowships awarded. Funds administered by L'Oreal Corporate Foundation
5	L'Oreal Foundation	Corporate Compensation to ANSTI for administering the Fellowships	\$13,972.00.00	Money sent to the Secretariat for administration costs
6	L'Oreal Foundation	Corporate Organisation of Jury meeting and Workshop on Women in Science in Africa	\$40,711.60	Money sent to the Secretariat for administration
7	Member Institutions	Full time Secretariat staff	56,747.37.00	Administered by UNESCO HQ
		TOTAL	\$634,689.86	

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.



Table 2: Funds Administration

No.	Donor/Funds	Administrator	Remarks
1	UNESCO	UNESCO Nairobi Office	Funds are disbursed by UNESCO, Finance Nairobi Office
2	Member Institutions	UNESCO Paris and ANSTI Governing Council	Funds are held by UNESCO Paris and disbursement as authorized by the ANSTI Governing Council.
3	(German Academic Exchange (DAAD)	DAAD Regional Office, Nairobi and the German Embassies in Africa	Disbursement made by DAAD through the German Embassy in the host country of the fellow.
5	L'Oreal Fellowship for Women in Science in Sub-Saharan Africa	L'Oreal Corporate Foundation	Funds administered by L'Oreal Corporate Foundation.
6	L'Oreal grant for Jury Meeting and Workshop for Women in Science in Sub-Saharan Africa	ANSTI Secretariat	Funds transferred to ANSTI Account in Nairobi.

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

No	Name of Fellow	Nationality	Degree Sought
1	Mafa-Takisa Pedro	DRC	PhD in Applied Mathematics
2	Owusu Banahene Wiafe	Ghana	PhD in informatics
3	Mphatsi Lebajoa Anthony	Lesotho	MSc Engineering
4	Fasan Oluwasola Mary	Nigeria	PhD in Computer Science
5	Baariu Andrew Mwiti	Kenya	PhD in Electrical Engineering
6	Ireka Ikenna Ebubechukwu	Nigeria	PhD in Applied Mathematics
7	Issifu Hamza	Ghana	MPhil. Forestry and Wood Science



Table 4: List of Postgraduate Fellowship awardees in 2010 – 2011

No	Name of Fellow	Nationality	Degree Sought
1	Mariam Nguvava	Tanzania	Masters in applied marine science
2	Malets'abisa Molapo	Lesotho	Masters in ICT
3	Kehinde A. Oluode	Nigeria	Ph.D Mathematics
4	Charles Fodya	Malawi	Ph.D Applied Mathematics
5	Emmanuel Liombo	Tanzania	Masters in Architecture
6	Olanrewaju B. Wojuola	Nigeria	Ph.D Electronic Engineering
7	Francis Addy	Ghana	Ph.D Computer-supported collaborative Learning in Tertiary Education
8	Mark Yao Amegadzie	Ghana	Masters, Welding Engineering

Appendices

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

COUNTRY	Faculty/School/College	INSTITUTIONS
Angola	Faculty of Science, Eng and Tech	University of Angola
Botswana	Faculty of Engineering	University of Botswana
	Faculty of Agriculture and Science	Botswana College of Agriculture
	Faculty of Science and Technology	Botswana International University of Science and Technology
Cameroun	School of Public Works	National Advanced School of Public Works, Cameroun
	Faculty of Science	University of Maroua
	Faculty of Science	University of Dschang
DR Congo		
	Faculty of Faculty of Sience	Universite de Bukavu
Ghana	College of Science	Kwame Nkrumah University of Science and Technology,
	College of Engineering	Kwame Nkrumah University of Science and Technology,
Kenya	Faculty of Engineering	University of Nairobi, NAIROBI
	Faculty of Science	Kenyatta University, NAIROBI
	Faculty of Science and Technology	Daystar University, NAIROBI
	Faculty of Engineering	Maseno University
	Faculty of Science	Kenyatta University
	Faculty of Science	Egerton University
	Faculty of Engineering	Masinde Muliro Univ. of S&T
	Faculty of Science	Bondo University College
Mali	Faculty of Science	University of Bamako
Malawi	Faculty of Engineering	University of Malawi
Namibia	Faculty of Science	University of Namibia, WINDHOEK
	Faculty of Engineering	The Polytechnic of Namibia
Nigeria	Faculty of Science	Obafemi Awolowo University, ILE IFE
	Faculty of Technology	Obafemi Awolowo University, ILE IFE
	School of Engineering T	Lagos State Polytechnic
	School of Technology	Lagos State Polytechnic
	Faculty of Technology	Federal University of Technology, AKURE
	Faculty of Science	Federal University of Technology, AKURE
	Faculty of Science	University of Agriculture, ABEOKUTA
	Faculty of Science	Redeemers University
	Faculty of Science	University of Nigeria, NSUKKA
	Faculty of Science	Ebonyi State University
	Faculty of Science	University of Ilorin
Nigeria	Faculty of Engineering	University of Ilorin
	Faculty of Eng & Tech.	University of Ilorin
	Faculty of Engineering	Nnamdi Azikiwe University
	Faculty of Science	Nnamdi Azikiwe University

COUNTRY	Faculty/School/College	INSTITUTIONS
	Faculty of Engineering	Covenant University
	Faculty of Science	University of Ibadan
	Faculty of Science	University of Mkar
	Faculty of Science	University of Benin
South Africa	Faculty of Engineering	University of Kwazulu Natal
	Faculty of Engineering	Tshwane University of Technology
	School of Engineering	University of South Africa
	Faculty of Applied Sciences	Cape Peninsula University of Technology
	Faculty of Engineering	University of Pretoria
	Faculty of Science	Walter Sisulu University
	Faculty of Science	Stellenbosch University
	Research Office	Durban University of Technology
Sierra Leone	Faculty of Engineering	University of Sierra Leone
	Faculty of Science	University of Sierra Leone
Swaziland	Faculty of Science	University of Swaziland
Tanzania	Faculty of Engineering	University of Dar es salaam
	Faculty of Science and Technology	Mbeya Institute of Science and Technology
	Faculty of Science	Nelson Mandela African Inst. Of S & T
Uganda	Faculty of Technology	Makerere University
	Faculty of Science	Kyambogo University
	Faculty of Engineering	Kyambogo University
	Faculty of Science	Busitema University
	Faculty of Science	Gulu University
Zimbabwe	Faculty of Science	National University of Science and Technology
	Faculty of Technology	National University of Science and Technology
	Faculty of Science	Great Zimbabwe University

Appendix II: List of ANSTI Governing Council Members

No	NAMES AND ADDRESSES	REPRESENTING/ORGANISATION
	<p>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</p>	<p>Representative of Association of African Universities</p>
	<p>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</p>	<p>Member Institution</p>
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	<p>Prof. Henrietta Sumbo Abiose Head of Department Food Science and Technology Obafemi Awolowo University Main Campus, 220002, Ile-Ife Osun State, Nigeria Telephone: 243-8033449734 Email: sabiose@yahoo.co.uk sabiose@oauife.edu.ng</p>	<p>Member Institution</p>
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	<p>Prof. Vincent A Ssembatya Dean, Faculty of Science Makerere University P.O. BOX 7062 KAMPALA, Uganda Email: vas@math.mak.ac.u</p>	Member Institution
	<p>Mr. Hansert Christophe Resident Representative DAAD Regional Office for Africa P.O. BOX 14050 – 00800 Nairobi, Kenya hansert@daadafrica.org info@daadafrica.org</p>	Donor Representative
	<p>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 mahamao-strc@yahoo.com</p>	African Union Representative
	<p>Dr. Annah Mandu Gasennelwe-Jeffrey Faculty of Engineering and Technology Electrical Engineering Department University of Botswana Private Bag UB 0061 GABORONE, Botswana Email: Jeffrey@mopipi.ub.bw chair@wega.org</p>	Member Institution



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	Mr. Thierry Amoussougbo Regional Advisor, ISTD Economic Commission for Africa P.O. BOX 3001 ADDIS ABABA, Ethiopia Email: tamoussougbo@uneca.org	UNECA Representative

Appendix III: Statement of activities and funds balance managed by ANSTI secretariat

Revenue		
Fund Balance from 2010		-\$15,222.59
Contribution for 2011		\$749,794.07
DAAD - Postgraduate Fellowships	\$242,000.00	
L'Oreal Corporate Foundation	\$200,000.00	
L'Oreal Corporate Foundation	\$54,682.00	
Dutch Final payment	\$26,145.73	
Membership fees received in Nairobi	\$56,747.37	
UNESCO contribution to COVIDSET CONTRIBUTION	71,258.00	
COVIDSET Registration Fees	9,053.89	
DAAD grant to COVIDSET 2011	10,560.00	
ANSTI Savings	79,347.08	
Total revenue 2011		\$734,571.48
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)

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 Université du Burundi
 B.P.1550
 BUJUMBURA Burundi

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 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

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 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
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 University of Douala
 B.P. 2071
 DOUALA Cameroun

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 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

Dean
 Faculty of Science
 Mavinga west Africa University
 Cameroun

CONGO (2)

Doyen
 Faculté des Sciences
 Université Marien Ngoubi
 B.P.69
 BRAZZAVILLE Congo

Directeur
 Institut Technologique
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 B.P.69
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 Ecole Supérieure Inter-africaine
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 Faculté des Sciences
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 DRC

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 Université de Kinshasa
 B.P.255
 KINSHASA XI DRC

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 KUMASI Ghana

Provost
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 University Post Office
 KUMASI Ghana

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 Faculty of Science
 University of Ghana
 LEGON Ghana

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 University for Development Studies
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 de Rogbane
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 Liberia

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 College of Science and Technology
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MAURITIUS (4)

Head
 School of Agriculture
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 REDUIT
 Mauritius

Head
 School of Engineering
 University of Mauritius
 REDUIT
 Mauritius

Head
 School of Industrial Technology
 University of Mauritius
 REDUIT
 Mauritius

Head
 School of Science
 University of Mauritius
 REDUIT
 Mauritius



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B.P. 1515
LOME, Togo
Directeur
Ecole Supérieure de Mécanique



UGANDA (8)

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Université du Bénin
B.P.1515, LOME, Togo

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Dean
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Gulu University
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Gulu University
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National University of Science
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P.O. BOX AC 939
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Appendix V: List of Donors

1. United Nations Educational Scientific and Cultural Organization (UNESCO)
P.O. Box 30592, Nairobi, Kenya
Email: Nairobi@unesco.org
The German Academic Exchange Service (DAAD)
Regional Office for Africa
Madison Insurance House
Upper Hill Road, off Ngong' Road
P.O. Box 14050, Nairobi, Kenya
Email: info@daadafrica.org

3. L'Oreal Corporate Foundation Enterprise
41 Rue Marte – 92117 Clichy Cedex
Paris, France

4. African Development Bank (AfDB)
ADB Temporary Relocation Agency (Tunis)
Ngle des trio rues, Avenue du Ghana
Rue Pierre de Coubertin
Rue Hedi Nouria
B.P. 1002, Tunis Velvedere
Tunisia

Personnel Matters

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.

The following are the staff of the Secretariat during the period under review:

ANSTI Staff

COORDINATOR

(PART-Time Service): Dr. Peggy Oti-Boateng
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