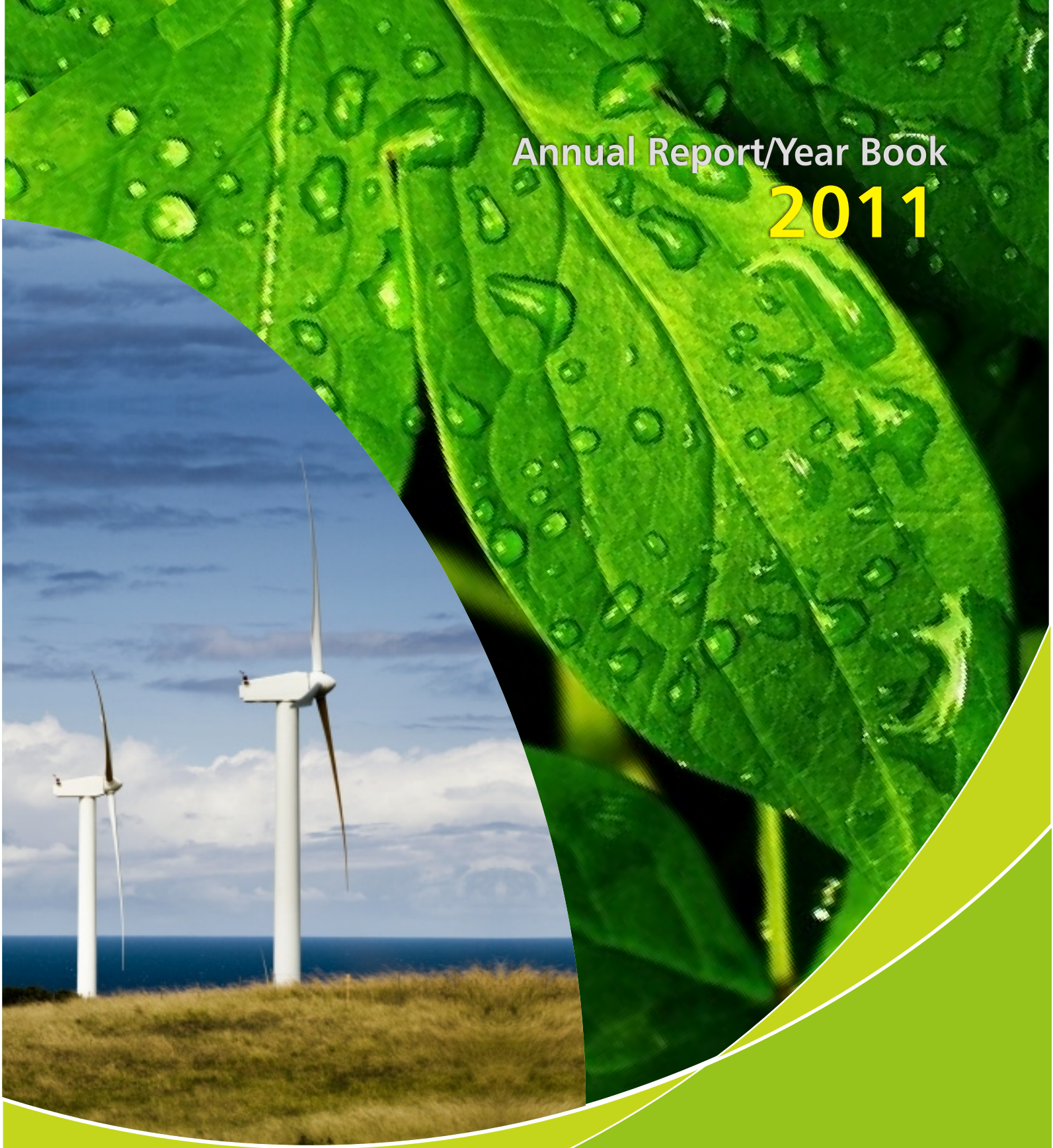


Annual Report/Year Book  
**2011**



**THE NIGERIAN ACADEMY  
OF SCIENCE**





## Foreword by the President

**O**n behalf of the Council of the Nigerian Academy of Science, It is a pleasure to present a synopsis of our activities in 2011. So much happened during the course of the year and this is simply a careful selection of some of what we think are the defining events of the year.

The Fellowship has grown with the addition of more distinguished scientists both locally and internationally. In addition, while Professor Adetokunbo Lucas FAS had his Foundation Fellow status restored by the AGM, the former President of the US National Academy of Science (USNAS), Professor Bruce Alberts, was inducted this year - we acknowledge his support for our Academy through the African Science Academy Development Initiative (ASADI) of the USNAS.

At the induction of new Fellows, a public lecture on 'The Changing nature of innovation and its implications for national development', was delivered by the Chief Economic Adviser of Nigeria (at the time), Professor Kassey Garba. She has been of tremendous support to the Academy and we owe her a debt of gratitude.

The Academy received the \$5 million special grant from President Goodluck Jonathan GCFR. This was in fulfilment of the promise earlier made by President Olusegun Obasanjo GCFR and confirmed by our late Grand Patron, President Umaru Musa Yar-Adua GCFR.

There are many more highlights as featured in this report. However, the year 2012 promises even more exciting challenges for the Academy. In particular, we shall be hosting the African academies and other international partner academies and organisations at the 8th annual meeting of African academies. This is to be between the 11th and 15th of November 2012 in Nigeria and will be addressing climate change issues in Africa.

The explosive progress of science and technology up to the 20th century brought prosperity and enriched the quality of life for mankind. It is difficult to predict the 21st century counterparts of quantum theory, the double helix and the internet. However, there is little doubt that advances in science and technology will continue to transform the way we live, create new industries and jobs and enable us to tackle seemingly intractable social and environmental problems. Furthermore, it is the innovation aspect of Science and Technology that makes our life more abundant. It is Science and Technology (S&T) that generates innovative products for the market place. But this takes planning and the results though fundamental are not achievable in short-term.

Sound scientific knowledge is fundamental to addressing the critical issues of economic transformation and globalization; reduction of unemployment, underemployment, poverty, hunger and disease, and the sustainable use of natural resources facing the world today. The world is changing at a rapid pace driven by science and technology, and the challenge of integrating science and technology into development is getting increasingly complex. However, the advance of science and technology raises important ethical, safety and environmental issues: possible negative applications are threatening mankind's own future. In that sense, the most pressing problems we face today include harmonizing economic development with global warming; preventing terrorism; controlling infectious diseases and assessing the potential health benefits and ethical factors relating to cloning. These are called the 'lights and shadows of science and technology.'

As we start the year, may I use this opportunity to thank the Fellows and staff, as well as all our partners around the world for their contributions that made 2011 successful. May I also wish you a prosperous new year! Contributions that made 2011 successful. May I also wish you a prosperous new year!

**Professor Oye Ibidapo-Obe FAS, OFR**  
President

## From the Executive Secretary



Looking back at the year 2011 fills my heart with thankfulness, for the support received from Fellows, staff and partners all over the world. We had serious challenges that threatened our ability to go through the year successfully. Particularly, at the secretariat, there were staffing issues that made us hold our breath. That said, here we are; the year has gone and we did get some amazing results.

Thankfully, the need for financial sustainability was addressed significantly with the receipt of an endowment grant from the President, Dr Goodluck Jonathan GCFR. More needs to be done and hopefully will be. In the same regard, we are grateful to all the organisations that provided support (in one form or the other) to the Academy this year the Federal Ministry of Science and Technology, US National Academy of Science (USNAS), Bill and Melinda Gates Foundation, Alliance for Health Policy and Systems Research (Alliance HPSR), Nigeria Liquefied Natural Gas Ltd (NLNG), Zinox Technologies, National Agency for Science and Engineering Infrastructure (NASENI), Raw Materials Research and Development Council (RMRDC), Inter-Academy Medical Panel (IAMP), Network of African Science Academies (NASAC) and the University of Lagos.

We look forward to carrying on some of the uncompleted projects this year while starting new ones too. We look forward to new projects this year in partnership with institutions like the US Department of State, Partnership for Appropriate Technologies in Health (PATH), and others who we hope will soon realise the value of such an esteemed institution as the Nigerian Academy of Science.

The secretariat owes a debt of gratitude to the President and other Fellows who were always there to give their support and encouragement to the secretariat. I salute the staff for their commitment and integrity as they pursue the realisation of the goals of NAS. Finally, thanks to everyone else who supported us one way or another in 2011. Thank you.

A handwritten signature in black ink, which appears to read 'M. Odubanjo'.

Dr M. Oladoyin Odubanjo  
Executive Secretary

## 1.0 The Nigerian Academy of Science

The Nigerian Academy of Science (NAS) is one of the oldest merit-based academies in sub-Saharan Africa, having been founded in 1977. The Academy has 42 Foundation Fellows, among a total Fellowship of 133 Fellows and 2 Foreign Fellows. The uniqueness of the Academy is the ability to promote scientific excellence as an independent and unbiased body capable of generating evidence-based science advice for the government and other stakeholders.

Being the foremost independent scientific institution in Nigeria, NAS represents the national scientific community on such bodies as the International Council for Science (ICSU), the Inter-Academy Panel (IAP), the Inter-Academy Medical Panel (IAMP) and the Network of African Science Academies (NASAC). NAS also collaborates with other science academies around the world.

### 1.1 Vision

The vision of the Academy is an improved quality of life for the Nigerian society through the promotion and application of science and technology.

### 1.2 Mission

The mission of the Academy is to strengthen the nation's ability to deliver the fruits of science to society by the acquisition, growth and dissemination of sound scientific knowledge and facilitation of its use in the solution of major national problems.

### 1.3 Aims and Objectives

The aims and objectives of the Academy are to promote the growth, acquisition and dissemination of scientific knowledge and to facilitate its use in the solution of major problems of national interest. The Academy does this by:

- Providing advice on specific problems of a scientific or technological nature presented to it by the government and its agencies, as well as by private organizations;
- Bringing to the attention of the government and its agencies problems of national interest that science and technology can help to solve; and
- Establishing and maintaining the highest standards of scientific endeavour and achievement in Nigeria, through:
  - organization of conferences, seminars, workshops and symposia
  - publication of journals and reports
  - recognition of outstanding contributions to science in Nigeria through awards and prizes
  - development of a working relationship with other national and international scientific bodies and academies.

### 1.4 Core values

The core values of the Academy include the following:

- merit
- pursuit of excellence
- credibility



- volunteerism
- service orientation
- evidence-based hallmark
- relationship-building
- commitment

## 2.0 NAS Governance/Management

### 2.1 The 35th Council

The affairs of the Academy are run by the Council which is chaired by the President. The 35th Council was inaugurated at the last Annual General Meeting held on the 22nd of January 2011. The membership of that Council is as follows:

1.	Professor Oye Ibidapo-Obe FAS	President
2.	Professor Joseph Okogun FAS	Vice-President
3.	Professor K. Mosto Onuoha FAS	Treasurer
4.	Professor Akinola M. Salau FAS	Academic Secretary (Physical Sciences)
5.	Professor M. Temitayo Shokunbi FAS	Academic Secretary (Biological Sciences)
6.	Professor Olaitan A. Soyannwo FAS	Foreign Affairs Secretary
7.	Professor Olusegun L. Oke FAS	Representative Physical Sciences
8.	Professor Domingo A. Okorie FAS	Representative Physical Sciences
9.	Professor Olusegun Adewoye FAS	Representative Physical Sciences
10.	Professor Gabriel K. Falade FAS	Representative Physical Sciences
11.	Professor Ikenna Onyido FAS	Representative Physical Sciences
12.	Professor Ekanem Braide FAS	Representative Biological Sciences
13.	Professor Oyebiodun G. Longe FAS	Representative Biological Sciences
14.	Professor Sunday A. Bwala FAS	Representative Biological Sciences
15.	Professor Adeyinka Afolayan FAS	Representative Biological Sciences
16.	Professor G.J. Fola Esan FAS	Representative Biological Sciences
17.	Professor Olusoga Sofola FAS	Chair, Publications Committee
18.	Professor Charles O. Wambebe FAS	Public Affairs Secretary
19.	Professor David U.U. Okali FAS	Immediate Past President

### 2.2 The Fellowship

The Nigerian Academy of Science is a merit-based organisation into which only a few distinguished scientists may be elected each year. The process of election begins with the nomination of a candidate by an existing Fellow of the Academy. The candidates are then rigorously assessed by the Sectional Committees of the Academy and subsequently, a shortlist of candidates is drafted by the Council. This final shortlist of candidates is presented for election at the Annual General Meeting and successful candidates are then inducted as Fellows of the Academy.

There were 27 new nominations and 16 rollover candidates (from 2010) considered for Fellowship in 2011, of which 16 were recommended to Council by the Sectional Committees. These were considered by the Council and a final shortlist of the 16 candidates was recommended to the 2012 AGM for election.

The Fellowship of the Academy currently consists of 133 Fellows and 2 Foreign Fellows covering all major fields of science, including medicine and engineering. Of the total number, 12 are women. (See appendix for list of Fellows).

## 2.3 The Secretariat



The activities of the Academy are implemented on a daily basis through her secretariat. At the end of 2011, NAS had ten staff:

**Dr Oladoyin Odubanjo**

Executive Secretary

**Mrs Scholastica Lan**

Programme Manager

**Dr Kikelomo Ogunsulire**

Project Officer

**Mr Abdulbaqi Shittu** (*seconded from the Federal Ministry of Science and Technology*)

Project Officer

**Miss Gertrude Ogieguata**

Project Officer

**Deola Awodele**

Project Intern

**Mr Samuel Shofuyi**

Finance Associate/ Assistant Administrative Manager

**Miss Mobolaji Dasaolu**

Administrative Officer

**Mrs Ifeoluwa Edawole**

Administrative Officer

**Mr Nicholas Ibeh**

Administrative Assistant



Two of the staff, Mrs Edawole and Miss Ogieguata, joined the Academy staff in the course of the year; Mrs Edawole had been an intern previously, and was retained having satisfactorily spent her compulsory national service (N.Y.S.C.) year at NAS.

The secretariat building (Academy House, 8A Ransome Kuti Road, University of Lagos, Lagos) was expanded to accommodate the growing staff and activities of the Academy. In expanding, a conference room and three offices were added to the existing building. Some landscaping work was also done while extensive renovation was carried out on the old part of the building. The expansion was achieved through the effort of Professors Oye Ibidapo-Obe FAS and Adetokunbo Sofoluwe FAS.

## 3.0 Highlights of 2011 Events

### 3.1 2010 Annual General Meeting

The 35th Annual General Meeting of the Academy was held on Saturday, the 22nd of January 2011 at the AHI Residence, Jibowu, Lagos and had 41 Fellows in attendance.

At the AGM, the auditors' report of NAS accounts was received and the 35th Council (see list above) was inaugurated. Seven distinguished scientists were elected into the Fellowship of NAS as follows:



AGM 2011 - from left-Prof's Gadzama, Ogunmola, Umaru Shehu, Ibidapo-Obe, Osuide, Damachi, Animalu and Dr Odubanjo

- (i) **Professor Kaoje Abubakar FAS** A biochemist with particular expertise in enzymology. He was the Minister of Science and Technology at the time of election.
- (ii) **Professor Isaac Adewole FAS** He is the current Vice-Chancellor of the University of Ibadan and a Consultant Obstetrician and Gynaecologist. He is a leading advocate of cervical screening in the country.
- (iii) **Professor Babajide Alo FAS** Professor of Chemistry at the University of Lagos and is a specialist in Organic Chemistry with special interest in Heterocyclic Chemistry and organic toxicants in the environment.
- (iv) **Professor Chinedum Babalola FAS** She is a Professor of Pharmaceutical Chemistry/Pharmacokinetics at the University of Ibadan. Her work has been mainly on drug analysis and pharmacogenetics, in a bid to study how to optimize therapy in black people.
- (v) **Professor Boniface Egboka FAS** Professor Egboka is a Hydrogeologist with educational training at Nsukka-Nigeria and Waterloo-Canada. His interest is in the management of water resources and environmental sustainability.
- (vi) **Professor Obioma Nwaorgu FAS** She is a Professor of Parasitology and has conducted studies to demonstrate the effectiveness of age-related targeted chemotherapy and has worked actively with the Roll Back Malaria Unit of the WHO.
- (vii) **Professor Adetokunbo Sofoluwe FAS** He is the Vice-Chancellor of the University of Lagos and a Professor of Computer Science. His research has been on modelling and numerical solutions of real life problems.

Also at the AGM, Professor Adetokunbo Lucas had his Foundation Fellow status restored. He is a renowned international public health expert, a member of the Institute of Medicine of the US National Academy of Sciences and was granted Knight Grand Cross (First Class) of the Most Admirable Order of Direkgunabhorn by the King of Thailand. He is an Adjunct Professor of International Health at the Harvard University, USA.

### 3.2 Induction of New Fellows

The above new Fellows of the Academy were inducted at a ceremony held at the Reiz Continental Hotel, Abuja-Nigeria on 12th of May 2011. In attendance were the Honourable Ministers of Agriculture and National Planning, Professor Sheikh Abdullahi and Dr Shamsudeen Usman respectively. The Chairman of the occasion was the Head of Service of the Federation, Professor Oladapo Afolabi.



Newly inducted Fellows (standing) with members of the high table

The induction was preceded by a public lecture on *'The changing nature of innovation and its implications for economic development'*. The lecture was delivered by Professor Kassey Garba who was the Chief Economic Adviser to the President of the Federal Republic of Nigeria.

Also inducted (at a private ceremony in Denver, United States), as a Foreign Fellow of the Nigerian Academy of Science, is Professor Bruce Alberts; this was on the 6th of December 2011. He is a Professor of Biochemistry and Molecular Biology and a former President of the United States National Academy of Sciences.



Prof Oye Ibidapo-Obe FAS with Prof Bruce Alberts at the induction of Prof Alberts in the U.S.

### 3.3 First General Assembly of the Nigerian Young Academy (NYA)

The first General Assembly and conference of the Nigerian Young Academy was successfully held at the Federal University of Technology, Owerri (FUTO) from the 23rd to the 25th of May 2011. The theme of the conference was 'Building the nation through research excellence and integrity'. At the General Meeting, principal officers of the NYA were elected as follows:

- |                         |  |
|-------------------------|--|
| (i) Dr E.I. Unuabonah   | - Redeemers University, Mowe - <i>President</i>                          |
| (ii) Dr A.J. Akindele   | - University of Lagos, Lagos - <i>Vice-President</i>                     |
| (iii) Dr O.S. Sojину    | - Redeemers University, Mowe - <i>General Secretary</i>                  |
| (iv) Dr O.O. Osemingie  | - Landmark University, Omu-Aran - <i>Treasurer</i>                       |
| (v) Dr A.O. Eseola      | - Redeemers University, Mowe - <i>Publicity Secretary</i>                |
| (vi) Dr L.I. Nwankwo    | - University of Ilorin, Ilorin - <i>Financial Secretary</i>              |
| (vii) Dr T.N. Obiekezie | - Nnamdi Azikiwe University, Awka - <i>Logistics/ Technical Director</i> |

The Nigerian Academy of Science was represented at the conference by Professor Oyewale Tomori FAS and Professor Cyril Onwuliri FAS, who was the Vice-Chancellor of FUTO. Also in attendance was the President of the Nigerian Academy of Education, Professor Otonti Nduka. FUTO and NASAC provided support for the event.





NAS President (4th from left) with other guests at the public presentation of the Agric-Nutrition report

### 3.4 Public Presentation of Agric-Nutrition Report

Having successfully held a workshop addressing the apparent gap between agriculture and nutrition in the country on the 30th of November and 1st of December 2011, a report of the workshop deliberations was published and disseminated.

Subsequently, a media event to disseminate the contents of the report was held on the 25th of August 2011 in Lagos. At the event, Professor Grace Longe FAS presented briefly the perspective of an agriculturist on linking the two sectors while Professor Tola Atinmo presented a nutritionist's perspective.

The event was well attended by media representatives and stakeholders from the nutrition and agriculture sectors. Also in attendance were Dr Gloria Elemo, the Director-General of the Federal Institute of Industrial Research Oshodi (FIIRO) and the Director-General of the National Space Research and Development Agency (NARSDA), Dr Seidu Mohammed.

### 3.5 Meeting with National Science Associations



Representatives of national science associations at a meeting with NAS leadership at the NAS secretariat

In a bid to foster a closer working relationship with the national science associations in the country, NAS invited the representatives of the associations to a meeting at the NAS secretariat on the 28th of April 2011. The meeting discussed the need to work together to develop science, technology and innovation in the country. The representatives expressed their delight and willingness to collaborate more with NAS as the peak independent scientific body in the country. They also asked that this becomes a regular event that will ensure that the scientific community speaks with one voice to the government.

At the meeting, the ICSU (International Council for Science) National Committee was launched and comprises representatives of the science associations present; it is chaired by Professor Gabriel Ogunmola FAS.

The science associations represented at the meeting are the Botanical Society of Nigeria, Pharmaceutical Society of Nigeria, Association of Public Health Physicians of Nigeria, Nigerian Mining and Geosciences Society, Nigerian Veterinary Association, Nutrition Society of Nigeria, Nigerian Society of Chemical Engineers, Nigerian Society of Biochemistry and Molecular Biology, Nigerian Mathematical Society, Nigerian Society of Microbiology, and the Chemical Society of Nigeria.

### **3.6 Public Lecture on Nigeria's Mineral Resources**

As part of the 35th AGM activities, a public lecture was held at the Nigerian Institute of Medical Research (NIMR) on the 21st of January, 2011. The lecture, titled 'Nigeria's mineral resources for wealth, industry, infrastructure and life' was delivered by Professor Siyanbola Malomo FAS, the Director-General of the Nigerian Geological Survey Agency.

The lecture, which highlighted the vast mineral resources in Nigeria and their potential use, was chaired by the former Governor of Ondo State, Dr Olusegun Agagu.

## **4.0 Engaging the Government**

### **4.1 The PREVIEW Project**

The 'Policy Research Evidence for Effective Working of Nigerian Health Systems' (PREVIEW) project entails the development of the capacity of policymakers and managers within the Lagos State Health sector to make evidence-based policies. In that regard, the Academy contracted the Health Policy and Research Group (HPRG) of the University of Nsukka to develop training manuals as well as facilitate training workshops and policy retreats. Advisers to the project are Professor Ed 'B Attah FAS and Dr Leke Pitan (former Commissioner of Health in Lagos State).

The first training of policymakers took place on the 22nd and 24th of March 2011 and was followed by a policy retreat (with a focus on malaria control in Lagos State) which was held on the 8th and 9th of June 2011.

The project is funded by the Alliance Health Policy and Systems Research (Alliance HPSR) of the WHO, a successful proposal having been made in response to a joint call by the Alliance HPSR and Wellcome Trust.

### **4.2 Accreditation of the Agencies of the FMST**

The Academy was commissioned by the Federal Ministry of Science and Technology (FMST) to accredit the parastatals/agencies under her jurisdiction. This is in a bid to ensure that the said agencies were fulfilling their mandates and that they are poised to contribute to the transformation agenda of the federal government.

For this, the Academy constituted accreditation teams consisting of experts (Fellows and non-Fellows) who visited the institutions, assessed relevant documents and interviewed staff. In all, 19



agencies were so visited. Subsequently, the team reports were submitted to the NAS secretariat for compilation and submission of a final report to the Ministry.

In all, 9 agencies were given full accreditation (for 5 years); 4 agencies received an interim accreditation for 2 years and 5 got interim accreditation requiring another visit in 1 year.

#### 4.4 AU-TWAS Young Scientists National Award

The second edition of the AU-TWAS Young Scientists National Award, administered by the Academy, was won by Dr Mayowa Owolabi, a neurologist at the University College Hospital, Ibadan and Dr Emmanuel Iyayi of the Department of Chemistry at the Redeemers' University, Mowe. Dr Owolabi and Iyayi won the Earth and Life Sciences and the Basic Sciences Awards respectively. There were 26 entries in all for this year's awards.

The Awards were presented to the winners by the Permanent Secretary of the Federal Ministry of Science and Technology, Dr Dere Awosika, at a ceremony held at the Scientific Equipment Development Institute (SEDI), Enugu, Nigeria on the 9th of September 2011 (African Union Day).

The award entails collaboration with the Federal Ministry of Science and Technology, African Union (AU) and the Academy of Sciences for the Developing World (TWAS). The Awards comprise of \$5000 cash each and a certificate of recognition.

### 5.0 Engaging the Private Sector

#### 5.1 The Nigeria Science Prize

Although the 6th edition of the prestigious Nigeria Science Prize (\$100,000 cash award) had no winner, there were 26 entries. After a rigorous assessment by the panel of judges and external assessors, it was decided that none of the entries should be awarded the prize in 2011.

The Nigeria Science prize is a product of collaboration between the Nigerian Academy of Science and the Nigeria Liquefied Natural Gas (NLNG) Ltd.

#### 5.2 NAS Media Awards

Mr Onche Odeh of the Daily Independent Newspaper was awarded the prestigious NAS Science Print-Journalist of the year prize. Mr Odeh, who is also the President of the Nigerian Association of Science Journalists (NASJ), received his award at a ceremony held at the Sheraton Hotel and Towers in Lagos on the 20th of December 2011. The prize was presented to him by Chief Leo Stan Ekeh, the Chairman of Zinox Technologies Ltd while Mrs Nonye Onyechi delivered a goodwill message on behalf of Professor Segun Adewoye FAS, the Director-General of the National Agency for Science and Engineering Infrastructure (NASENI). There was no winner for the Science Broadcast-Journalist prize.



*Media award-use caption as in newsletter*

The 2011 edition of the NAS Media Awards were supported by Zinox Technologies Ltd, Raw Materials Research and Development Council (RMRDC) and NASENI.

As part of the ceremony, a lecture titled "Making science front page news" was delivered by Mr Diran Onifade, the President of the African Federation of Science Journalists. Mr Onifade is also the Publisher of the Africa Science Technology and Innovation News (AfricaSTI) and a former Vice-President of the World Federation of Science Journalists.

## 6.0 International Activities

NAS continued to forge ahead in ensuring that the Nigerian science community is appropriately represented at important international science gatherings. The Academy has also continued her effort to build strong relationships with other academies and international institutions. Some highlights of NAS' international engagements are below:



*NAS delegates meet their Ghanaian counterpart at a meeting to discuss mutual collaboration between both institutions*

### 6.1 Partnering with the Ghanaian Academy of Arts and Sciences

Members of the Nigerian Academy of Science and the Ghanaian Academy of Arts and Sciences (GAAS) met on the 7th of April 2011 in Accra, Ghana to discuss collaboration to address issues in the sub-region of West Africa. The delegation from NAS, led by the President (Professor Oye Ibidapo-Obe FAS), had been meeting in Accra to plan NAS' hosting of the 8th annual meeting of African academies in November 2012.

Professor Francis Allotey FGA, the President of GAAS, hosted NAS to a dinner meeting where it was decided that mutual areas of interest and possible collaboration will be addressed in a MoU to be signed by both academies in due time. In particular, climate change was considered a topical issue that both academies could start to jointly address.

### 6.2 7th Annual Conference of African Science Academies

The seventh annual meeting of African science academies and conference was hosted, in Kampala on 13-16 of November 2011, by the Uganda National Academy of Sciences (UNAS). The conference, which was on 'Aid effectiveness in the Africa's health sector', was attended by participants from the continent and the world.

The conference was preceded, on the 13th of November, by an ASADI board meeting where the ASADI-participating African academies made presentations to the ASADI board. This was followed on the next day with a collaborative learning session where participants exchanged knowledge about how to host successful annual meetings of the African academies.

The NAS delegation to the annual meeting comprised the Past President (Professor David Okali FAS), Treasurer (Professor Mosto Onuoha FAS), Foreign Secretary (Professor Olaitan Soyannwo FAS), Executive Secretary (Dr Doyin Odubanjo), Dr. Ngozi Azodoh (Deputy Director, Federal Ministry of Health) and two other NAS staff members (Dr. Kike Ogunsulire and Mrs Ife Edawole).



### 6.3 NASAC General Assembly

The general meeting of NASAC (Network of African Science Academies) was held on the 17th of November 2011. The new NASAC Strategic Plan (2011-2015), developed by a committee led by the NAS President, was adopted at the meeting. The President of NAS, Professor Oye Ibidapo-Obe FAS is the Vice-President of NASAC.

A new programme of collaboration between NASAC (and consequently, the African academies) and the German national academy of science, the Leopoldina, was announced to commence by 2012 and would last for three years.

### 6.4 ICSU General Assembly

The 30th General Assembly of the International Council for Science (ICSU) was held in Rome, Italy and was hosted at the headquarters of the United Nations' Food and Agriculture Organisation (FAO) from the 26th to 30th of September 2011. The NAS delegation to the meeting comprised the President, Professor Oye Ibidapo-Obe FAS and Professor Gabriel Ogunmola FAS.

Professor Gabriel Ogunmola, was nominated as a representative of NAS but narrowly lost the bid to become an Ordinary Member of the ICSU Executive Committee due to the voting structure.

### 6.5 IAMP YPL Conference

The Inter-Academy Medical Panel (IAMP) invited national academies to nominate two young physicians each to attend a Young Physician Leaders workshop in Berlin, Germany on the 21st and 22nd of October 2011; the workshop was to develop their leadership skills via mentoring by an international group of physician-leaders. They also attended the Global Health Summit in Berlin from the 23rd to the 26th of October 2011. In all, 20 young physician-leaders under the age of 40 years were selected globally to attend these meetings. The Nigerian Academy of Science was the only academy which had both her nominees selected to attend the meetings.

The NAS nominees were Dr. Anthony Oyekunle (a member of the Nigerian Young Academy) of the Obafemi Awolowo University, Ile-Ife, and Dr. Mayowa Owolabi of the University College Hospital, Ibadan.

## 7.0 Members News

**Professor Adetokunbo Lucas FAS** A book, 'The man: Adetokunbo Lucas', by his family, friends and colleagues was launched in Ibadan on the 26th of November in his honour. He was 80 years old on the 25th of November 2011.

**Professor Olusegun Oke FAS** Was conferred with the national honour of the 'Order of the Federal Republic' (OFR) on the 14th of November, 2011.

**Professor Deborah Ajakaiye FAS** Was conferred with the

'Distinguished Professor' award by the National Universities Commission on the 12th of December, 2011.

**Professor Yetunde Olumide FAS** Presented, on the 21st of September 2011, her newly published textbook of Dermatology titled 'Textbook of skin diseases and sexually transmitted infections' published by HEBN Publishers.

**Professor Oyewale Tomori FAS** Retired as the Vice-Chancellor of the Redeemers University Nigeria on the 31st of July, 2011.

**Professor Haroon O. Tejumola FAS** died on the 25th of December 2011 in the United States. He was buried in Ilesa, Nigeria on the 5th of January 2012. The Academy was represented at the burial.





# A P P E N D I X

# A P P E N D I X A

## Past Presidents of NAS

<b>Past President</b>	<b>Tenure</b>
1. Professor V.A. Oyenuga	1977-1978
2. Professor C.A. Onwumechili	1979-1980
3. Professor Umaru Shehu	1981-1982
4. Professor E.U. Emovon	1983-1984
5. Professor A.N.U. Njoku-Obi	1985-1986
6. Professor I.O. Oladapo	1987-1988
7. Professor C.I.O. Olaniyan	1989-1990
8. Professor A.I.I. Ette	1991-1992
9. Professor A.A. Adegbola	1993-1994
10. Professor Awele Maduemezia	1995-1996
11. Professor Lateef A. Salako	1997-1998
12. Professor Anya O. Anya	1999-2000
13. Professor Alex O.E. Animalu	2001-2002
14. Professor Gabriel B. Ogunmola	2003-2006
15. Professor D.U.U. Okali	2006-2008
16. Professor Oye Ibidapo-Obe	2009-to date



## A P P E N D I X B

### List Of Fellows Since Inception

1. Professor A.A. Adegbola
2. Professor O.S. Adegoke
3. Dr. I.A. Akinrele
4. Professor J.B.E. Awachie
5. Professor O. Awe
6. Professor O. Bassir
7. Professor M.O. Chijioke
8. Professor E.U. Emovon
9. Professor A.I.I. Ette
10. Professor A. Fabiyi
11. Professor T.I. Francis
12. Professor T.A. Ige-Grillo
13. Professor Awele Maduemezia
14. Professor Chike Obi
15. Professor A.U. Ogan
16. Professor T.O. Ogunlesi
17. Professor B.N. Okigbo
18. Professor C.A. Onwumechili
19. Chief A.M. Oseni
20. Professor B.O. Osuntokun
21. Professor M.O. Oyawoye
22. Professor V.A. Oyenuga
23. Professor Ayodele Tella
24. Professor S.A. Toye
25. Professor F.M.A. Ukoli
26. Dr. P.I. Amenechi
27. Professor A.N.U. Njoku-Obi
28. Professor B.K. Adadevoh
29. Professor I.O. Oladapo
30. Professor C.I.O. Olaniyan
31. Professor Iya Abubakar
32. Professor E.A. Yoloye
33. Professor S.O. Alasoadura
34. Professor J.O.C. Ezeilo
35. Professor G.E. Osuide
36. Professor B.O. Osunkoya
37. Professor F.A.O. Odekwu
38. Professor D.E.U. Ekong
39. Professor H.C. Kodilinye
40. Professor Umaru Shehu
41. Professor A.E. Boyo
42. Professor Adetokunbo Lucas
43. Professor S.N.C. Okonkwo
44. Professor Anya O. Anya
45. Professor Nduka Okafor
46. Professor J.I. Okogun
47. Professor C.O. Enwonwu
48. Professor T.A. Taylor
49. Professor O.O. Akinkugbe
50. Professor A.O.E. Animalu
51. Professor J.C. Edozien
52. Professor D.E. Ajakaiye
53. Professor A. Olubummo
54. Professor C.O. Orangun
55. Professor L.A. Salako
56. Professor T.S. David-West
57. Professor O.J. Eze-Uzomaka
58. Professor S.O. Iyahan
59. Professor G.J.F. Esan
60. Professor S.E. Okoye
61. Professor A.M.A. Imevbore
62. Professor J.C. Amazigo
63. Professor C.A. Kogbe
64. Professor A.O. Adesola
65. Professor H.E. Enahoro
66. Professor C.O. Okafor
67. Professor C. Nwokolo
68. Professor G.A. Makanjuola
69. Professor G.B. Ogunmola
70. Professor A. Adeloye
71. Professor A.O. Ewwaraye
72. Professor O.L. Oke
73. Professor J.A. Faniran
74. Professor K.A. Harrison
75. Professor V.O.S. Olunloyo
76. Professor D.U.U. Okali
77. Professor A.O. Kuku
78. Professor S.A. Adekola
79. Professor E.M. Essien
80. Professor J.Y. Yayock
81. Professor Idris Mohammed
82. Professor G.O. Ezekwe

83. Professor D.T. Okpako
84. Professor E.E. Okon
85. Professor Oyewale Tomori
86. Professor H.O. Tejumola
87. Professor A.D.W. Acholonu
88. Professor J.M. Aminu
89. Professor O. Ransome-Kuti
90. Professor E.D. Mshelia
91. Professor P.O. Okonkwo
92. Professor Mark Nwagwu
93. Professor A.A. Susu
94. Professor P.O. Ngoddy
95. Professor N.M. Gadzama
96. Professor Tolu Odugbemi
97. Professor G.O. Olaniyan-Taylor
98. Professor B.O. Nnaji
99. Professor V.E. Aimakhu
100. Professor O. Osuntokun
101. Professor E.O. Anosike
102. Professor E.U. Odigboh
103. Professor P.N. Okeke
104. Professor K.M. Onuoha
105. Professor Ed. 'B. Attah
106. Professor C.E. Okeke
107. Professor R.I. Salawu
108. Professor C.O.N. Wambebe
109. Professor Y.M. Olumide
110. Professor T.A.I. Akeju
111. Professor E.E. Ene-Obong
112. Professor A.O. Esogbue
113. Professor S.W. Petters
114. Professor A.S. Sambo
115. Professor G.I. Ekeke
116. Professor P.J. Egbelu
117. Professor S. Mustafa
118. Professor G.O. Ajayi
119. Professor L. Salimonu
120. Professor A. Anusiem
121. Professor S.A. Bwala
122. Professor A.O. Coker
123. Professor O. Ekundayo
124. Professor A.O. Falase
125. Professor O. Ibadapo-Obe
126. Professor T.T. Isoun
127. Professor Timothy Obi
128. Professor I.F. Adu
129. Professor I. Akinsete
130. Professor G.K. Falade
131. Professor D.A. Okorie
132. Professor B.O. Onadeko
133. Professor B. Osotimehin
134. Professor A.M. Salau
135. Professor O.A. Sofola
136. Professor O.A. Soyannwo
137. Professor E.I. Braide
138. Professor A. Afolayan
139. Professor S.A. Ilori
140. Professor E.C. Okafor
141. Professor M.T. Shokunbi
142. Professor C.E. Chidume
143. Professor A.O. Akanji
144. Professor G.N. Egbunike
145. Professor Charlse Ume
146. Professor N.D. Briggs
147. Professor O.O. Adewoye
148. Professor O.G. Longe
149. Professor W. Soboyejo
150. Professor O.A. Bamiro
151. Professor M.A.C. Aghaji
152. Professor Olukayode Dada
153. Professor Ikenna Onyido
154. Professor Michael U. Adikwu
155. Professor Tom A. Aire
156. Professor Adeyinka G. Falusi
157. Professor Rotimi A. Oderinde
158. Professor A.P. Onwualu
159. Professor C.O.E. Onwuliri
160. Professor O. Sodeinde
161. Professor Nicholas A. Damachi
162. Professor Abba B. Gumel
163. Professor Siyanbola Malomo
164. Professor Francisca Nneka Okeke
165. Dr. Sonny F. Kuku
166. Professor Mohammed K. Abubakar
167. Professor Babajide Alo
168. Professor Chinedum Peace Babalola
169. Professor Boniface C.E. Egboka
170. Professor Obioma C. Nwaorgu
171. Professor Adetokunbo Babatunde Sofoluwe
172. Professor Isaac F. Adewole
173. Professor Ahmed Zewail - Foreign Fellow
174. Professor Bruce Alberts - Foreign Fellows



# A P P E N D I X C

## Current Fellowship List

	<i>Name</i>	<i>Specialty</i>	<i>Sex</i>	<i>Year Inducted</i>
1	ABUBAKAR, Iya (Prof)	Mathematics	Male	FF
2	ABUBAKAR, Mohammed Ka'oje (Prof)	Biochemistry	Male	2011
3	ACHOLONU, Alexander D.W. (Prof)	Parasitology & Microbiology	Male	1992
4	ADEGOKE, O. Sylvester (Prof)	Geology	Male	FF
5	ADEKOLA, Sulaiman A. (Prof)	Electrical & Electronics Engineering	Male	1990
6	ADELOYE, A (Prof)	Medicine	Male	1987
7	ADEWOLE, Isaac Folorunso (Prof.)	Obstetrics & Gynaecology	Male	2011
8	ADEWOYE, Olusegun O. (Prof)	Materials Science	Male	2007
9	ADIKWU, Michael U. (Prof)	Pharmacy & Pharmaceutics	Male	2008
10	ADU, Israel F. (Prof)	Animal Nutrition	Male	2004
11	AFOLAYAN, Adayinka (Prof)	Enzymology & Protein Science	Male	2006
12	AGHAJI, Martin A.C. (Prof)	Thoracic & Cardiac Surgery & Medicine	Male	2007
13	AIRE, Tom A. (Prof)	Veterinary Medicine	Male	2008
14	AJAKAIYE, Deborah Enilo (Prof)	Physics	Female	1980
15	AKANJI, Abayomi O. (Prof)	Endocrinology & Metabolic Medicine	Male	2007
16	AKEJU, Timothy A.I. (Prof)	Civil Engineering	Male	2000
17	AKINKUGBE, Oladipo Olujimi (Prof)	Medicine	Male	1980
18	AKINRELE, I.A. (Dr)	Industrial Biotechnology	Male	FF
19	AKINSETE, Ibronke (Prof)	Medicine	Female	2006
20	ALO, Babatunde Ibitayo (Prof)	Chemistry	Male	2011
21	AMAZIGO, John Chukwuemeka (Prof)	Mathematics	Male	1985
22	AMINU, Jibril Muhammadu (Prof)	Medicine	Male	1992
23	ANIMALU, Alexander Obiefoka Enukaora (Prof)	Physics & Mathematics	Male	1980
24	ANOSIKE, Emmanuel O. (Prof)	Enzymology & Protein Chemistry	Male	1998
25	ANUSIEM, Alphonso C.I. (Prof)	Chemistry	Male	2004
26	ANYA, Anya O. (Prof)	Zoology	Male	1979
27	ATTAH, Edward 'B. (Prof)	Human Pathology	Male	1999
28	AWE, Olumuyiwa (Prof)	Physics	Male	FF
29	BABALOLA, Chinedum Peace (Prof)	Pharmacy & Pharmacokinetics	Female	2011
30	BAMIRO, Olufemi Adebisi (Prof)	Mechanical Engineering	Male	2008
31	BRAIDE, Ekanem Ikpi (Prof)	Parasitology & Epidemiology	Female	2006
32	BRIGGS, Nimi Dimkpa (Prof)	Medicine	Male	2007

	<i>Name</i>	<i>Specialty</i>	<i>Sex</i>	<i>Year Inducted</i>
33	BWALA, S.A. (Prof)	Medicine (Neurology)	Male	2004
34	CHIDUME, C.E. (Prof)	Mathematics	Male	2006
35	CHIJOKE, Mark O. (Prof)	Electrical & Electronics Engineering	Male	FF
36	COKER, AO (Prof)	Parasitology & Microbiology	Male	2003
37	DADA, Olukayode (Prof)	Medicine	Male	2008
38	DAMACHI, Nicholas A. (Prof)	Industrial Engineering & Science Public Policy	Male	2010
39	EGBELU, Pius J. (Prof)	Engineering	Male	2002
40	EGBOKA, Boniface C.E. (Prof)	Hydrogeology	Male	2011
41	EGBUNIKE, Gabriel N. (Prof)	Animal Science	Male	2007
42	EKUNDAYO, O. (Prof)	Chemistry	Male	2004
43	EMOVON, Emmanuel U. (Prof)	Chemistry	Male	FF
44	ENAHORO, Henry E. (Prof)	Mechanical Engineering	Male	1985
45	ENE-OBONG, Efiom E. (Prof)	Plant Breeding & Crop Biotechnology	Male	2000
46	ENWONWU, Cyril Obiora (Prof)	Medicine	Male	
47	ESAN, George Joseph Folayan (Prof)	Medicine	Male	1979
48	ESOGBUE, Augustine O. (Prof)	Intelligent Systems & Control Engineering	Male	1982
49	ESSIEN, Etim Moses (Prof)	Haematology in Haemostasis	Male	2000
50	ETTE, A.I.I. (Prof)	Physics	Male	1990
51	EVWARAYE, Andrew O. (Prof)	Medicine	Male	FF
52	EZEILO, James Okoye C. (Prof)	Mathematics	Male	1987
53	EZE-UZOMAKA, Osondu John (Prof)	Civil Engineering	Male	FF
54	FALADE, Gabriel Kayode (Prof)	Petroleum Engineering	Male	1981
55	FALASE, A.O. (Prof)	Medicine & Cardiology	Male	2006
56	FALUSI, Adeyinka G. (Prof)	Haematology	Female	2004
57	FANIRAN, Joshua Ajadi (Prof)	Chemistry	Male	2009
58	GADZAMA, Njidda M. (Prof)	Zoology	Male	1988
59	GUMEL, Abba B. (Prof.)	Mathematics	Male	1997
60	IBIDAPO-OBE, Oyewusi (Prof)	Stochastic Control & Info. Systems Engineering	Male	2010
61	ILORI, Samuel Akindiji (Prof)	Mathematics	Male	2004
62	IMEVBORE, Anthony Malamo.A. (Prof)	Zoology	Male	2006
63	ISOUN, Turner T. (Prof)	Veterinary Medicine	Male	1983
64	IYAHEN, Sunday Osarumwense (Prof)	Mathematics	Male	2004
65	KOGBE, Cornelius Adedapo (Prof)	Geology	Male	1981
66	KUKU, Aderemi Oluyomi (Prof)	Mathematics	Male	1985

	<i>Name</i>	<i>Specialty</i>	<i>Sex</i>	<i>Year Inducted</i>
67	KUKU, Sonny Folorunso (Dr)	Endocrinology	Male	2010
68	LONGE, Oyebiodun Grace (Prof)	Nutritional Biochemistry	Female	2007
69	LUCAS, Adetokunbo	International Health	Male	FF
70	MADUEMEZIA, Awele (Prof)	Physics	Male	FF
71	MAKANJUOLA, Gabriel Ayodele (Prof)	Agricultural Engineering	Male	1986
72	MALOMO, Siyanbola (Prof)	Geology	Male	2010
73	MOHAMMED, Idris (Prof)	Medicine/Immunology	Male	1990
74	MSHELIA, Elijah D. (Prof)	Theoretical Nuclear Physics	Male	1994
75	MUSTAFA, Salihu (Prof)	Civil & Water Resource Engineering	Male	2002
76	NGODDY, Patrick Obi (Prof)	Agricultural & Food Engineering	Male	1996
77	NNAJI, Bartholomew O. (Prof)	Industrial Engineering	Male	1997
78	NWAGWU, Mark (Prof)	Zoology	Male	1994
79	NWAORGU, Obioma (Prof)	Parasitology & Entomology	Female	2011
80	NWOKOLO, Chukwuedu (Prof)	Medicine	Male	1986
81	OBI, Timothy U. (Prof)	Veterinary Medicine	Male	2004
82	ODERINDE, Rotimi A. (Prof)	Industrial Chemistry	Male	2009
83	ODIGBOH, Emmanuel Uche (Prof)	Agricultural Engineering	Male	1998
84	ODUGBEMI, Tolu (Prof)	Parasitology & Microbiology	Male	1997
85	OGAN, Agu U. (Prof)	Biochemistry	Male	FF
86	OGUNLESI, Theophilus Oladipo (Prof)	Medicine	Male	FF
87	OGUNMOLA, Gabriel Babatunde (Prof)	Biophysical Chemistry Biotechnology	Male	1987
88	OKAFOR, Charles Okolo (Prof)	Chemistry	Male	1986
89	OKAFOR, Emmanuel C. (Prof)	Chemistry	Male	2006
90	OKAFOR, Nduka (Prof)	Microbiology	Male	1979
91	OKALI, David Uke Ukiwe (Prof)	Forest Biology, Environment & Conservation	Male	1989
92	OKE, Olusegun Ladimeji (Prof)	Nutritional Chemistry	Male	1988
93	OKEKE, C.E. (Prof)	Physics	Male	1999
94	OKEKE, Francisca Nneka (Prof)	Geomagnetism & Conospheric Physics	Female	2010
95	OKEKE, Pius N. (Prof)	Physics	Male	1998
96	OKIGBO, Bede Nwoye (Prof)	Agronomy	Male	FF
97	OKOGUN, Joseph Ibomein (Prof)	Organic & Natural Products Chemistry	Male	1979
98	OKON, Ephraim Efiog (Prof)	Engineering Science	Male	1991
99	OKONKWO, Paul O. (Prof)	Pharmacology	Male	1994
100	OKORIE, Domingo Amechi (Prof)	Chemistry	Male	2006



	<i>Name</i>	<i>Specialty</i>	<i>Sex</i>	<i>Year Inducted</i>
101	OKPAKO, David Tinakpoewan (Prof)	Pharmacology	Male	1991
102	OLANIYAN-TAYLOR, G. Oladunni (Prof)	Chemical Pathology	Female	1997
103	OLUMIDE, Yetunde Mercy (Prof)	Dermatology Medicine	Female	2000
104	OLUNLOYO, Vincent Olusegun S. (Prof)	Engineering	Male	1989
105	ONADEKO, Babatunde Owolabi (Prof)	Respiratory Medicine	Male	2006
106	ONUOHA, Kalu Mosto (Prof)	Pure & Applied Geophysics	Male	1998
107	ONWUALU, Peter Azikiwe (Prof)	Agricultural Power & Machinery	Male	2009
108	ONWULIRI, Celestine O.E. (Prof)	Zoology & Parasitology	Male	2009
109	ONWUMECHILI, Cyril Agodi (Prof)	Physics	Male	FF
110	ONYIDO, Ikenna (Prof)	Mechanistic & Bioorganic Chemistry	Male	2008
111	ORANGUN, Cornelius Oluwasade (Prof)	Civil & Structural Engineering	Male	1981
112	OSOTIMEHIN, Babatunde (Prof)	Medicine	Male	2006
113	OSUIDE, Gabriel Ediale (Prof)	Neuropharmacology	Male	FF
114	OSUNTOKUN, Olabepo (Prof)	Medicine/Ophthalmology	Female	1998
115	OYAWOYE, Mosobalaje Olaloye (Prof)	Geology	Male	FF
116	PETTERS, S.W. (Prof)	Geology	Male	2000
117	SALAKO, Lateef Akinola (Prof)	Medicine	Male	1981
118	SALAU, Akinola Muritala (Prof)	Solid State Physics & Devices	Male	2006
119	SALAWU, R.I. (Prof)	Electronics & Electrical Engineering	Male	1999
120	SAMBO, Abubakar S. (Prof)	Mechanical Engineering	Male	2002
121	SHEHU, Umaru (Prof)	Health Resources & Management	Male	FF
122	SHOKUNBI, M. Temitayo (Prof)	Developmental Neurosciences & Paediatric Neurosurgery	Male	2006
123	SOBOYEJO, Winston O. (Prof)	Materials Science	Male	2007
124	SODEINDE, O. (Prof)	Paediatrics	Male	2009
125	SOFOLA, Olusoga A. (Prof)	Parasitology	Male	2006
126	SOFOLUWE, Adetokunbo B. (Prof)	Computer Science	Male	2011
127	SOYANNWO, Olaitan A. (Prof)	Anaesthesia	Female	2006
128	SUSU, Alfred A. (Prof)	Chemical Engineering	Male	1994
129	UME, Charles (Prof)	Mechanical Engineering	Male	2007
130	WAMBEBE, Charles O. (Prof)	Pharmacology	Male	1999
131	YAYOCK, Joseph Yusuf (Prof)	Agriculture	Male	1990
132	YOLOYE, Emmanuel Ayotunde (Prof)	Science Education	Male	FF
<b>FOREIGN FELLOWS</b>				
133	ALBERTS, Bruce (Prof) (Foreign Fellow)	Biochemistry/Molecular Biology	Male	2011
134	ZEWAIL, Ahmed (Prof) (Foreign Fellow)	Chemistry	Male	2010