

ANNUAL REPORT

2010



**THE NIGERIAN ACADEMY  
OF SCIENCE**



## Foreword by the President



Once again, it is my pleasure to present this report on the activities of the Nigerian Academy of Science to Council and the entire Fellowship at the Annual General Meeting of 22nd January, 2011. The details are in this report.

Up to date, there are 165 Fellows of the Academy since inception and there are currently 125 Fellows who are alive. The Fellowship was started in 1977 with 41 Foundation Fellows, out of which 16 of them are alive. Talking about our Foundation Fellows, we need to recognize them in a bigger way than we have done hitherto. It could be incorporated in a larger NAS 'Hall of Fame' to bring alive and into our consciousness the 'labours of our heroes past'. This will be different from the NLNG project and should be one of our projects for the year 2011.

We made remarkable progress in the 2010; from the strategic mobilization of our Fellows to participate in our activities through the efforts to get a NAS Bill enacted by the National Assembly to the award by the Honourable Minister of Science and Technology, Professor M.K. Abubakar to NAS to start off the process of accreditation of research institutions under the purview of the Ministry.

We have secured the assurances of the Vice-Chancellor of the University of Lagos, Professor A.B. Sofoluwe, to add on a befitting 100-seater conference room plus 3 additional offices to our current premises. Apart from the expanded facility that will enable us to hire additional project staff for Agriculture, Engineering/Technology etc; it will free up our Barikisu Iyede office and possibly generate additional funding for our operations.

It is important for me to thank all our Fellows for the support that I continue to receive from all of them especially Council and Past Presidents. I want to thank our Acting Executive Secretary and the secretariat for their enthusiasm, hard work and loyalty. Let me state that with the support of the Past Presidents, especially Professor Emeritus Lateef Salako FAS, Professor Awele Maduemezia FAS, and Professor Umaru Shehu FAS all the 'doors of opportunities' open easily for our Academy and that is also true for all Fellows. These are 'Good People in a Great Country' and so are we all Fellows of the Academy!

It has been a very busy but rewarding year for the Academy as we progress steadily in mainstreaming the Academy to National Life for the improved welfare of the Nigerian Society. We need to strengthen our Sectional Committees and encourage 'impact studies' on thematic areas of our public life Energy, Food Security, Environment, Health, Science Education, et.al. Our theme for 2012 ASADI Conference is 'Global Change'. Our engagement with the private sector especially our Corporate Partners will be reinforced. The primary objective is to encourage focused endowment and make each of our partners emulate Nigeria LNG.

The young Academy programme as well as our internationalization (ICSU, IAP, IAMP, TWAS, et al) has been boosted with the core support of Professor Oyewale Tomori FAS and Professor O.A. Soyannwo FAS, Past President Professor G.B. Ogunmola FAS, Professor Israel Adu FAS and Professor G.J.F. Esan FAS. I thank them all for their 'labour of love'.

The year 2011 will be exciting scientifically and the Academy shall fully participate in a few of the scientific expectations such as the total eradication of malaria, the unfolding of epidemic intelligence, as well as the celebrations on the year of chemistry. Our Academy will be more aggressive in developing and winning proposals for local challenges as food security, human security, health effectiveness and efficiency, quality education, energy, environment et al.

As a carryover from the 2010 Annual Report; I still envisage a situation in 2011 where each of the Fellows of the Academy will be encouraged to write a short note on how his/her seminal work(s) over the years had impacted or can impact directly in the Nigerian Society. The outlet/vehicle for this dissemination shall be called 'The Nigerian Science Notes: Quarterly Letters on Science and Society'. The ETF will be most willing to provide support for this and other refereed publications.

If science is going to be enabled to accelerate progress in our new unfolding dispensation, the science and technology sector should be brought to bear on the deliberations, decisions, and outcomes of the FEC (Federal Executive Council), State and Local Governments, and the National Assembly.

One of our greatest challenges is sustainable funding - Whilst we continue to pursue the Endowment process, NAS Bill, procure and undertake projects, we need to explore the possibility of getting as many of the parastatals of the FMST, FME (especially the universities, FMoH and FMAg to provide NAS with annual funding through their budgets.

Finally, I want to thank those institutions (ASADI, NASENI, ECN, RMRDC, NLNG, PFIZER, ZINOX, CHAMS, VITAFOAM, et.al) that continues to support us financially and otherwise. We need to harvest more of these favours in 2011 within the context of our vision and mission.

Thank you and God bless.

O. Ibidapo-Obe FAS, OFR  
Professor & President



## From the Executive Secretary



It is my pleasure to present the 2010 Annual Report of the Nigerian Academy of Science (NAS). This is a compendium of the activities we engaged in during the course of the year. We have tried to select a variety of activities/events which show the mission and impact of NAS. As we tried to maintain the usual activities, we also ventured into new terrains and worked with new partners but, thankfully, all worked out at the end. We made further inroads in the international science community as NAS was elected into the executive committee of the Inter-Academy Medical Panel and got a Vice-Presidency position at the Network of African Science Academies (NASAC).

We could not have accomplished what we did this year without the support received from certain organisations and persons of which I will mention a few. The US National Academies (Dr Patrick Kelley, Dr Lauren Alexander-Augustine, Mr Jim Banihashemi, Mr Ijeoma Emenanjo, and Mr Christian Acemah) has continued to be a strategic partner in all our endeavours. It was a pleasure working with the US Department of State (Dan Schar and Andrew Hebbeler) on the IDSR project. On the same project, we had to work with the Civilian Research and Development Foundation (Ms Polina Rumyantseva and Ms Afrin Khan) as the grant managers on behalf of the US Department of State. Another pleasurable experience was engaging the Alliance HPSR (of the WHO) and Wellcome Trust as we started the PREVIEW project.

Pfizer Pharmaceuticals partnered with us to work more with a rare breed (science journalists) resulting in our having three media roundtables and the award of science reporting prizes. Not to be left out are NLNG, Save the Children and the Bill and Melinda Gates Foundation. We did receive a lot of cooperation and support locally from the Federal Ministries and Agencies, Lagos State Ministry of Health, and others.

The vision of the Academy is to help present scientific solutions to national problems in order to better the quality of life of Nigerians. I think we achieved this in some ways this year. In doing this, it must be mentioned that the paradigm shift among Fellows was a major factor. Many volunteered their time and other resources to provide service as the Academy demanded. The Council, led by Professor Oye Ibidapo-Obe, gave inspirational leadership and direction. The staff stretched to adapt to the changing and challenging demands that the projects placed on them.

The critical role of the civil society in national development has been recognised. For Nigeria to move to the category of developed nations, she needs the input of institutions like the Nigerian Academy of Science. It is hoped that this report will help stimulate greater support for the Academy by the government. It is also hoped that private sector organisations will begin to see how partnering with the Academy could form part of their social responsibility at the least.

As we look forward to a new year, we look forward to new projects and new partners. I also invite you to keep in touch with the Academy by visiting [www.nas.org.ng](http://www.nas.org.ng), our website which is fast evolving into a useful resource in the scientific community. I hope you enjoy reading about the Academy in this report and that will encourage you to do something or do more to support the Academy! Lastly, do not forget to give us some feedback on the value of this report. Thank you and happy reading!

Dr M. Oladoyin Odubanjo  
Acting Executive Secretary



## 1.0 The Nigerian Academy of Science

The Nigerian Academy of Science (NAS) established 34 years ago, is the second oldest merit-based academy in sub-Saharan Africa. The Academy, which started with 41 Foundation Fellows, has now grown to 126 Fellows (current membership). The uniqueness of the Academy is in her outstanding scholarship with 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 academy in Nigeria, NAS represents the national scientific community on such bodies as the International Council on Science (ICSU) and the Inter-Academy Panel (IAP). NAS also collaborates with other science academies around the world.

### 1.1 Vision

The vision of the Academy is to enable an improved quality of life for the Nigerian society through the promotion and application of sound 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 strives to do 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:
  - o publication of journals and reports
  - o organization of conferences, seminars, workshops and symposia
  - o recognition of outstanding contributions to science in Nigeria
  - o 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
- excellence
- credibility
- volunteerism
- commitment



## 2.0 NAS Governance/Management

### 2.1 The 34th Council

The affairs of the Academy are run by the Council which is chaired by the President. The 34th Council was inaugurated at the last Annual General Meeting held on the 23rd of January 2010. The membership of that Council is as follows:

1.	Professor Oye Ibidapo-Obe	President
2.	Professor Joseph I. Okogun	Vice-President
3.	Professor K. Mosto Onuoha	Treasurer
4.	Professor Akinola M. Salau	Academic Secretary (Physical Sciences)
5.	Professor M. Temitayo Shokunbi	Academic Secretary (Biological Sciences)
6.	Professor Olaitan A. Soyannwo	Foreign Affairs Secretary
7.	Professor Olusegun L. Oke	Representative, Physical Sciences
8.	Professor Olusegun A. Adewoye	Representative, Physical Sciences
9.	Professor G.K. Falade	Representative, Physical Sciences
10.	Professor I. Onyido	Representative, Physical Sciences
11.	Professor Ephraim E. Okon	Representative, Physical Sciences
12.	Professor Adeyinka Afolayan	Representative, Biological Sciences
13.	Professor E.O. Anosike	Representative, Biological Sciences
14.	Professor Ekanem Braide	Representative, Biological Sciences
15.	Professor Oyebiodun G. Longe	Representative, Biological Sciences
16.	Professor Sunday A. Bwala	Representative, Biological Sciences
17.	Professor Olusoga A. Sofola	Chair, Publications Committee
18.	Professor Charles O. Wambebe	Public Affairs Secretary
19.	Professor David U.U. Okali	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 the Council. A final shortlist of candidates is presented for election at the Annual General Meeting. Successful candidates are then inducted as Fellows of the Academy.

There were 22 new nominations for Fellowship received during this year's nomination process out of which 15 were recommended to Council by the Sectional Committees (Mathematical & Physical Sciences, Chemical Sciences, Engineering & Space Sciences, Biological Sciences, Agricultural Sciences, Health Sciences, Environmental & Earth Sciences). These were considered by the Council along with the 12 previously shortlisted candidates from 2009 and a final shortlist made. The final shortlist of candidates for election at the 2011 AGM consists of 27 candidates for Fellowship.

The Fellowship of the Academy is now made of 126 Fellows covering all major fields of science, including medicine and engineering. Of the total number, 10 are female. (See appendix for a list of Fellows since inception).



Fellows at the 2010 AGM



## 2.3 The Secretariat

The activities of the Academy are implemented on a daily basis through her secretariat. At the end of 2010, NAS had nine core staff. In the course of the year, Miss Adedamola Badejo (Research Assistant) resigned her position to pursue further studies. The core staff are:

**Dr. M. Oladoyin Odubanjo**

Acting Executive Secretary

**Mrs Scholastica Lan**

Programme Manager

**Dr Kikelomo Ogunsulire**

Project Officer

**Mr Samuel Shofuyi**

Finance Associate/ Assistant Administrative Manager

**Miss Mobolaji Dasaolu**

Administrative Officer (Communications)

**Mr Nicholas Ibeh**

Administrative Assistant

**Mrs Bola Akinrele**

Research Intern

**Miss Ifeoluwa Olayokun**

Administrative Intern

**Mr Abdulbaqi Shittu**

Project Officer (seconded from the Federal Ministry of Science and Technology)

Progress was made in ensuring adequate office accommodation for the Academy both in Lagos and Abuja. The Vice-Chancellor of the University of Lagos has agreed to expand the office given to the Academy by the university. This has been followed with an architectural drawing of the planned expansion which is to consist of a conference room and an additional three offices. (see appendix D) This will ensure that the Academy can fully operate from the office in the university alone. Work will commence soon on the expansion.

The Academy was given an equipped office in Abuja by the Raw Materials Research and Development Council (RMRDC). The office is located in RMRDC's building at 80 Lagos Crescent, Garki II, Abuja and comes with access to a board room in the building which can be used for meetings. The Academy's website, [www.nas.org.ng](http://www.nas.org.ng) had to be rebuilt and is fast becoming a useful resource for the science community.



## 3.0 Highlights of 2010 Events

### 3.1 2010 Annual General Meeting

The Academy's 34th Annual General Meeting was held on Saturday, the 23rd of January 2010 at the AHI Residence, Jibowu, Lagos. In attendance were 31 Fellows of the Academy as well as Dr Lauren Alexander and Mr Ijeoma Emenanjo of the US National Academies.

At the AGM, the auditors' report of NAS accounts was received, the 34th Council was inaugurated and six scientists were elected into the Fellowship of the Academy. Also, for the first time since inception of the Academy, two Foreign Fellows were elected; they are Professor Ahmed Zewail (Nobel Laureate in Chemistry) and Professor Bruce Alberts (former President of the US National Academies).



*Prof. Ahmed Zewail in NAS robe after his induction as a Foreign Fellow of NAS*

### 3.2 Induction

The newly elected scientists were inducted into the Fellowship of the Academy at a quiet closed ceremony held, on the 6th of May 2010, at Reiz Continental Hotel, Abuja. The scientists inducted at the ceremony are Professors Siyanbola Malomo, Abba B. Gumel, Francisca N. Okeke, and Nicholas A. Damachi as well as Dr Sonny F. Kuku.

The initial plan to have the Induction ceremony along with the Sir Kashim Ibrahim Lecture was botched as the lecture had to be cancelled following the death of the Academy's Grand Patron (President Umaru Musa Yar'Adua GCFR) the night before. In place of the planned lecture/induction ceremony, the Academy held a brief public ceremony in honour of her departed Grand Patron. This was then followed by the induction of the new Fellows behind closed doors.

Professor Ahmed Zewail, one of the elected Foreign Fellows, took the NAS oath and signed the members register at a private ceremony in Paris, France, in September 2010. Professor Gabriel Ogunmola FAS, past President of NAS, conducted the ceremony.

### 3.3 Nigerian Young Academy (NYA)



*Participants at the young scientists' workshop. Sitting from L-R: Dr. M.O. Odubanjo, Prof. Oyewale Tomori FAS, Prof. Oye Ibidapo-Obe FAS, Prof. A.F. Ogunye, Prof. O. Nduka, Dr. E.I. Unuabonah*

As part of her activities to ensure that young scientists are encouraged, the Academy nominated two young scientists (Dr Emmanuel Unuabonah of Redeemers University and Dr O.S. Asaolu of the University of Lagos) to attend the Inter-Academy Panel (IAP)/ World Economic Forum (WEF) meeting of young scientists in China in 2009. This was followed by the launch of the Global Young Academy (GYA) in Berlin in February 2010; NAS nominated four young scientists to attend this meeting and these were eventually accepted as members of the GYA.



Subsequent to the GYA launch in Berlin, it was expected that national academies would launch 'national chapters' (national young academies) in their respective countries. The idea of establishing a Nigerian Young Academy was endorsed by the Council of the Nigerian Academy of Science. Subsequently, invitations to participate in the process were sent to the other national academies in-country.

The Nigerian Young Academy's (NYA) Steering Committee was inaugurated at a young scientists' workshop hosted by the Redeemers University, Mowe, Ogun State. There were 75 young scientists from across the country in attendance at the workshop which held from the 30th of August till the 1st of September 2010. The inauguration of the NYA was on the 30th of August at a ceremony attended by Professors Otonti Nduka (President, Nigerian Academy of Education), A.F. Ogunye (Vice-President, Nigerian Academy of Engineering), Oye Ibidapo-Obe (President, Nigerian Academy of Science) and Oyewale Tomori (Vice-Chancellor, Redeemers' University). The first general assembly of the NYA is planned for mid-year 2011 after the membership process might have been completed. The Academy acknowledges the support of the Nigerian Liquefied Natural Gas (NLNG) as the workshop was funded partly from a grant given to NAS by the NLNG.

Professor Charles Esimone of Nnamdi Azikiwe University Awka, who was nominated by NAS, attended the annual IAP/WEF conference for young scientists (Annual Meeting of New Champions) in China from 13-15 September 2010.

### 3.4 Public presentation of 'Science in Action'

The first joint public report published by the ASADI- academies, *Science in Action*, is a report that focuses on the issues around maternal and child mortality in Africa. The report was launched at the ASADI V conference hosted by the Ghana Academy of Arts and Sciences in November, 2009.

To follow up, the Nigerian Academy of Science, in collaboration with Save the Children Nigeria, organised a public launch of the report in Lagos on the 24th of February 2010. The event had in attendance Dr. Philippa Momah (Director of Family Health, Federal Ministry of Health), Dr Nkeiru Onuekwusi (Federal Ministry of Health), Dr. Hussein Mursal (Country Director, Save the Children), Dr. Abimbola Williams (Save the Children) and several media representatives.

The event was widely reported by many media organs and the publication has since been distributed to the Ministries of Health of states across the country and other stakeholders.

### 3.5 Forum workshop on non-communicable diseases

Following a reconstitution of the membership of the Academy's Forum on Evidence-Based Health Policymaking, the Forum convened a workshop to examine the challenge posed by non-communicable diseases in the country.

The workshop was held in Abuja on the 4th and 5th of May 2010 and had many relevant stakeholders in attendance. The report of the workshop is in the process of being published.

### 3.6 IDSR workshop

The United States Department of State commissioned the Academy to examine disease surveillance in the West African sub-region with a view to highlighting ways to







improving the system. To this end, NAS convened a workshop on Integrated Disease Surveillance and Response (IDSR) on the 3rd and 4th of August 2010 in Abuja, Nigeria.

Participants were drawn from across West Africa and the workshop was declared open by the Minister of Health, Professor Onyebuchi Chukwu. Also in attendance were the Country Director of the World Health Organisation, Dr Peter Eriki, a representative of the Director-General of the West African Health Organisation, and Dr Andrew Hebbeler of the US Department of State.

The workshop report has been published, in both English and French languages, and disseminated. Electronic copies are also available on the Academy's website.

### 3.7 Agric-Nutrition workshop

For the first time in Nigeria, the Academy convened a meeting in Abuja of the major stakeholders in the agriculture and nutrition sectors on the 30th of November and 1st of December 2010. The workshop was to address the reasons for the disconnect between the two sectors such that agricultural interventions do not seem to translate to gains in nutrition, especially of women and young children.

The workshop was a replica of that hosted by the Ugandan Academy of Sciences and was executed in collaboration with the United States National Academies. This will allow a report comparing the situation in both countries apart from individual workshop reports from each.

The Nigerian Academy of Science was commissioned by the Bill and Melinda Gates Foundation to pursue this project.

### 3.8 Public lectures

The Nigerian Academy of Science organises public lectures as one of her ways of influencing evidence-based policymaking in the country. The lectures provide an avenue for educating the public on pertinent issues and their scientific solutions while also serving as a form of advocacy.

On the 22nd of January 2010, a lecture on "Salt intake and hypertension" was delivered by Professor Soga Sofola FAS at the main auditorium of the Nigerian Institute of Medical Research, Lagos. The lecture was chaired by the Oba of Lagos, Oba Rilwan Akiolu and had in attendance Mr Chima Ibeneche (Managing Director of NLNG) and Professor and Professor (Mrs) Ade Elebute as guests of honour.

On the 7th of October 2010, the Academy organised another public lecture at Reiz Continental Hotel, Abuja. The lecture, titled "A national strategy for long term energy security: The imperatives of the nuclear energy option", was delivered by Dr Erepamo Osaisai who is the Director-General of the Nigeria Atomic Energy Commission. The lecture was chaired by the Honourable Minister of Science and Technology, Professor Kaoje Abubakar.





## 4.0 Engaging the Government

### 4.1 NAS/USNA visit to Government Institutions

A delegation of the Nigerian Academy of Science and the United States National Academies (Dr Patrick Kelley and Dr Lauren Alexander-Augustine) paid courtesy visits to some major stakeholders in the science and technology sector in Nigeria. The visits were to further intimate them with the Nigerian Academy and her mission. The delegation, which was led by the President of NAS, Professor Oye Ibidapo-Obe, was well received by the Honourable Ministers of Health, and of Science and Technology, Professors Onyebuchi Chukwu and Kaoje Abubakar respectively.



Also visited were RMRDC (Raw Materials Research and Development Council), NASENI (National Agency for Science and Technology Infrastructure), ETF (Education Trust Fund), NUC (National Universities Commission) and the African University of Science and Technology. All the institutions visited pledged to support and partner with NAS to ensure national development.

### 4.2 The PREVIEW project



*From left: Dr. (Mrs.) Taiwo, Emeritus Professor Lateef Salako, FAS, Honourable Commissioner of Health, Dr. Jide Idris, and Dr. Leke Pitan after the Lagos State Ministry of Health signed an MoU with the Nigerian Academy of Science*

The 'Policy Research Evidence for Effective Working of Nigerian Health Systems' (PREVIEW) project was designed by the Academy to engage the Lagos State Ministry of Health (LSMoH). The project will include training workshops and policy retreats (bringing policymakers and scientists together) with the aim of improving evidence-based health policymaking among decision makers in the LSMoH.

The project is a result of a successful grant received from Alliance Health Policy and Systems Research (Alliance HPSR) of the WHO, in response to a joint call by the Alliance HPSR and Wellcome Trust.

The project has commenced with the signing of an MOU with the Lagos State Ministry of Health and formation of a joint implementation committee of NAS and LSMoH.

### 4.3 NAS bill

The Academy continued her engagement of the National Assembly to ensure a smooth passage of the Nigerian Academy of Science bill. The deaths of the Academy's Grand Patron and the proposer



of the bill, Senator T. U. Wada, were major setbacks suffered.

Senator (Professor) Jibril Aminu FAS is now the sponsor of the bill. Though listed thrice in December 2010, the bill was not read due to other issues of national importance that had to be debated at the National Assembly.

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

In collaboration with the Federal Ministry of Science and Technology, African Union(AU) and the Academy of Sciences for the Developing World (TWAS), the Academy instituted a prize for young scientists which is to be awarded annually for the next five years. The prize(s) are for (1) Earth and Life Sciences and (2) Basic Sciences, Technology and Innovation.

For 2010, the only prize winner was Dr Theresa Obiekezie of the Department of Physics, Nnamdi Azikiwe University Awka. The award was presented to her by the Honourable Minister for Science and Technology on the 7th of October 2010 in Abuja.

### 5.0 Engaging the Private Sector

#### 5.1 The Nigeria Science Prize

The 5th edition of the Nigeria Science Prize was won by Professor Akaehomen Ibadode for his work titled, "Development of New methods for Precise Die Design". The entries received were rigorously assessed by a panel of judges constituted by NAS. The award ceremony was held on the 9th of October, 2010. The Nigerian Science Prize is a product of collaboration between the Nigerian Academy of Science and the Nigeria Liquefied Natural Gas (NLNG).

An institutional support grant received from NLNG also went towards supporting a young Nigerian scientist. A counterpart grant was awarded by NAS to Dr Olumuyiwa Asaolu who had won an IAP (Inter-Academy Panel) grant; part funding for him was from the National Information Technology Development Agency (NITDA). Funding was also provided for a young scientists' workshop and the launch of the Nigerian Young Academy.

#### 5.2 NAS-Pfizer Media Roundtables and Awards

Having identified the media as a critical partner in meeting her objectives, the Academy had set out to forge close ties with the media by organising regular media roundtables. In 2010, Pfizer Global Pharmaceuticals partnered with NAS to implement this; a contract was signed to hold the NAS-Pfizer media roundtables and award prizes for science reporting.

Three roundtables were held on science reporting, climate change and its impact on agriculture, and on the control of drug abuse in the country. Speakers at these meetings included Mr Akin Jimoh (a science journalism consultant from Devcoms), Professor David Okali FAS, Professor Michael Adikwu FAS and Dr. Hashim Yusuf of the National Food and Drug Control Agency (NAFDAC).



*Cross section of journalists at one of the NAS-Pfizer Media Roundtables*



The programme was crowned at the end of the year with an award ceremony to give prizes to the Print Science Journalist of the year (Mr Emeka Anuforo of Guardian newspaper) and the Broadcast Media Journalist of the year (Miss Vivienne Irikefe of Silverbird television). The highlight of the ceremony was the keynote lecture delivered by Dr Nadia el-Awady, the President of the World Federation of Science Journalists.

The panel of judges that served to assess the entries included Mr Soni Irabor, Mr Declan Okpaleke, Professor Soga Sofola FAS and Professor Charles Wambebe FAS (Chairman).

## 6.0 International Activities

Apart from her role nationally, NAS is playing an increasingly impactful role internationally. Efforts are on to forge new alliances and to play a more active role in such bodies as the Inter-Academy Panel (IAP), Inter-Academy Medical Panel (IAMP) and the International Council on Science (ICSU).

In line with her international goal(s), the Academy was represented at some key international meetings in 2010. The general meeting of the Inter-Academy Panel (IAP) was held along with a conference on biodiversity. The meetings were held at the Royal Society London, from the 12th to the 15th of January 2010, and were attended by the NAS President and the Acting Executive Secretary.

The United Nations Economic Commission for Africa (UNECA) hosted the 2nd Science in Africa conference at Addis Ababa from the 23rd -25th June, 2010. The conference was attended by the President. Also, some Fellows attended workshops organised by other African academies as resource persons.

In commemoration of the 50th independence anniversary of many African countries, the government of the Benin Republic organised a symposium from 9th - 13th November, 2010 at Cotonou. The NAS President presented a paper on "Advancement and Technological Progress in the African Continent" at the meeting.



*L-R: His Excellency, Jean Ping, (President de la Commission de l'Union Africaine (UA)), Professor Oye Ibidapo-Obe FAS, and a participant at the International Symposium Commemorating the 50th Independence Anniversary of African Countries, Cotonou, Benin Republic between the 9th & 13th of November, 2010*



## 6.1 ASADI VI Annual Conference



*Prof. Oye Ibidapo-Obe (President, NAS) with Prof. Robin Crewe (President, ASSAf) at the signing of an MOU by the two academies*

The sixth annual ASADI (African Science Academy Development Initiative) conference was hosted by the Academy of Science of South Africa (ASSAf) on the 9th and 10th of November 2010. The conference was focused on improving access to energy in Africa and had various speakers from around the world.

As is the custom, the conference was preceded, on the 7th of November, by an ASADI board meeting where the ASADI-participating African academies made presentations to the ASADI board. On the 8th of November, there was a Learning Collaborative workshop where participants shared knowledge and practices about academy-related issues.

The NAS delegation to the ASADI meetings comprised the President, the acting Executive Secretary, and the Finance Associate. A high point of NAS' participation was the signing of an MOU with ASSAf.

## 6.2 NASAC General Assembly

Following the ASADI VI conference, the general meeting of NASAC (Network of African Science Academies) was held at the same venue on the 11th of November 2010. At the meeting, a new executive committee was elected; the President of NAS was elected again as a Vice-President of NASAC (in charge of administration) while the President of ASSAf was elected the new President of NASAC.

## 6.3 IAMP General Assembly

The general assembly of the Inter-Academy Medical Panel (IAMP) also held in Malaysia from 7th-9th of June 2010. Professor GJF Esan FAS represented NAS at the meeting where the Nigerian Academy of Science was elected into the executive committee of the IAMP for the first time.



## 6.4 NASAC awareness workshop in Abuja

NASAC's mission includes creating awareness about academies and supporting the creation of new ones in Africa. In this regard the Nigerian Academy of Science was commissioned to convene an awareness creation workshop for a few scientists in West Africa. This held on the 28th and 29th of September 2010 in Abuja and had in attendance scientists from The Gambia, Sierra Leone, Liberia and Equatorial Guinea among others.

## 7.0 Members News

**PROFESSOR O.S. ADEGOKE FAS** was honoured and inducted into the NLNG Nigerian Hall of Fame for Science in recognition of his monumental contribution to the study of bitumen (tar sands) in Nigeria.

**PROFESSOR V.A. ADENUGA FAS** was honoured and inducted into the NLNG Nigerian Hall of Fame for Science in recognition of his outstanding contribution to animal science.

**PROFESSOR O.O AKINKUGBE FAS** was honoured and inducted into the NLNG Nigerian Hall of Fame for Science in recognition of his contribution to the management of hypertension.

**PROFESSOR G.O. EZEKWE FAS** was honoured and inducted into the NLNG Nigerian Hall of Fame for Science in recognition of his contribution to product development and the improvement of engineering infrastructure in Nigeria.

**PROFESSOR OLIKOYE R. KUTI FAS** was honoured and inducted into the NLNG Nigerian Hall of Fame for Science in recognition of his outstanding work in primary healthcare in Nigeria.

**PROFESSOR IDRIS MOHAMMED FAS** was honoured and inducted into the NLNG Nigerian Hall of Fame for Science in recognition of his original work in the use of polyvalent vaccine against meningococcal meningitis in Nigeria.

**PROFESSOR CHIKE OBI FAS** was honoured and inducted into the NLNG Nigerian Hall of Fame for Science in recognition of his monumental contribution to the area of modeling with second-order non-linear differential equations.

**PROFESSOR I.O. OLADAPO FAS** was honoured and inducted into the NLNG Nigerian Hall of Fame for Science in recognition of his contribution to the growth of civil and structural engineering in Nigeria.

**PROFESSOR B.O OSUNTOKUN FAS** was honoured and inducted into the NLNG Nigerian Hall of Fame for Science in recognition of his contribution to pioneering work in neurology in Nigeria.

**PROFESSOR UMARU SHEHU FAS** was honoured and inducted into the NLNG Nigerian Hall of Fame for Science in recognition of his crucial role in stemming the scourge of poliomyelitis in Nigeria.

**PROFESSOR EKANEM BRAIDE FAS** was conferred with the national honour of "Order of the Federal Republic (OFR)" on the 22nd of July, 2010.

**PROFESSOR BARTH. NNAJI FAS** was conferred with the national honour of "Commander of the Order of Nigeria" (CON) on the 22nd of July, 2010.



**PROFESSOR NICHOLAS DAMACHI FAS** was appointed as the Permanent Secretary at the Ministry of Education. He was formerly Permanent Secretary at the Ministry of Information.

During the year, the Academy lost her Grand Patron and four Fellows:

**His Excellency, Alhaji Umaru Musa Yar'Adua GCFR**, the Grand Patron of the Academy and the immediate past President of the Federal Republic of Nigeria died on the 5th of May 2010.

**Professor Olawole Ifedayo Oladapo FAS**, a Foundation Fellow and the 6th President of NAS (1987-1988), died on the 6th of March, 2010.

**Professor Victor Adenuga Oyenuga FAS**, the Foundation President of NAS, died on the 10th of April 2010 (a day after his 93rd birthday).

**Professor Akinpelu Adesola FAS**, an Emeritus Professor of Surgery, died in May 2010 at age 82 years.

**DR. P.I. AMENECHI FAS** died at the age of 76 on the 9th of July, 2010. Dr. Amenechi FAS was a Foundation Fellow of NAS.

ANNUAL REPORT

2010



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



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



## A P P E N D I X C

### Current Fellowship List

	<i>Name</i>	<i>Specialty</i>	<i>Sex</i>	<i>Year Elected</i>
1	ABUBAKAR, Iya (Prof)	Mathematics	Male	FF
2	ACHOLONU, ADW (Prof)	Parasitology/ Microbiology	Male	1992
3	ADEGOKE, OS (Prof)	Geology	Male	FF
4	ADEKOLA, SA (Prof)	Electrical/Electronics Engineering	Male	1990
5	ADELOYE, A (Prof)	Medicine	Male	1987
6	ADEWOYE, OO (Prof)	Materials Science	Male	2006
7	ADIKWU, MU (Prof)	Pharmacy/ Pharmaceutics	Male	2008
8	ADU, IF (Prof)	Animal Nutrition	Male	2004
9	AFOLAYAN, A (Prof)	Enzymology & Protein Science	Male	2005
10	AGHAJI, MAC (Prof)	Thoracic & Cardiac Surgery/Medicine	Male	2007
11	AIRE, TA (Prof)	Veterinary Medicine	Male	2008
12	AJAKAIYE, DE (Prof)	Physics	Female	1980
13	AKANJI, AO (Prof)	Chemical Pathology	Male	2005
14	AKEJU, TAI (Prof)	Civil Engineering	Male	2000
15	AKINKUGBE, OO (Prof)	Medicine	Male	1980
16	AKINRELE, IA (Dr)	Industrial Biotechnology	Male	FF
17	AKINSETE, I (Prof)	Medicine	Female	2004
18	AMAZIGO, JC (Prof)	Mathematics	Male	1985
19	AMINU, J (Ambassador Senator (Prof)	Medicine	Male	1992
20	ANIMALU, AOE (Prof)	Physics/Mathematics	Male	1980
21	ANOSIKE, EO (Prof)	Biochemistry	Male	1998
22	ANUSIEM, ACI (Prof)	Chemistry	Male	2003
23	ANYA, AO (Prof)	Zoology	Male	1978
24	ATTAH, Ed. 'B. (Prof)	Medicine	Male	1999
25	AWE, O (Prof)	Physics	Male	FF
26	BAMIRO, OA (Prof)	Mech. Engineering	Male	2007
27	BRAIDE, EI (Prof)	Parasitology Epidemiology	Female	2004
28	BRIGGS, ND (Prof)	Medicine	Male	2005
29	BWALA, SA (Prof)	Medicine	Male	2003
30	CHIDUME, EC (Prof)	Mathematics	Male	2005
31	CHIJOKE, MO (Prof)	Electrical Engineering	Male	FF
32	COKER, AO (Prof)	Parasitology Microbiology	Male	2003



	<i>Name</i>	<i>Specialty</i>	<i>Sex</i>	<i>Year Elected</i>
33	DADA, O (Prof)	Medicine	Male	2007
34	DAMACHI, NA (Prof.)	Industrial Engineering	Male	2010
35	EGBELU, PJ (Prof)	Engineering	Male	2002
36	EGBUNIKE, GN (Prof)	Animal Science	Male	2005
37	EKUNDAYO, O (Prof)	Chemistry	Male	2003
38	EMOVON, EU (Prof)	Chemistry	Male	FF
39	ENAHORO, HE (Prof)	Mechanical Engineering	Male	1985
40	ENE-OBONG, EE (Prof)	Agriculture	Male	2000
41	ENWONWU, CO (Prof)	Medicine	Male	1979
42	ESAN, GJF (Prof)	Medicine	Male	1982
43	ESOGBUE, AO (Prof)	Engineering	Male	2000
44	ESSIEN, EM (Prof)	Medicine	Male	1990
45	ETTE, AII (Prof)	Physics	Male	FF
46	EVWARAYE, AO (Prof)	Medicine	Male	1987
47	EZEILO, JOC (Prof)	Mathematics	Male	FF
48	EZE-UZOMAKA, OJ (Prof)	Civil Engineering	Male	1981
49	FALADE, GK (Prof)	Petroleum Engineering	Male	2004
50	FALASE, AO (Prof)	Medicine/Cardiology	Male	2003
51	FALUSI, AG (Prof)	Haematology	Female	2008
52	FANIRAN, JA (Prof)	Chemistry	Male	1988
53	GADZAMA, NM (Prof)	Zoology	Male	1997
54	GUMEL, AB (Prof.)	Mathematics	Male	2010
55	IBIDAPO-OBE, O (Prof)	Systems Engineering	Male	2003
56	ILORI, SA (Prof)	Mathematics	Male	2005
57	IMEVBORE, AMA (Prof)	Zoology	Male	1983
58	ISOUN, TT (Prof)	Veterinary Medicine	Male	2003
59	IYAHEN, SO (Prof)	Mathematics	Male	1981
60	KOGBE, CA (Prof)	Geology	Male	1985
61	KUKU, AO (Prof.)	Mathematics	Male	1989
62	KUKU, Sonny F	Medicine	Male	2010
63	LONGE, OG (Prof)	Agriculture	Female	2005
64	MADUEMEZIA, A (Prof)	Physics	Male	FF
65	MAKANJUOLA, GA (Prof)	Agric Engineering	Male	1986
66	MALOMO, Siyambola (Prof)	Geology	Male	2010
67	MOHAMMED, I (Prof)	Medicine	Male	1990



	<i>Name</i>	<i>Specialty</i>	<i>Sex</i>	<i>Year Elected</i>
68	MSHELIA, ED (Prof)	Physics	Male	1994
69	MUSTAFA, S (Prof)	Civil/Water Resource Engineering	Male	2002
70	NGODDY, PO (Prof)	Agric & Food Engineering	Male	1996
71	NNAJI, BO (Prof)	Industrial Engineering	Male	1997
72	NWAGWU, M (Prof)	Zoology	Male	1994
73	NWOKOLO, C (Prof)	Medicine	Male	1986
74	OBI, TU (Prof)	Veterinary Medicine	Male	2003
75	ODERINDE, RA (Prof)	Industrial Chemistry	Male	2008
76	ODIGBOH, EU (Prof)	Agricultural Engineering	Male	1998
77	ODUGBEMI, T (Prof)	Parasitology/ Microbiology	Male	1997
78	OGAN, AU (Prof)	Biochemistry	Male	FF
79	OGUNLESI, TO (Prof)	Medicine	Male	FF
80	OGUNMOLA, GB (Prof)	Chemistry	Male	1987
81	OKAFOR, CO (Prof)	Chemistry	Male	1986
82	OKAFOR, EC (Prof)	Chemistry	Male	2005
83	OKAFOR, N (Prof)	Microbiology	Male	1979
84	OKALI, DUU (Emeritus Prof)	Agriculture	Male	1989
85	OKE, OL (Prof)	Chemistry	Male	1988
86	OKEKE, CE (Prof)	Physics	Male	1999
87	OKEKE, Francisca Nneka	Physics	Female	2010
88	OKEKE, PN (Prof)	Physics	Male	1998
89	OKIGBO, BN (Prof)	Agronomy	Male	FF
90	OKOGUN, JI (Prof)	Chemistry	Male	1979
91	OKON, EE (Prof)	Engineering	Male	1991
92	OKONKWO, PO (Prof)	Pharmacology	Male	1994
93	OKORIE, DA (Prof)	Chemistry	Male	2004
94	OKPAKO, DT (Prof)	Pharmacology	Male	1991
95	OLANIYAN-TAYLOR, GO (Prof)	Chemical Pathology	Female	1997
96	OLUMIDE, YM (Prof)	Medicine	Female	2000
97	OLUNLOYO, VOS (Prof)	Engineering	Male	1989
98	ONADEKO, BO (Prof)	Medicine	Male	2004
99	ONUOHA, KM (Prof)	Geophysics	Male	1998
100	ONWUALU, PA (Prof)	Agricultural Engineering	Male	2008
101	ONWULIRI, COE (Prof)	Zoology/ Parasitology	Male	2008
102	ONWUMECHILI, CA (Prof)	Physics	Male	FF



	<i>Name</i>	<i>Specialty</i>	<i>Sex</i>	<i>Year Elected</i>
103	ONYIDO, Ikenna (Prof)	Chemistry	Male	2007
104	ORANGUN, CO (Prof)	Civil/ Structural Engineering	Male	1981
105	OSOTIMEHIN, B (Prof)	Medicine	Male	2004
106	OSUIDE, GE (Prof)	Pharmacology	Male	FF
107	OSUNTOKUN, O (Prof)	Medicine	Female	1998
108	OYAWOYE, MO (Prof)	Geology	Male	FF
109	PETTERS, SW (Prof)	Geology	Male	2000
110	SALAKO, LA (Prof)	Medicine	Male	1981
111	SALAU, AM (Prof)	Physics	Male	2004
112	SALAWU, RI (Prof)	Elect. Engineering	Male	1999
113	SAMBO, AS (Prof)	Mech. Engineering	Male	2002
114	SHEHU, Umaru (Emeritus Prof)	Community Medicine	Male	FF
115	SHOKUNBI, MT (Prof)	Medicine	Male	2005
116	SOBOYEJO, WO (Prof)	Materials Science	Male	2006
117	SODEINDE, O. (Prof)	Paediatrics	Male	2007
118	SOFOLA, OA (Prof)	Parasitology	Male	2004
119	SOYANNWO, OA (Prof)	Anaesthesia	Female	2004
120	SUSU, AA (Prof)	Chemical Engineering	Male	1994
121	TEJUMOLA, HO (Prof)	Mathematics	Male	1991
122	TOMORI, O (Prof)	Virology	Male	1991
123	UME, Charles (Prof)	Mech. Engineering	Male	2005
124	WAMBEBE, CO (Prof)	Pharmacology	Male	1999
125	YAYOCK, JY (Prof)	Agriculture	Male	1990
126	YOLOYE, EA (Prof)	Science Education	Male	FF



A P P E N D I X D

Proposed Construction of Extension of NAS Building, Unilag

