

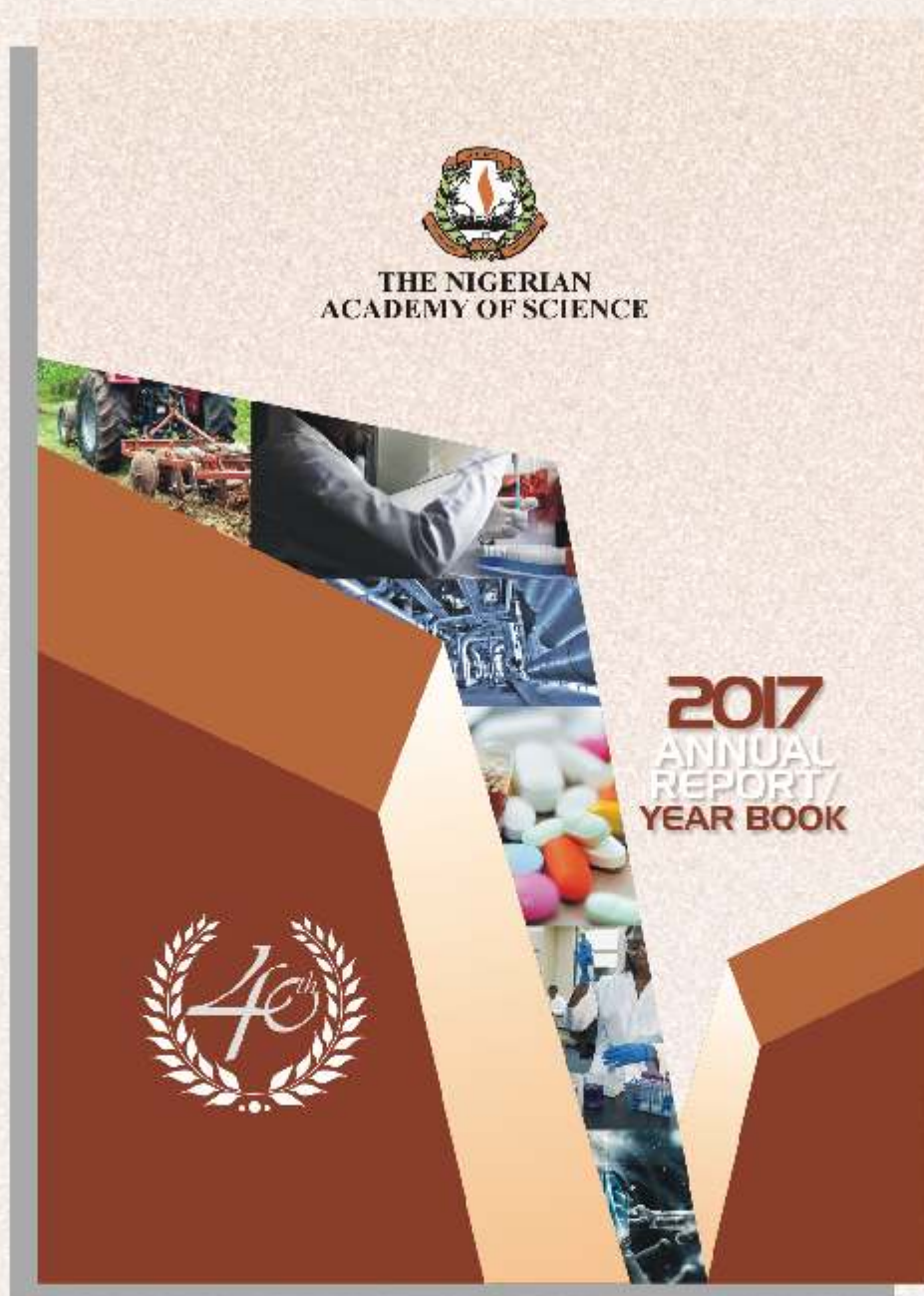


**THE NIGERIAN
ACADEMY OF SCIENCE**



2017
ANNUAL
REPORT/
YEAR BOOK





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8A Ransome Kuti Road, University of Lagos, Akoka, Lagos.
P.M.B. 1004 University of Lagos Post Office Akoka, Yaba, Lagos, Nigeria.
Tel: +234 808 962 2442 Email: admin@nas.org.ng
Website: www.nas.org.ng

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LET'S TOGETHER SERVE THE NIGERIAN ACADEMY OF SCIENCE AND OUR NATION WITH RENEWED VIGOUR



Professor Mosto Onuoha, FAS
President

Preamble

Distinguished Fellows of the Nigerian Academy of Science, Ladies and Gentlemen!!

Let me start by thanking you all for making it possible for me to stand before you here today to give my inaugural and acceptance speech as President of this august body of experts in science, technology and innovation in Nigeria. I was very humbled to read in the minutes of our January 2016 AGM what the Panel charged at that time with the responsibility of choosing a President-Elect for NAS said about me in connection with their choice and recommendation. I promise with the help of you all to discharge my duties with passion, sincerity and integrity.

Inaugurated in 1977 with 42 Foundation Fellows, NAS has since grown to a body with 221 Fellows (43 of which are deceased while one resigned). Additionally, there are three Foreign Fellows (i.e. non-Nigerians) that were inducted between 2010 and 2012. The Academy exists to promote the growth, acquisition and dissemination of scientific knowledge, and to facilitate the use of science, technology and innovation in the solution of problems of national interest. It is expected to be a dynamic body capable of responding to changes in society and modifying and reorganizing its structure as conditions in the society demand.

I have been privileged to serve NAS in various capacities in the last eighteen years and in the most recent times as Treasurer for three years and Vice-President for four years. I can therefore claim a fairly good knowledge of some of the most intricate problems facing us as a body. NAS has been successfully executing some of the functions expected of it, e.g. organizing conferences/workshops and lectures periodically, publishing its journals and meeting/forum reports, and offering advice and assistance to some ministries and organisations. We are now ready to award prizes and gold medals to Nigerian scientists and engineers who make outstanding contributions to science and technology, etc. I will like to use this opportunity to salute all the Past Presidents of NAS, especially those who served in the last fourteen years (Ogunmola, Okali, Ibadapo-Obe, and Tomori). I worked very closely with each of them and learnt a lot from them. These together with other Past Presidents (and there are still many of them that thankfully are still alive and strong today) should for me constitute a veritable resource base for knowledge and ready advice.

Despite the gains made by NAS in recent times we are yet to make much progress on some of the other functions of this body as originally envisioned by our founding fathers, e.g.

- i. Involvement in manpower training;
- ii. Establishing a fellowship programme for postdoctoral research;



- iii. Playing an active role in the selection of candidates for government postgraduate scholarships and Fellowships in the Sciences.
- iv. Assisting universities, and other similar institutions in R & D matters;
- v. Compiling and publishing a Directory or National Register of Scientific and Technological Personnel.

As your new President, my attention would be primarily drawn towards tackling the following main issues, some of which are simply being brought forward from the last administration:

- 1) Meeting our vision and maintaining societal relevance.
- 2) Increasing the visibility of NAS in the nation space.
- 3) Getting more and more Fellows involved in the activities of the Academy.
- 4) Going ahead with plans for the establishment of a permanent headquarters for NAS at the nation's capital (i.e. getting the C of O for the land already allocated to us, and getting some work started at the site).
- 5) Moving forward with the NAS Bill before the National Assembly.
- 6) Reviewing our expired Strategic Plan (2012-2016) and putting in place a new one for the period 2017-2022.
- 7) Continuing the dialogue on Research Funding in Nigeria and Re-building the foundation for research.
- 8) Collaborating with the Science Association of Nigeria and other scientific societies.
- 9) Sustaining our relationship with the Nigerian Young Academy.
- 10) Addressing the imbalance in the distribution of specialties in the Academy.
- 11) Successfully celebrating the 40th Anniversary of the establishment of NAS and hosting of the 13th Annual Meeting of African Science Academies (AMASA-13) in Abuja in November, 2017. The core of the Local Organising Committee for these events is already at work.

As stated earlier, my immediate predecessor in office with the out-going Council was already dealing with some of these issues, so all we need to do is to roll up our sleeves and continue with the work. The 40th Council will soon get into action and work out how these things would be done. Our collective efforts are necessary for success to be achieved.

Let me now end this short address by quickly referring to some very important issues:

- a) The Proposed NAS Bill

Over the years little progress has been made so far with the actualisation of the Academy's recognition through legislative charter, which hopefully should position the Academy as an official advisory body to the government in areas of science and technology, as well as providing a stable funding base via a yearly government budgetary allocation. Highlights of efforts made so far include the following milestones: -

- Draft bill finally prepared in April 2009
- Lead paper prepared in May 2009
- 1st reading of bill took place on 20th May 2009
- 2nd reading was scheduled for September 2009
- The Senator that was then presenting the bill was Senator T.U Wada from Gombe State, (a lawyer) previously involved with the administration of the Ministry of Science and Technology
- The Senator died and for a long time action on the draft bill got stalled.
- We made more efforts with the next National Assembly, this time starting with the House of Reps; Members of Council were on one occasion even received by the then Speaker of the House, Hon. Tambuwal. Hopes were high and on Tuesday, November 27, 2012 the House concluded its debate



on the general principles of the bill and referred it for further legislative action to the appropriate House Committee.

- Even though we worked closely with a Consultant appointed by the House to prepare for the public hearing of the bill, nothing much happened until the life of that National Assembly ended in 2015.

The new Council will within the year decide on what next to do or how best to proceed with this assignment of getting a charter for NAS.

b) On the Issue of Offering Evidence-Based Scientific Advice: -

- NAS should be more proactive and use its sectional committees
- NAS should try to be aware of advisory needs in the country for both the government and the organized private sector and offer solicited and unsolicited advice
- Provide information about NAS and its capabilities and services to selected ministries, government agencies, and the private sector
- Cultivate relationships with targeted government advisers by inviting them to some NAS activities
- Try to use the prestige of NAS Fellows as entry point to the private sector
- Identify key players by name and hold informal meetings with them

c) Funding of NAS

NAS needs adequate, sustainable and diversified funding for its activities. To do this: -

- i. We will keep working to obtain a Charter status as soon as possible.
- ii. Launch Science & Technology Endowment Drive and make all efforts to raise money for the 40th Anniversary Celebrations of NAS and the hosting of the AMASA-13 in November 2017.
- iii. We will continue to make efforts to raise funds by competing for funded projects, and collaborating with funding agencies to organize workshops and carry out projects. We will ensure that NAS achieves some fully-funded projects every year.
- iv. Provide scientific and evidence-based services to government, the private sector, and the community and intensify efforts to raise funds through philanthropic foundations and individuals.

Getting support for funding will require inputs from all Fellows of NAS.

d) On NAS Membership:

We will do everything possible to improve the profile of the Academy in terms of members' commitment, participation, and age brackets. This would involve:

- i. Encouraging more Fellows to attend NAS meetings and events and having them respond to correspondences from the Secretariat.
- ii. Widely publicizing the Academy and its procedures for membership in order to attract members from diverse institutions and locations in the country.
- iii. Achieving a mean age of between 50 and 60 years of new Fellows.

Finally, I would like to remind all of us that the Academy belongs to all of us and needs the intellectual, professional, moral, and financial contribution of every Fellow. The nation needs NAS even if the powers that be do not always recognize this. Things will get better with time, even if the road ahead for now appears hazy because of the economic climate. We must remain optimistic and work hard to achieve our vision and mission. Thank you for giving me the opportunity to serve you as President. It is an awesome responsibility, and by God's grace, I will not fail those who have confidence in my ability to lead this organization at a time like this.

God bless you all!



THE NIGERIAN ACADEMY OF SCIENCE 2017 ANNUAL REPORT

1.0 The Nigerian Academy of Science

The Nigerian Academy of Science (NAS) was established in 1977 and incorporated in 1986. The Academy is the foremost independent scientific body in Nigeria, which is dedicated to the development and advancement of science, technology, and innovation in Nigeria for the socioeconomic development of the country. It functions to bring scientific knowledge to positively guide policies/strategic direction of the country.

NAS is a national not-for-profit organization with membership comprising 170 Fellows (since inception), elected through a highly competitive process, who have distinguished themselves in their fields both locally and internationally. Some of its members have served as Vice-Chancellors of universities, Directors-General of government parastatals, Ministers in federal ministries, etc. The Academy, given its clout, also has the ability to attract other experts from around the country and internationally when needed. NAS, with its combination of expertise and independence, is uniquely positioned to bring scientific evidence to bear on policies and program implementation in the country.

NAS is Nigeria's national representative on such bodies as the International Council for Science (ICSU) – the umbrella body for all science associations and unions - and the Inter-Academy Partnership (IAP) – the umbrella body for all national science academies globally. The Academy is also a member of the Executive Committees of the Inter-Academy Partnership for Research (IAP-R) and the Network of African Science Academies (NASAC).

Some recent accomplishments of NAS include: 1) the development of a training manual on getting research into policy and practice; 2) the organization of an international conference on climate change in Lagos; 3) implementation of a project on linking agriculture and nutrition 4) the organization of a national consensus building workshop on the prevention of maternal and child mortality in Nigeria, 5) convening a roundtable meeting to discuss the issues related to the Ebola Virus Disease epidemic that recently affected the country and the West African region, 6) implementing an intervention program to address the social and reproductive health issues of the youth in Ekiti and Nasarawa States of Nigeria and 7) the hosting of all African academies and other scientists at an international conference on STI education and manpower development in Africa.

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. The Academy does this by:



- a. 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;
- b. Bringing to the attention of the government and its agencies problems of national interest that science and technology can help solve; and
- c. 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, as well as the organization of panel studies to advice on pertinent scientific issues.

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 41st Council



Professor Mosto Onuoha, FAS
The President/Professor of
Pure and Applied Geophysics



Professor Ekanem Braide, FAS
Vice President/Professor of Parasitology/
Epidemiology



Professor Temitayo Shokunbi, FAS
Treasurer/Professor of Anatomy and
Consultant Neurological Surgeon



Professor Olusegun Ekundayo, FAS
Academic Secretary/Physical Sciences.
Professor of Chemistry



Professor Adeyinka Afolayan, FAS
Academic Secretary/Biological Sciences.
Professor of Enzymology & Protein Science



Professor Sunday Atawodi, FAS
Public Affairs Secretary/
Professor of Biochemistry



Professor Soga Sofola, FAS
Foreign Secretary/
Emeritus Professor of Physiology



Professor Olusegun Oke, FAS
Representative, Physical Sciences/
Professor of Nutritional Chemistry



Professor Olukayode Adebawale, FAS
Representative, Physical Sciences/
Professor of Industrial Chemistry



Professor Domingo Okorie, FAS
Representative, Physical Sciences/
Professor of Chemistry



Professor Babajide Alo, FAS
Representative, Physical Sciences.
Professor of Organic and Environmental Chemistry



Professor Olaitan Soyannwo, FAS
Representative, Biological Sciences/
Professor of Anaesthesia and
Director, Center for Palliative Care Nigeria



Professor Akintoye Coker, FAS
Representative, Biological Sciences/
Professor of Parasitology/Microbiology



Professor Paul Okonkwo, FAS
Representative, Biological Sciences/
Professor of Molecular and Ethnopharmacology



Professor John Agbenin, FAS
Representative, Biological Sciences/
Professor of Soil Environmental Chemistry



Professor Akinyinka Omigbodun, FAS
Chairman, Publication Committee/
Professor of Obstetrics and Gynaecology



Professor Oyewale Tomori, FAS
Immediate Past President/Professor of Virology



2.2 The Fellowship

Fellows of the Academy are scientists with diverse expertise covering all fields of science, including engineering and medicine. The Nigerian Academy of Science is merit-based and the growth of the Fellowship is limited by the rate of increase. The annual process of election of scientists into the Academy begins with a call for nominations which is sent to all Fellows of the Academy. To be elected, scientists have to be nominated by a Fellow of the Academy, and each nomination must be endorsed by three other Fellows. Subsequently, the nominations received are assessed by the appropriate Sectional Committees of the Academy, based on each candidate's field of expertise. The top three nominees, who must attain a stipulated minimum score, are recommended to the Council for shortlisting. The Council prepares the final short list of candidates to be voted for by Fellows of the Academy. The top ten candidates, with at least 50% of total votes cast, are elected.

2.3 The Secretariat

The operations of the Academy are coordinated by its secretariat which is based at the Academy House, 8A Ransome Kuti Road, University of Lagos Campus, Akoka-Yaba, Lagos State. Staff members at the secretariat at the end of 2017 were:

Dr. Oladoyin Odubanjo	-	Executive Secretary
Mrs. Scholastica Lan	-	Program Manager
Mr. Samuel Shofuyi	-	Finance Associate/Assistant Administrative Manager
Dr. Kikelomo Ogunsulire	-	Program Officer (until April, 2017)
Miss Gertrude Ogieguata	-	Program Officer (Development)
Miss Anjola Olanipekun	-	Program Officer
Miss Mobolaji Dasaolu	-	Administrative Officer (Communications)
Mr. Nicholas Ibeh	-	Administrative Officer
Mrs. Ifeoluwa Edawole	-	Administrative Officer
Mr. Etim Idongesit	-	Administrative Assistant

3.0. National Events and Activities -

This section provides a brief overview of some key events, involving the Academy, during the course of 2017.

3.1 Professor Kalu Mosto Onuoha FAS Becomes Academy's 18th President

The Nigerian Academy of Science, at its Annual General Meeting held in Lagos on Thursday, 26th of January, 2017, inducted Professor Kalu Mosto Onuoha FAS as its new President. Professor Onuoha took over from Professor Oyewale Tomori FAS (a virologist) who served as President of the Academy between January 2013 and January 2017. Mosto, as he is fondly called, was the Academy's Treasurer before he became Vice president in 2013.

In his acceptance speech, the new President said he was honored to be elected as the President of Nigeria's foremost science organization. Professor Kalu Mosto Onuoha FAS served as the pioneer Mobil





Professor of Petroleum Geology at the Mobil Producing Nigeria's Chair of Geology at the University of Calabar (1991-92). He also served as Technology Development Adviser (Subsurface Development Services) at the Shell Petroleum Development Company of Nigeria, Port Harcourt (1996-2002), and Shell/NNPC Professor of Geology at the University of Nigeria, Nsukka (2003-2012). Prof. Onuoha additionally has served the UNN in many capacities, including as Deputy Vice-Chancellor (Academic) between 2005 and 2009. He was also the PTDF Chair of Petroleum Geology at the UNN.

Prof. Onuoha's record of professional activities, community service, and services rendered to Nigeria includes membership of the Editorial Board of several reputable local and international scientific journals, member of the Governing Council of Abia State University, Uturu (2000-2006), University of Nigeria, Nsukka (2005-2009), Federal University Ndufu Alike Ikwo, Ebonyi State (2015-2016), Visiting Professor to the African University of Science & Technology, Abuja (since 2010), and to the Federal University, Ndufu Alike Ikwo, and Member of the Board of Assessors (Science), Nigerian National Order of Merit (2003-2008).

He will be leading the Nigerian Academy of Science in achieving an improved quality of life for the Nigerian society through the promotion and application of science and technology; as well as 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.

3.2 AGM 2017- Scientists elected into NAS Fellowship

The Nigerian Academy of Science at its Annual General Meeting held in Lagos on Thursday, 26th of January, 2017 elected nine distinguished scientists as Fellows of the Academy. They are:-

1. Professor Emiola Oluwabunmi Olopade-Olaopa
2. Professor Oluwatoyin Temitayo Ogundipe
3. Professor Joseph Abiodun Balogun
4. Professor Folasade Tolulope Ogunsola
5. Professor Effiom Edem Antia
6. Professor Charles Okechukwu Esimone
7. Professor Karniyus Shingu Gamaniel
8. Professor Mufutau Babs Oyenyin
9. Professor Martins Olusola Olorunfemi.

The elected scientists were inducted as Fellows of NAS at a ceremony in Abuja on the 11th of May, 2017.

Also at the AGM, the Academy's 41st Council was constituted. They are:-

- | | | |
|----------------------------------|---|---|
| 1. Professor Mosto Onuoha | - | President |
| 2. Professor Ekanem Ikpi Braide | - | Vice President |
| 3. Professor Temitayo Shokunbi | - | Treasurer |
| 4. Professor Soga Sofola | - | Foreign Secretary |
| 5. Professor Akinyinka Omigbodun | - | Chair, Publications Committee |
| 6. Professor Olusegun Ekundayo | - | Academic Secretary, Physical Sciences |
| 7. Professor Adeyinka Afolayan | - | Academic Secretary, Biological Sciences |



8. Professor Sunday Atawodi	-	Public Affairs Secretary
9. Professor Olaitan Soyannwo	-	Representative, Biological Sciences
10. Professor Akintoye Coker	-	Representative, Biological Sciences
11. Professor Paul Okonkwo	-	Representative, Biological Sciences
12. Professor John Agbenin	-	Representative, Biological Sciences
13. Professor Martin Aghaji	-	Representative, Biological Sciences
15. Professor Kayode Adebawale	-	Representative, Physical Sciences
16. Professor Olusegun Oke	-	Representative, Physical Sciences
17. Professor Domingo Okorie	-	Representative, Physical Sciences
18. Professor Babajide Alo	-	Representative, Physical Sciences
19. Professor Oyewale Tomori	-	Immediate Past President

3.3 NAS Executive Committee (Exco) Strategic Retreat

On the 20th and 21st of February, 2017, the Academy held an Executive Committee Strategy Retreat at Epe Resorts, Epe, Lagos State. Professor Onuoha opened the retreat with a narrative of his vision/plans for fulfilling the Academy's vision and maintaining societal relevance. The Academy's Strategic Plan 2018-2022 was drafted at the meeting and the status of implementation of the existing plan 2012-2017 was reviewed.

The NAS Exco includes Professors Mosto Onuoha, President, Ekanem Braide, Vice President, Temitayo Shokunbi, Treasurer, Olusegun Ekundayo, Academic Secretary, Physical Sciences and Adeyinka Afolayan, Academic Secretary, Biological Sciences. Also on NAS Council Exco are Professors Soga Sofola, Foreign Secretary, Sunday Atawodi, Public Affairs Secretary, and Akinyinka Omigbodun, Chairman, Publications Committee. The Nigerian Academy of Science is dedicated to the development and advancement of science, technology, and innovation in Nigeria for the socioeconomic development of the country.

3.4 NAS disseminates Family Life Health Education (FLHE) curriculums

In pursuit of its desire to work with relevant stakeholders to address social development and reproductive health issues of the youth, The Nigerian Academy of Science (NAS) has been engaging the Ekiti and Nasarawa State governments since 2013. NAS commissioned a project focused on addressing gaps in youth social development and reproductive health in the two states. These projects led to the adaptation of revised Family Life Health Education (FLHE) curriculums for use in the states. On Friday, 24th of February, 2017, NAS held a roundtable meeting engaging the media and other stakeholders to disseminate knowledge of the projects and the published FLHE curriculums of Ekiti and Nasarawa States.

The Academy appreciates the critical role that journalists play in informing and educating the general public on issues of national importance, and therefore seeks the need to strengthen her engagement with the media. Professor Mosto Onuoha FAS, in his welcome remark -his first engagement with journalists as President of NAS, charged the media to be a watchdog of the society.

The keynote speaker, Mrs. Adenike Esiet (Executive Director, Action Health Incorporated) spoke on the topic "The FLHE Curriculum implementation in Nigeria: Why bother?". In her presentation,



she gave the profile of young people's sexual health in Nigeria. Mrs. Esiet explained what FLHE is, its goals, as well as the lessons from the curriculum's implementation. She told the journalists that it takes "strategy, courage, and resources" to make a big difference in playing their important roles. In attendance at the meeting were Mr. Naptali Dachor, Permanent Secretary, Ministry of Agriculture & Water Resources, Nasarawa State, as well as Mr. Abari Aboki, Permanent Secretary, Ministry of

Youth/Sports & Development, Nasarawa State; both brought goodwill messages from the State.

Participants at the meeting included Professors Mosto Onuoha FAS, Akinyinka Omigbodun FAS, (Project Lead), Olusegun Ekundayo FAS, Akinyinka Omigbodun (Professor of Psychiatry, University of Ibadan), and journalists from different media houses in Nigeria.

3.5 Induction of distinguished scientists and public lecture into NAS

With excitement, invited guests assembled in the hall of Reiz Continental Hotel, Abuja to witness the induction of distinguished scientists as Fellows of the Nigerian Academy of Science on the 11th of May, 2017.

As a custom, the Academy's induction ceremony is preceded by a public lecture. Professor Sunday Atawodi FAS, a Professor of Biochemistry at the Ahmadu Bello University Zaria, delivered the public lecture titled "Cancer: Keeping the monster at bay". Atawodi in his lecture told the audience that cancer is a large group of diseases (over 200) which is characterized by uncontrolled growth and spread of abnormal cells. He said a number of Nigerian foods, including bitter leaf (*Vernonia amygdalina*), red palm oil (*Elaeisguineensis*), zobo (*Hibiscus sabdariffa*), okra (*Hibiscus esulentus*), beniseed (*Sesamum indicum*), kuka (*Adansonia digitata*), efo (*Amaranthus* sp.), uguwu (*Telfeiria occidentalis*), locust beans (*Parkia clappertoniana*), ginger (*Zingiber officinale*), garlic (*Allium sativum*), tsamiya (*Tamarindus indica*), cashew (*Anacardium occidentale*), Mango (*Mangifera indica*), dinya (*Vitex doniana*), Kanumfari (*Syzygium aromaticum*), aduwa (*Balanites aegyptiaca*), citrus fruits (*Citrus aurantium*), ogbono (*Irvingia gabonensis*), guava (*Psidium guajava*), waterleaf (*Talinum triangulare*), bitter kola (*Garcinia kola*), tomatoes (*Lycopersicon esculentum* Mill), soya beans (*Glycine max*), atile (*Canarium schweinfurthii*), cabbage (*Brassica oleracea*), black pepper (*Piper nigrum*), zogale (*Moringa oleifera*), etc; all contain a wide range of cancer chemopreventive substances.

Professor Atawodi explained that the rich polyphenol contents of many local foodstuffs, their potent antioxidant effects, and their promising results in animal models of cancer chemoprevention suggest that their regular consumption can guarantee keeping the "monster" called cancer, at bay, permitting us to enjoy a healthier, longer, and more fulfilled life.



The inducted Fellows were:

Professor Effiom E. Antia FAS became the first Professor of Oceanography in the Nigerian University System, specializing in geological and physical oceanography. Prof Antia's research versatility, as evidenced by his over 200 oral and technical presentations, led to his nomination by the International Council for Science Union as a pioneer member of its Consortium on Hazards and Disaster in Africa in 2015. Prof. Antia is a leading advocate of integrated marine sciences education at tertiary level in Nigeria.

Professor Joseph A. Balogun FAS is a tenured Distinguished University Professor in the Department of Health Studies at Chicago State University (CSU). He earned his Master's and Ph.D. degrees from the University of Pittsburgh. In 2008, he was honored by the CSU Board of Trustees with the Distinguished University Professor award; only the 4th recipient in the University's 150-year history. Professor Balogun served as Dean for the College of Health Sciences at CSU for 13 years (1999- 2013). He worked for 6 years as Chair and Associate Dean for Student Academic Affairs at SUNY (1993-1999); and served as Consultant Physiotherapist and Vice-Dean of the Faculty of Health Sciences at OAU (1986-1991).



Cross section of Fellows at the Induction ceremony of new fellows of the Nigerian Academy of Science

Professor Charles O. Esimone FAS graduated from St. Joseph's College Sasse, Cameroon in 1987 and with B. Pharm, M. Pharm and PhD from the University of Nigeria in 1995, 1998 and 2002 respectively. He is a Professor of Biopharmaceutics and Pharmaceutical Microbiology in the Faculty of Pharmaceutical Sciences, Nnamdi Azikiwe University, where he served as pioneer Dean from 2009-2014. He became a professor at the age of 37, emerging as UNIZIK's first Professor of Pharmacy, as well as the first Professor of Pharmaceutical Microbiology in Southeastern Nigeria. Professor Esimone is currently the Deputy Vice- Chancellor (Academics) at the University of Nigeria, Nsukka

Professor Karniyus S. Gamaniel FAS is a pharmacist, a Professor of Pharmacology and Founding Dean, Faculty of Pharmacy, University of Maiduguri. He has made particular achievements in the research and development of phytomedicines. Professor Gamaniel is the Audit Person and Scientific Advisor on the MacArthur Foundation Scientific Equipment Project for 15 African universities. He is a well known leading international authority in ethical drug development and good laboratory practice; and is an active member of several professional learned society and community organizations.

Professor Oluwatoyin T. Ogundipe FAS is a Professor of Botany at the University of Lagos. He was an Adjunct Professor at the Department of Biology, Central Michigan University, Michigan. He enjoyed Royal Society of London, Lennox-Boyd Memorial Trust and Bentham-Moxon Trust sponsorship to Royal Botanical Gardens, Kew, U.K. He has participated in several environmental consulting projects. He is currently the Vice Chancellor of the University of Lagos and President of the Botanical Society of Nigeria.



Professor Folasade T. Ogunsola FAS has an MBCHB from University of Ife and obtained an MSc with distinction in medical microbiology from the University of Lagos and a PhD from the University of Wales, Cardiff. She is a Fellow of both the National Postgraduate Medical College and West African College of Physicians and is the first female Provost of the College of Medicine, University of Lagos. She is currently the DVC Development services of the University of Lagos. She was the Infection Control Lead for the Ebola outbreak in Nigeria 2014. Professor Ogunsola has won many grants, nationally and internationally, through which she has contributed to both human capacity development and research infrastructure, the most recent being a \$3.2million NIH Grant, BRAINS (Building Research And Innovation in Nigeria's Science), to build research capacity at the College of Medicine

Professor Emiola O. Olapade-Olaopa FAS is an accomplished scientist who has undertaken extensive research activities in the basic clinical and epidemiological aspects of urological diseases and in medical education. He designed and patented a urology training manikin which has won two international prizes, and he also devised an endoscopic technique for traumatic posterior urethra disruption. Professor Olapade-Olaopa is the current president of the Pan-African Urological Surgeons Association and the Executive Secretary of the Association of Medical Schools of Africa. He is a member of several technical committees of the WHO, and is also the Director of the internationally accredited PIUTA Ibadan Center for urological training.

Professor Martins O. Olorunfemi FAS received a B.Sc. in Applied Geophysics (First Class Honours) from the University of Ife (now Obafemi Awolowo University) Ile Ife, in 1976, and M.Sc. and Ph.D. in Applied Geophysics of the University of Birmingham, England, in 1979 and 1981 respectively. He joined the Department of Geology, Obafemi Awolowo University in 1982, as Lecturer Grade II and became a Professor of Applied Geophysics in 1996. Professor Olorunfemi is a recipient of several awards and distinctions including the Federal Government Scholarship award, Faculty Prize Winner, and Commonwealth Scholarship Award. He is a Fellow of the Nigerian Association of Hydrogeologists.

Professor Mufutau B. Oyenehin FAS is a Professor of Petroleum Engineering at Robert Gordon University with recognized expertise in Well Engineering, Sand Management and Multiphase Flow Assurance, the areas of which he has published a book, over 90 technical papers, and has three patents. He is the President of the Mining Institute of Scotland; Visiting Professor at Afe Babalola University and Managing Director of i-Flow Energy Ltd - an oilfield asset and technology development and capacity building company with Africa as target market. He is the founder and Chairman of the Joint Industry Sand Management Network. Professor Oyenehin is a COREN-registered engineer, and a Chartered Engineer (CEng)

Participants at this event included the Minister of Health, Professor Isaac Adewole FAS, Former Minister of State of Health, Dr. Aliyu Idi Hong, Professor Sunday Adewuyi (representing the Vice Chancellor of Ahmadu Bello University, Zaria), Professor Hilary Inyang, Nanjing University, China, and former Vice Chancellor of the African University of Science and Technology Abuja, Provosts from different Colleges of Medicine, Chief Medical Directors, Fellows of the Nigerian Academy of Science, journalists from different Nigerian media houses, and the general public.



3.6 NAS Retreat with Ekiti State House of Assembly Legislators

On Tuesday, 13th of June, 2017, The Nigerian Academy of Science held a retreat with legislators of the Ekiti State House of Assembly at the Midas Hotel, Ado-Ekiti. Professor Fola Esan FAS, on behalf of the NAS President, was in attendance to give a goodwill message. He thanked the state government for their support throughout the duration of the project; and he expressed the hope that the forum would serve as an avenue for the legislators to gain new knowledge that will aid them in making policies that will address the needs of the youth in Ekiti State.

Participants at the retreat included the Permanent Secretary of the Ministry of Women Affairs, Ekiti State, Mrs Olabisi Akindele, the Right Honourable Speaker, Ekiti State, Mr. Kola Oluwawole, Professor Kayode Ijadunola (the consultant engaged to train on Getting Research Into Policy and Practice (GRIPP)), Ekiti State Commissioner for Finance, Chief Toyin Ojo, and the media. In attendance were some Fellows of the Academy. They are Professors Fola Esan FAS (representing the Academy's President), Akinyinka Omigbodun FAS (Project Lead), Adeyinka Afolayan FAS, (Academic Secretary, Biological Sciences), and Olusegun Ekundayo FAS (Academic Secretary, Physical Sciences). Also in attendance were some members of staff of the Academy: Dr. Oladoyin Odubanjo, Mrs Scholastica Lan, Mr. Samuel Shofuyi, Ms. Anjola Olanipekun, Ms. Gertrude Ogieguata, and Mrs. Ifeoluwa Edawole.

3.7 NAS Retreat with Ekiti State House of Assembly Senior Staff

The Nigerian Academy of Science, in partnership with the government of Ekiti State, held a retreat with senior staff of the Ekiti State House of Assembly on the 14th of June, 2017 at the Midas Hotel, Ado Ekiti. The forum was to train the staff on evidence-informed policymaking, as part of the NAS project on youth development in the state.

At the meeting, Professor Fola Esan FAS, who represented the President of the Nigerian Academy of Science, encouraged the senior staff of the Ekiti State House of Assembly to work together with the state legislators to address the needs of the youth in the state. One of the technical sessions of the meeting, which covered the past activities undertaken under the project, reflected on the need to build the capacity of designated teachers in skill acquisition education in secondary schools in Ekiti State. The meeting explored the basis of research leadership, identified the challenges associated with research leadership, as well as demonstrated the role of research mentoring for development.

Fellows of the Academy in attendance were Professors Fola Esan FAS (representing the Academy's President), and Akinyinka Omigbodun FAS (project lead). Some other participants included Professor Kayode Ijadunola (the consultant engaged to train on Getting Research Into Policy and Practice (GRIPP)), Ekiti State Commissioner for Finance, Chief Toyin Ojo, Mr. Femi Ogundipe and members of the press.

3.8 NAS holds wrap-up stakeholders' Meeting in Ekiti State

The Nigerian Academy of Science with support from Ford Foundation had engaged Ekiti State for four years in a project on youth development. On Thursday, 15th of June, 2017, NAS held a wrap-up stakeholders' meeting on this project on 'addressing gaps in youth social development and reproductive health'.



The meeting, which was held at the Midas Hotel Ado-Ekiti, had in attendance the Deputy Governor of Ekiti State, Dr. Kolapo Olushola. Dr. Olushola thanked NAS for the opportunity of the collaboration over the years. He stated that though the project was wrapping-up, it was not ending because it is the foundation on which further development in the state will be built. He gave a detailed narrative of the Ekiti government's passion for the youths, and the steps that have been taken to carry out the recommendations contained in the Action Plan developed in the project. In his speech, Dr. Olushola stated that steps will be taken to scale-up the adoption of the FLHE curriculum in the state. He pledged the state's continued support and political will towards the sustenance of the project.

Professor Fola Esan FAS, on behalf of the President of NAS, thanked the State for the support shown to NAS through the duration of the project. He expressed the hope that the legacy that has been built through the project would be sustained beyond its official closure. He enjoined stakeholders from all sectors of the state government to take ownership of the intentions of the project, and gave assurances that the Academy will render support where possible. The NAS Executive Secretary, Dr. Doyin Odubanjo, made a presentation (on behalf of the Project Lead) on the journey of the project from the first phase to the just concluded second phase. While he highlighted the milestones, challenges, lessons learnt, and future prospects; he recommended that the state continues to invest in youth development, establish Adolescent-Friendly Health Services (AFHS), and fully adopt the Ekiti State Family Life Health Education (FLHE) curriculum developed during the course of the project.

Other participants at this wrap-up meeting included Mrs Olabisi Akindele, Permanent Secretary, Ministry of Women Affairs, Ekiti State, Mrs Olabisi Fatoba, Dr. Mrs. Adekunbi Obaisi, Permanent Secretary, Ministry of Education, Ekiti State, Dr. Ayodeji Adebayo, the Project Consultancy Team for Ekiti State, Mr. Kola Ajumobi, Permanent Secretary, Ministry of Information, Ekiti State, Mr. Jide Ogunjobi, the Commissioner for Education, Ekiti State, The Commissioner for Health, Ekiti State, Dr Kola Oluwawole, the Speaker of the Ekiti State House of Assembly, and the media. NAS representatives at the meeting were Professors Fola Esan FAS (representing the Academy's President); Akinyinka Omigbodun FAS (Project Lead); Adeyinka Afolayan FAS, (Academic Secretary, Biological Sciences); and Olusegun Ekundayo FAS (Academic Secretary, Physical Sciences).

3.9 Regional stakeholders meeting on balanced and inclusive education

On the 25th & 26th of July, 2017, the Nigerian Academy of Science in conjunction with the Education Relief Foundation (ERF) organized a regional (sub-saharan Africa) stakeholders' consultative meeting on balanced and inclusive Education; the meeting aimed at examining the possibilities for cooperation and partnership, and to establish a basis for complementary and synergistic action. This meeting was chaired by the President of NAS, Professor Mosto Onuoha FAS and the President of ERF, Sheikh Manssour Bin Mussallam at the Sheraton Hotel and Towers Ikeja, Lagos.

In her keynote address, the Vice President of the Nigerian Academy of Science, Professor Ekanem Braide FAS said it would be necessary to promote interdisciplinary and intersectoral collaboration and coordination in addressing reforms in the education sector. She emphasized the necessity of



intensifying advocacy to leaders at all levels for a change in mindset which will make it easy for them to regard resources allocated to the education sector as an investment and not expenditure.

The meeting provided recommendations on young people's development through balanced and inclusive education in the context of the rapidly developing socio-cultural and economic environment and adequate training of teachers in inclusive education pedagogies to support a culturally-responsive school environment in the African context.

Participants at this meeting were experts delegated by the Ministry of Education in Namibia, Nigeria and Uganda, International Council for Science (ICSU), South Africa and from the Network of African Science Academies (NASAC), Kenya. Other participants were from Save the Children, Nigeria, representatives from the L'Académie Nationale des Sciences arts et lettres du Bénin (ANSALB); as well as some journalists.

3.10 Annual Appreciation Luncheon for Science Journalists

The Academy hosts an annual luncheon in honour of science journalists. On Wednesday, 11th of August, 2017, science journalists gathered at Sheraton Hotel, Ikeja Lagos to listen to Dr. Isah Mommoh - the keynote speaker at the event. Dr. Mommoh, who was the Head, Communication and Media Enterprise Department at the Pan Atlantic University spoke on the topic "Scientific journalism for award winning innovation & national development". Dr. Isah Mommoh told the audience at the event that Nigerian journalism and mass communication needs to focus more on science reporting, coverage, features and analysis. He charged the Nigerian Academy of Science to organize annual award ceremonies sponsored by leading national & international firms, bodies, groups, institutions and governments for scientific advancements denoting national developmental steps. Dr. Isah Mommoh advised the Academy to incorporate paper presentations, exhibitions, seminars and workshops; and award winners should become guests at subsequent levels and events.



Guest of Honour, Mr. Donald Duke (former Governor of Cross River State) and Professor Mosto Onuoha FAS (left)

At this year's annual luncheon, Mr. Tunde Ajaja of Punch Newspaper received the Nigerian Academy of Science Prize for the Science Journalist of the Year 2016 (Print Category). Mr. Ajaja's entry was titled "One Physician to 3,500 Patients, Yet Nigerian Doctors Beg for Posting" (Part I); and "Nigerian Hospitals of Few Specialists Where Doctors Still Beg for Training" (Part II). The prize comprised a plaque, a computer tablet, and a cash prize of N200,000 (two hundred thousand Naira only). Mr. Mojeed Alabi of New Telegraph newspaper was the runner-up for the print category. Mr. Alabi's entry was titled "Pollution: Death Hovers on Ile-Ife" - I&2. He received a computer tablet and a cash prize of N50,000 (fifty thousand Naira only)



The yearly awards -now in its seventh year, are endowed by the Nigerian Academy of Science to promote excellence in science and science-related journalism. The entries are assessed based on creativity, originality, relevance, research, language, angles/areas covered, understanding of the subject, and information to educate. The winners, in their respective responses, with excitement, thanked the Academy for encouraging them in their pursuit of excellence in science journalism and urged other science journalists to send in their entries for future awards.

Guests in attendance at this ceremony included a NAS' Foundation Fellow, Professor Sylvester Adegoke FAS, Academy's President, Professor Mosto, Onuoha FAS, Academy's Public Affairs Secretary, Professor Sunday Atawod, FAS, and Rector of the Nigerian Institute of Journalists (NIJ), Mr. Gbemiga Ogunleye.



NAS Science Award winners displaying their awards to the general public

3.11 Retreat for Nasarawa State Legislators

The relationship between the Nigerian Academy of Science and Nasarawa State government was emphasized at a partnership retreat with the state legislators organized by the Academy on the 26th of September, 2017 at Ta'al Hotel, Lafia, Nasarawa State. The Academy's Vice-President, Professor Ekanem Braide FAS, in her welcome remarks highlighted the long standing relationship between the

state and NAS; with the State being the beneficiary of two of its projects; the Schlumberger Excellence in Education Development (SEED) project, and the Youth Development and Reproductive Health Project. She stressed the important role played by legislators, which is crucial for the progress of the state. She enjoined the state to continue investing in the youth, as it is a rewarding venture.

Nasarawa State was declared a 'youth-friendly state' by the Deputy Speaker of the House, Rt. Hon. Ibrahim Balrabe Abdullahi. He pledged the continued support of the state legislature for the project(s) whenever needed. Abdullahi highlighted the state's continued support for youth development, with a recent announcement of jobs for fresh graduates in the state. In conclusion, he declared the retreat open.

Sessions at the retreat were on highlights of the State's Action Plan (on youth development), leadership and governance, policy formulation, implementation, and legislative processes, getting research into policy and practice (GRIPP), managing political and socio-cultural interference in policymaking, and Intersectoral collaboration in policymaking and implementation.

Participants at the retreat included representatives from the Nigerian Academy of Science and some legislators of the Nasarawa State Government. The project is funded by Ford Foundation



3.12 Retreat for senior staff of the Nasarawa State House of Assembly

The Nigerian Academy of Science and Nasarawa State government held a retreat for senior staff of the Nasarawa State House of Assembly on the 27th of September, 2017 to reintroduce the concepts and components of policymaking as important tools for ensuring order and progress in the state.

The Project Lead, Professor Akinyinka Omigbodun FAS, was in attendance to give a goodwill message on behalf of the Academy. He stressed the importance of investing in the youth and engaging them in productive activities; so they do not end up constituting a nuisance to the society. He also encouraged team work for development; given the critical role senior staff play in the policymaking and implementation processes in the state.

The Clerk of the House, Mr. Ego Maikeffi Abashe, on behalf of the management staff thanked the Academy for the opportunity afforded the team as well as the leadership of the state. Sessions at this retreat were on policy formulation, implementation, and legislative processes, managing political and socio-cultural interference in the policymaking process, intersectoral collaboration in policymaking and implementation, highlights of the state's Action Plan on youth development, leadership and governance, and getting research into policy and practice (GRIPP).



Winner, Science Journalist of the year 2016, Mr. Tunde Ajaja (2nd left) facing the congregation at the Award ceremony held in Lagos

3.13 The Nigerian Academy of Science secures partnership with Nasarawa State Government

On Thursday 28th of September 2017 at Ta'al Hotel, the Nasarawa State government and the Nigerian Academy of Science launched the Nasarawa State Family Life Health Education (FLHE) Curriculum in Lafia, as an output of engagement with the state government in a youth development & reproductive health project.



L-R: Dr. Jonathan Fanton, President, American Academy of Arts and Sciences, Professor Mosto Onuoha, FAS, President, The Nigerian Academy of Science, Mr. Donald Duke, former Governor of Cross River State

The President of the Nigerian Academy of Science, Professor Mosto Onuoha FAS, in his welcome address, thanked the State government for receiving and supporting the project. Also thanking members and staff of the House of Assembly for participating enthusiastically in the retreat held before the stakeholders' meeting, Onuoha stressed the significance of the youth, stating that most of the country's problems can be traced to their neglect. He restated the Academy's commitment to the growth, acquisition, and dissemination of scientific knowledge to solve issues of national relevance.



The Governor of Nasarawa State, who was represented by the Commissioner for Education, Mr Aliyu A Tijani, highlighted the efforts of the Ministry of Education, and the Nasarawa State government to improve the plight of youth in the State. He stated that the government of Nasarawa is youth-friendly, and expressed high optimism that the project outcomes will be sustained.



Guest of Honour, Mr. Donald Duke (former Governor of Cross River State) shakes hand with Professor Mosto Onuoha FAS while Vice President Ekanem Braide, FAS cheers on at the Academy's Anniversary Dinner

The Nasarawa State Project Liaison, Mr Abari Aboki, in his brief remarks commended the

Academy's support for the project, and enumerated the milestones that have been achieved. Professor Akinyinka Omigbodun FAS, the Project Lead, gave an overview of the project, highlighting activities, achievements, and key findings. On behalf of the Academy, he assured participants that the Academy's pool of experts remain willing and available to work with Nasarawa State in the future.

Some government officials who gave remarks were Chief Mrs. Mary Enwongulu, the Commissioner of Women Affairs and Social Development. She stated that the Ministry had been working on various initiatives that are in line with the objectives of the projects. The Chair, House Committee on Education, Science, and Technology; Hon. Daniel Ogazi, was also in attendance and gave some remarks. He congratulated all partners on the conclusion of the projects, and reaffirmed commitment to the youth by the state.

3.14 Celebration of 40 years as 'Voice of Science' in Nigeria

For the past 40 years, the Academy brought scientific knowledge to positively guide policies/strategic direction of the country. In celebration, the Academy held a symposium on

Tuesday, 14th of November, 2017 in Abuja. The symposium with the theme, "The evolution of the Nigerian Academy of Science (NAS), and its role in the science-policy dialogue/nexus" had in attendance Fellows of the Academy, representatives of the national academies in Africa, well as policymakers, and other stakeholders.



Some Past Presidents of the Academy displays their plaque of stewardship to the audience at the NAS anniversary dinner.

- R-L: Professor Oyewale Tomori FAS (Past President), Professor Oye Ibidapo-Obe FAS (Past President), Professor Mosto Onuoha FAS, Mr. Donald Duke, Professor Umaru Shehu FAS, (Past President), Professor Gabriel Ogunmola FAS, (Past President), Professor Sunday Atawodi FAS, Public Affairs Secretary, NAS

There was a panel discussion, followed by an interactive session, which was chaired by the President of the Academy, Professor Mosto Onuoha FAS. Members of the panel were Professor Gabriel Ogunmola FAS, who is a past President of the Academy, and Professor Marte Hussaini FAS.



Following the symposium, an anniversary dinner was held at the Sheraton Hotel Abuja. The Guest of Honour, Mr. Donald Duke (former Governor of Cross River State) congratulated the Academy for achieving this milestone and wished the Academy fruitful deliberations in hosting other African Science Academies in the course of the week. Activities at the dinner included presentation of awards for exemplary leadership to past presidents of the Academy, exemplary partnership awards to some partners of the Academy, and a “Long Service Award” to Mr Nicholas Ibeh who has been in the service of the Academy since 1982.

In attendance at the dinner were Dr. Jonathan Fanton, President of the American Academy of Arts & Sciences (AAAS), NAS Foundation Fellow and Past President, Professor Umaru Shehu FAS, and participants from other African science academies, the International Council for Science (ICSU), and the Network of African Science Academies (NASAC).

3.15 NAS hosts the 13th Annual Meeting of African Science Academies (AMASA-13)

The Academy hosted the 13th Annual Meeting of African Science Academies (AMASA-13) in Abuja on the 15th and 16th of November, 2017. The scientific conference was titled 'Science, Technology and Innovation: Education and Manpower Development in Africa'. The Chairman, Senate Committee on Science and Technology, Professor (Senator) Robert Boroffice in his opening address discussed the solutions to STI education and manpower



Members of the high table at the AMASA-13 conference hosted by the Nigerian Academy of Science in Abuja

development issues in Africa. The Vice-President, Network of African Science Academies (NASAC), Professor Yousuf Mourdabocus, in his welcome address was pleased to be part of the meeting and welcomed all participants present. Goodwill messages were delivered from different stakeholders who included the Honourable Minister of Science and Technology, Dr Ogbonnaya Onu, who was represented by the Director General of the Energy Commission of Nigeria (Prof. Eli Bala), Mr. Ifeanyi Nwagbogu, Group Managing Director of Schlumberger, and Mr. Bamidele Makanjuola, Chairman of Vitafoam Plc.

The scientific conference also discussed how science, education, and manpower development can accelerate Africa's growth to meet globally acceptable standards. It also discussed long term engagement plans for African science academies and their respective governments/policy makers to work together towards a new era of STI development for a more sustainable and self-reliant Africa.

The AMASA-13 conference was supported by the International Network for Government Science Advice (INGSA), Network of African Science Academies (NASAC), American Academy of Arts & Sciences, GenderInsite, Nigeria LNG Limited, Schlumberger, University of Ibadan, Federal University of Technology Minna, Nnamdi Azikiwe University Awka, Ecobank, and University of Medical Sciences Ondo.



Participants included scientists from African academies of science, policymakers, as well as international development partners. Other participants included young scientists who were grantees of LIRA (Leading Integrated Research in Africa) programme of the International Council for Science (ICSU) and the Network for African Science Academies (NASAC), inter-government and non-governmental organizations, researchers and research administrators.



Some International participants pose with members of the Nigerian Academy of Science at the celebration of its 40th Anniversary

3.16 NAS hosts Inter-Academy Partnership for Research (IAP-R) Working Group Meeting

The Working Group (WG) of the Inter-Academy Partnership for Research (IAP-R) on 'Harnessing science, engineering, and medicine to address Africa's challenges' met in Abuja, Nigeria on the 18th and 19th of November 2017, being hosted by the Nigerian Academy of Science (NAS). The WG, co-chaired by Professors Robin Crewe and Oyewale Tomori FAS reviewed the progress of the project so far and discussed how to help the academies plug into the African Union's STISA 2024 and the SDGs.

3.17 INGSA and NAS host science advice Workshop

The Nigerian Academy of Science (NAS) collaborated with the International Network for Government Science Advice (INGSA) to host a science advice workshop for representatives of African national science academies. The workshop held as the usual Learning Collaborative workshop of the Annual Meeting of African Meeting of African Science Academies (AMASA) which was being hosted by NAS.

For a day and a half (on the 13th and 14th of November 2017), participants were taken through the principles and processes of science advice. After being declared open by the NAS President, Prof. Mosto Onuoha FAS, an overview of science advice was presented by Prof. Stephen Goldson

from the INGSA headquarters in New Zealand. This was followed by group work/discussion on three case studies interspersed with presentations by Matthew Wallace of the International Development Research Centre (IDRC), Canada, and Simone Grego of UNESCO. The workshop ended with presentations by members of the steering committee of INGSA-Africa, Madiagne Diallo and Doyin Odubanjo (INGSA-Africa Chair). Other



NAS President, Professor Mosto Onuoha FAS welcoming participants to the AMASA-13 Conference



steering committee members who served as facilitators were Sameh Soror, Justine Nzweundji, Richard Glover, and Christian Acemah. Also in attendance at the workshop were young researchers from across Africa

3.18 15th National Council on Science and Technology

Professor Segun Ekundayo FAS represented the Academy at the 15th National Council on Science and Technology, held at the Imaguaro College Hall, Benin City, with the theme 'Nigerian economy driven by science, technology, and innovation'. The meeting held between the 11th and 15th of December 2017.

3.19 Nigeria-Portuguese Scientists Conference 4-5th Dec 2017

The President of the Nigerian Academy of Science, Professor Mosto Onuoha FAS was invited by the Honourable Minister of Science and Technology, Dr. Ogbonaya Onu as a special guest of honour at the First Nigerian/Portuguese Scientists Conference in Abuja on the 4th and 5th of December 2017. The President, who was represented by Professor Salihu Mustafa FAS, gave a goodwill message at the conference. In his message, he assured the participants that the Nigerian Academy of Science is always ready to collaborate with the Federal Ministry of Science and Technology towards the promotion, development, and advancement of science and technology in Nigeria.

The conference themed 'Science, Technology, and Nigeria/Portugal Collaborative Framework" is a fallout of the Memorandum of Understanding between the Nigerian Federal Ministry of Science and Technology and the Portuguese Ministry of Science, Technology and Higher Education towards strengthening the capacity of scientists, engineers and allied professionals within the two countries as well as promote technology acquisition for sustainable development.

4.0 International activities and events - 2017

This section provides a brief overview of some international events/activities, involving the Academy during the course of 2017

4.1 ICSU/ISSC Strategy Working Group

Professor Chinedum Babalola FAS was selected to serve on the Strategy Working Group (SWG) for the proposed merger of the International Council for Science (ICSU) and the International Social Science Council (ISSC). The 11-member SWG was constituted to develop a high level strategy for the proposed new organization if the merger between ICSU and the ISSC passes, and was chaired by Vice-Presidents of both organizations. They held meetings at the headquarters of ICSU in Paris (30 January – 1 February and 30 – 31 May, 2017) culminating in a strategy document which was adopted at the ICSU general assembly in Taipei in October 2017.

4.2 IAP meeting on Food and Nutrition Security and Agriculture

The Leopoldina (German national academy) hosted the IAP plenary project meeting on 'food and nutrition security and agriculture' at her headquarters in Halle, Germany from the 2nd to the 5th of April 2017. Professor Oyebiodun Longe FAS, who chairs the NAS Sectional Committee on Agriculture, represented the Nigerian Academy of Science at the meeting.



4.3 Expert committee on urban health in East Africa

The Executive Secretary of NAS, Dr Oladoyin Odubanjo, was invited to serve on an expert consensus study committee on urban health in East Africa by the Uganda National Academy of Sciences. The committee met in Kampala from the 18th to the 20th of September 2017 and examined the factors affecting urban health across East Africa, and proffered recommendations for improving same.

4.4 New steps in critical care medicine workshop

Professor Temitayo Shokunbi FAS served as a member of the steering committee for the workshop on 'New Steps in Critical Care Medicine' held in Tbilisi, Georgia on the 21st and 22nd of September 2017. The workshop was organized by the Georgian Academy of Medical Sciences and the Inter-Academy Partnership for Health (IAP-Health).



Foundation Fellow & Past President of the Nigerian Academy of Science, Professor Umaru Shehu, FAS welcomed by Professor Ekanem Braide, FAS and Mr. Donald Duke

The workshop, which had over 100 participants, considered how countries are responding to advances in critical care medicine, identified research gaps for critical care medicine and suggested solutions that may be taken forward at national and regional levels.

4.5 NAS attends African European Mediterranean Academies for Science Education (AEMASE) meeting

The AEMASE (African European Mediterranean Academies for Science Education) network organized its third international conference in Paris at the Académie des Sciences on 3-4 October 2017. The Nigerian Academy of Science was represented by the President, Professor Mosto Onuoha FAS and the Programme Manager, Mrs Scholastica Lan.

The AEMASE network which was launched in 2013 by the science academies of France, Italy, Morocco and Senegal, and the Egyptian Bibliotheca Alexandrina has held two meetings in Rome (2013) and Dakar (2015). The network sensitizes decision makers and other partners of educational systems about the urgent need to improve school science (STEM) education across the African-Mediterranean-European (AME) region.

The conference was held at the Institut de France and was declared open by the Minister of Education of France, Jean Michel Blanquer.

In attendance were academicians and scientists from Belgium, Bosnia-Herzegovania, Burkina-Faso, Cameroun, Egypt, Finland, France, Germany, Ghana, Italy, Ireland, India, Kenya, Malaysia, Morocco, the Netherlands, Nigeria, Niger, Norway, Senegal, South Africa, Spain, Sweden, Tanzania, Tunisia, Ukraine, the United Kingdom and the United States.



Participants at the AEMASE III Conference

4.6 Strengthening clinical research capacity in LMICs
The UK Academy of Medical Sciences (UKAMS) and the Inter-Academy Partnership for Health hosted a workshop on strengthening clinical research capacity in low and middle income countries (LMICs) in London on the 3rd and 4th of July 2017. Professor Fola Esan FAS represented NAS at the workshop, the output of which would inform future work of the UKAMS and the IAP-Health.

4.7 Workshop on academies' communications, outreach and distribution of science-based advice
Administrative Officer (Communications), Miss Mobolaji Dasaolu attended the Capacity Enhancement Workshop on Academies' Communications, Outreach and distribution of science-based advice to policymakers and the public held on the 6th and 7th of July, 2017 at Hilton Hotel, Nairobi Kenya. The meeting was hosted by the Network of African Science Academies (NASAC) with support from Leopoldina Nationale Akademie der Wissenschaften

4.8 32nd ICSU General Assembly

From the 23rd to the 26th of October 2017, the general assembly of the International Council for Science (ICSU) was held in Taipei, Taiwan. As part of the general assembly, there was a historic joint meeting held with the International Social Science Council (ISSC) where the members voted overwhelmingly to merge the two organizations. Professor Mosto Onuoha FAS attended the general assembly as the representative of NAS which is a national member of ICSU. Dr Oladoyin Odubanjo was also invited by ICSU to present the activities of the African chapter of the International Network for Government Science Advice (INGSA) to the assembly.

5.0 NEWS ON MEMBERS

1. (a) Professor Oyewale Tomori FAS completed his four-year tenure, between January 2013 and January 2017, as President of the Nigerian Academy of Science.
(b) Professor Oyewale Tomori FAS is among the distinguished scientists across Africa featured in a publication released by the Department of Science and Technology of South Africa. The new publication is titled 'Science in Africa'. Professor Tomori is the Academy's immediate past president.
(c) Professor Oyewale Tomori FAS was inducted a member of the Class 2016, of the US National Academy of Medicine on the 14th of October, 2017 in Washington DC, USA.
2. (a) Professor Babajide Alo FAS was appointed and designated by the Senate of the University of Lagos as Distinguished Professor in the university. The honour was in recognition of continuing excellent scholarly contributions and academic leadership in the university and for bringing distinction to the university through contributions in promoting and advancing knowledge in the society from quality research, teaching, and mentoring of young scholars.



- (b) Professor Babajide Alo FAS served as technical expert to the Nigerian government delegation at the third session of the Preparatory Committee (PrepCom) on the elements of a draft text of an international legally binding instrument (ILBI) under the UN Convention on the Law of the Sea (UNCLOS) on the conservation and sustainable use of marine biodiversity of areas beyond national jurisdiction (BBNJ) between Monday, 27 March 2017 and April 7, 2017 at the UN Headquarters in New York.
- (c) Professor Babajide Alo FAS led the federal government delegation to UN Environment Programme Conference of Parties. He gave a lead paper titled "The need for science policy interface for BRS conventions"
- 3. Professor Kayode Adebawale FAS was admitted into the Senior Executive Course 39 (2017) of the National Institute for Policy & Strategic Studies, Kuru towards the conferment of Member of National Institute (mni)
- 4. Professor Akinyinka Omigbodun FAS was conferred with a Fellowship of the Royal College of Obstetricians and Gynaecologists (FRCOG) Ad Eundem at the RCOG Congress 2017 held in Cape Town, South Africa on the 19th of March, 2017. Professor Omigbodun is the Academy's Chairman, Publications Committee.
- 5. (a). Professor Oluwole Familoni FAS was appointed as a member of the governing council of the Institute of Chartered Chemists of Nigeria (ICCON) by the Minister of Health on the 20th of April, 2017.
(b). Professor Oluwole Familoni FAS was elected by the Senate of University of Lagos as its representative on Council for a period of four (4) years on the 28th of April, 2017
(c). Professor Oluwole Familoni FAS was appointed as member of the Governing Council of the Federal Polytechnic, Ile-Oluji, Ondo State by the President and Commander-in-Chief of the Armed Forces of the Federal Republic of Nigeria, Muhammad Buhari GCFR on the 11th of May, 2017
(d) Professor Oluwole Familoni FAS celebrated his 60th birthday thanksgiving service on the 20th of December, 2017 at Chapel of Christ of Light, Lagos
- 6. Professor Uche Amazigo FAS is among the distinguished scientists across Africa featured in a publication released by the Department of Science and Technology of South Africa. The new publication is titled 'Science in Africa'.
- 7. (a) Professor Adeyinka Falusi FAS is among the distinguished scientists across Africa featured in a publication released by the Department of Science and Technology of South Africa. The new publication is titled 'Science in Africa'
(b) Professor Adeyinka Falusi FAS is among the distinguished scientists across Africa featured in a publication released by Network of African Science Academies (NASAC). The publication is titled 'Women in Science: Inspiring Stories in Africa'
(c) Professor Adeyinka Falusi FAS was presented the Organization For Women In Science For The Developing World (OWSD) Award Of Excellence in recognition of her contribution to biomedical research especially in the area of Sickle Cell Disorders at the 3rd International Conference and Scientific Exhibition Nigeria Chapter hosted by Benson Idahosa University, Benin City on the 1st of August, 2017
- 8. Professor Babatunde Osotimehin FAS died in New York on the 5th of June, 2017. He was a former Minister of Health, and former Director General, National Agency for Control of AIDS (NACA). Professor Osotimehin was subsequently appointed Director General, United Nations Population Fund (UNFPA) in 2010.



- (a) Professor Mosto Onuoha FAS celebrated his 70th birthday ceremony and retirement from the UNN on the 13th of July, 2017 at the Princess Alexandra Auditorium, UNN. Professor Onuoha is the Academy's President.
- (b) Professor Mosto Onuoha FAS celebrated the conferment of the title and status of Professor Emeritus on him on Saturday, 2nd of December 2017 during the Convocation Ceremony of the University of Nigeria Nsukka.
10. Professor Olanike Adeyemo FAS was elected as the Deputy Vice-Chancellor (Research, Innovation and Strategic Partnerships) of the premier university in Nigeria (University of Ibadan) by the Senate on March 8th with an overwhelming vote of 371 to 41.
11. Professor Vincent Olunloyo FAS passed on to glory on Friday, 13th of October, 2017. Professor Olunloyo was a Professor of Engineering at the University of Lagos.
12. Professor Chinedum Peace Babalola FAS was appointed and inaugurated as the Vice Chancellor of Chrisland University, Abeokuta, Ogun State. Professor Babalola is a Professor of Pharmacy/Pharmacokinetics.
13. Professor Alexander Animalu FAS celebrated his 80th birthday and book launch on the 11th of November, 2017 at Christ Church Chapel, University of Nigeria, Nsukka. Professor Animalu is a past President of NAS.
14. Professor Oluwatoyin Ogundipe FAS was appointed the 12th substantive Vice-Chancellor of University of Lagos. Professor Ogundipe, a Professor of Botany, was the Deputy Vice-Chancellor (Academics and Research) of the university.
15. Professor Moji Christianah Adeyeye FAS was appointed by, President Muhammadu Buhari GCFR, as the Director-General of the National Agency for Food and Drug Administration and Control, NAFDAC.
- She is the founder of Drugs for AIDS and HIV Patients, a nonprofit organization committed to prevention, education, care and treatment of HIV/AIDS children in Nigeria. Professor Adeyeye is a Professor of Pharmaceutics, Manufacturing Science and Drug Product Evaluation, College of Pharmacy, Roosevelt University, Schaumburg, IL and Chair, Department of Biopharmaceutical Sciences, College of Pharmacy, Roosevelt University, Schaumburg, IL
16. Professor Andrew Jonathan Nok FAS passed on to glory on the 21st of November, 2017. Professor Nok, who was a Professor of Biochemistry at the Ahmadu Bello University Zaria, was the Kaduna State Commissioner of Education, Science and Technology at the time of his death. He was the immediate past Public Affairs Secretary of the Nigerian Academy of Science.
17. Professor Dennis Agbonlahor FAS was re-appointed as the African Society for Laboratory Medicine (ASLM) Ambassador in Nigeria for three-year tenure by the board and management of the ASLM. The re-appointment is to express ASLM's appreciation for the valuable services he voluntarily rendered over the past few years in Nigeria as an ASLM Ambassador. This appointment took effect on the 8th of November, 2017. The ASLM was established in 2011 as a pan-African professional organization charged with the responsibility of advocating the critical role and needs of laboratory medicine and networks across Africa.
18. Professor Lateef Salako FAS passed on to glory on the 8th of December, 2017 at the age of 82. Professor Salako was a past president of the Academy and Emeritus Professor of Pharmacology at the University of Ibadan
19. Professor Isa Hussaini FAS was elected as a Fellow of the African Academy of Sciences



- 20 (a). Professor Effiom Antia FAS was invited for presentation at the 10th Forum of laureates of the Nigerian National Order of Merit. He made a presentation on "The Role and Potential of Nigeria's Coastal Marine Environment in Nigeria's Socio-Economic Development" at the Forum which was held on the 5th of December, 2017 in Abuja
- (b). Professor Effiom Edem Antia FAS was elected as a Fellow of the African Academy of Sciences
- 21 (a) Professor Soga Sofola FAS was elected President of the Association of Physiological Sciences (AAPS) at the 5th Congress in Lagos
- (b) Professor Soga Sofola FAS was elected into the Council of the International Union of Physiological Sciences (IUPS) at the 38th Congress in Rio De Janeiro, Brazil in August, 2017

6.0 Highlights of the Nigerian Young Academy (NYA) activities

This section covers the major events that NYA members have been involved in just over one year (late 2016 to the end of 2017). The NYA was founded following a workshop convened in 2010 by the Nigerian Academy of Science in collaboration with the Nigerian Academy of Engineering and the Nigerian Academy of Education. The NYA receives support from NAS.

6.1 Introduction

The Nigerian Young Academy (NYA) is a unified platform for interaction among brilliant young researchers, below the age of 45 years in Nigeria, who are from various research disciplines and regions. The Academy seeks to nurture outstanding and aspiring youthful academics and professionals towards improving the state of the nation. The NYA recognizes excellence among young researchers and promotes the application of collective research findings for the improvement of the quality of life of the Nigerian society. Additionally, it plays a crucial role in building inspirational figures for a new generation of researchers. The NYA has her core values entrenched in integrity and excellence in research, and fostering research collaboration among young researchers.

6.2 NYA 7th General Assembly and National Conference

As part of activities for the year 2017, the NYA in collaboration with Federal University of Petroleum Resources (FUPRE) and generous support from the Nigeria Academy of Science organized its 7th General Assembly (GA) and National Conference. This year's Conference with the theme: "Combating recession through research and innovation: leveraging on the Nigerian content" was held at the FUPRE Campus, Effurun, Delta State, from August 7 – August 9, 2017. In all, there were 22 oral and 14 poster presentations made during the conference in addition to the very stimulating plenary lectures and keynote address.

6.3 Award of Young Scientist Prizes (2017)

Of the five categories of National Young Scientist Prizes advertised for the year 2017, there were winners in only three. As part of activities marking the conference, prizes were presented to these winners as stated below:



Prof. Oyewale Tomori National Young Scientist Prize for Research in Microbiology; the winner was Dr. Chinwe Chukwudi of the University of Nigeria, Nsukka.

Prof. Friday E. Okonofua National Young Scientist Prize for Research in the Health Sciences; the winner was Dr. Enitome Bafor of the University of Benin, Benin City.

Prof. Kayode Adebawale National Young Scientist Prize for Research in the Chemical Sciences; the winner was Dr. Lukman Olasunkanmi of the Obafemi Awolowo University, Ile-Ife.

6.4 Induction of new members (2017)

11 out of the 57 applicants for membership of the NYA in 2017 were found qualified to be admitted after the peer review process. Of these, 9 new members were inducted into the NYA in August 2017. Two inductees, who were unable to make the induction ceremony this year, have appealed to be inducted at a later date and according to the NYA constitution, they will have another chance of doing so at the 2018 GA or otherwise forfeit the current admission. The list of newly inducted NYA members are:

S/No	NAME	INSTITUTIONAL AFFILIATION
1	Dr. Mutiu Idowu Kazeem	Department of Biochemistry, Lagos State University, Ojo
2.	Dr. Luqman Kolawole Abidoeye	Department of Civil Engineering, Osun State University, Osogbo
3.	Dr. Daniel Uhunoma Okuonghae	Department of Mathematics, University of Benin, Benin
4.	Dr. Isaac Oluseun Adejumo	Department of Animal Science, Federal University, Gashua
5.	Dr. Anthony Moses Ugbenyen	Department of Biochemistry, Biological Sciences and Microbiology, Edo University, Iyamho
6.	Dr. Emmanuel Jolaoluwa Awosanya	Department of Veterinary Public Health and Preventive Medicine, University of Ibadan, Ibadan
7.	Dr. Aliyu Muhammad	Department of Biochemistry, Ahmadu Bello University, Zaria
8.	Dr. Oluwabunmi Opeyemi Oyebode	Department of English, Obafemi Awolowo University, Ile-Ife
9.	Dr. Abiodun Adeyemi Egbetokun	Science Policy and Innovation Studies Department, National Centre for Technology Management (NACETEM), Ile-Ife

The current membership of the NYA now stands at 36.



6.5 Exiting Members (Fellows)

At the 5th GA of the NYA that took place in Minna in 2015, it was agreed that members who exit the Academy after serving their five-year membership term should be conferred with the honour of Fellows of the Nigerian Young Academy. Following this decision, the first set of twenty one (21) exiting members of the Academy were thus recognized as Fellows of the Nigerian Young Academy (FNYA) in 2016 during the International Conference and General Assembly that took place at Sheraton hotels, Ikeja, Lagos.

At this year's conference, 10 members who exited the Academy based on the mandatory five-year term of membership were also conferred the honour of Fellows of the NYA.

S/No	NAME	INSTITUTIONAL AFFILIATION
1	Dr. S.O. Abarikwu	University of Port-Harcourt, Port-Harcourt
2.	Dr. M. Abdul-Hammed	Ladoke Akintola Univ. of Tech., Ogbomoso
3.	Dr. M.A. Adebayo	Federal University of Technology, Akure
4.	Dr. A.O. Oluwatope	Obafemi Awolowo University, Ile-Ife
5.	Dr. C. Isaac	Ambrose Alli University, Ekpoma
6.	Dr. A.O. Morakinyo	University of Lagos, Lagos
7.	Dr. E.E.O. Odjadjare	Benson Idahosa University, Benin
8.	Dr. A.K. Oloyo	University of Lagos, Lagos
9.	Dr. Mojisola R. Usikalu	Covenant University, Ota
10.	Dr. Olufunke A. Fayehun	University Of Ibadan, Ibadan

Fellows of the NYA now stand at 31.

6.6 New Executive Committee

During the GA that held on the night of August 9th, 2017, a new set of Executive Committee members to run the affairs of the Academy (NYA) for the next two years were elected. The new Executive members include:

Name	Institutional Affiliation	Post (2017-2019)
Dr. Temitope Olomola	Obafemi Awolowo University, Ile-Ife	President
Dr. Isoken Igbinsosa	University of Benin, Benin	Vice President
Dr. Iyokhoetin Omoruyi	Benson Idahosa University, Benin City	Secretary
Dr. Mutiu Kazeem	Lagos State University, Ojo	Publicity Secretary
Dr. Elijah Adebayo	LAUTECH, Ogbomoso	Treasurer
Dr. Oluwatosin Rotimi	Covenant University, Ojo	Financial Secretary
Mr. Abiodun Egbetokun	National Centre for Tech. Mngt, Ile-Ife	Logistics Secretary
Dr. Emmanuel Odjadjare	Benson Idahosa University, Benin City	Ex-Officio I
Dr. Temitope Jaiyeola	Obafemi Awolowo University, Ile-Ife	Ex-Officio II

6.7 NYA Journal

The official journal of the NYA has been named Annals of Science and Technology (AST). Volume 1 number 1 of AST with nine (9) articles was published in November, 2016 as an open access journal. However, in a bid to attain international reputation, the journal has now moved to De



Gruyter Open, with head office in Berlin, Germany. So the whole of volume 2 will be published on the De Gruyter Open platform very soon.

The Editorial Board of AST is presently driving the proposal for the establishment of an African-owned database for journal indexing, as a means to separate the many predatory journals from the good ones. The NYA hopes this is a project that the Nigeria Academy of Science will be willing to lead on.

6.8 Representation of NYA at Conferences/Meetings

6.8.1 Dr. E.O. Odjadjare represented the NYA at the high-level workshop on energy access in West Africa organized by the SMART village initiative that took place in Abidjan, Côte d'Ivoire in March 2017.

6.8.2 Three members of NYA, namely Drs. S. Abarikwu, A. Morakinyo and E.O. Odjadjare, became fellows of African Science Leadership Programme (ASLP) in a ceremony held at the University of Pretoria, Pretoria, South Africa in March 2017.

6.8.3 The Academy was also represented by Dr. E.O. Odjadjare and Mr. E. Ochuko at the 3rd Worldwide Meeting of Young Academies held in South Africa, July 2017.

6.8.4 As part of events marking the 40th anniversary of the Nigerian Academy of Science, NAS hosted the Annual Meeting of African Science Academies (AMASA-13) in Abuja, November 2017. Seven individuals from the NYA (5 members and 2 fellows), namely, Dr. A. Muhammad, Dr. O. Ekwunife, Dr. I. Adeyanju, Dr. O. Atolani, Dr. G.U. Ebuh, Dr. O.T. Oyeyemi and Dr. T.O. Olomola attended as representatives of the NYA.

6.9 Promotion and appointments of NYA members and Fellows

6.9.1 Members

- (i) Dr. Humphrey Adebayo was appointed Sub-Dean School of Postgraduate Studies, Covenant University, Ota (August 2016 - date). He was also promoted to the rank of Professor at Covenant University (effective December 15, 2017).
- (ii) Dr. Ibraheem Adeyanju was appointed Acting Head, Department of Computer Science and Engineering, Federal University Oye-Ekiti (October 2016 - date).
- (iii) Dr. Raphael Babatunde was promoted to the rank of Associate Professor at University of Ilorin, Ilorin (effective October 1, 2016).
- (iv) Dr. Adejoke Akinyele won a one-year Commonwealth academic fellowship that was utilized at Bangor University, Wales (October 2016 - August 2017).
- (v) Dr. O.M. Kolawole was appointed as the Acting Director, Institute of Molecular Science and Biotechnology, University of Ilorin, Ilorin (November 2017 - date).
- (vi) Dr. Obinna Nwinyi was promoted to the rank of Professor at Covenant University, Ota (effective December 15, 2017).



6.9.2 Fellows

- (i) Dr. I.C. Uzochukwu was promoted to the rank of Professor at Nnamdi Azikiwe University, Awka (effective October 1, 2016).
- (ii) Dr. Abidemi Akindede was elected Sub-Dean College of Medicine University of Lagos (August 2016 - July 2017 and re-elected August 2017 - July 2018). He was also promoted to the rank of Reader (effective February 8, 2017).
- (iii) Dr. Mojisola Usikalu was appointed Acting Head, Department of Physics, Covenant University, Ota (August 2016 - date).
- (iv) Dr. O.S. Adeyemi, was elevated to the rank of Associate Professor at Landmark University, Omu-Aran (effective November 10, 2017).
- (v) Mrs. Damilola Agbalajobi completed her PhD in Political Science at the University of Lagos (November 2017)

6.10 Other Achievements

The NYA won the IAP-CARNEGIE small grant for organizing a workshop for young women in science in West Africa (project lifespan: July 2017 - June 2018)



APPENDIX



LIST OF FELLOWS SINCE INCEPTION

S/N	FELLOWS	SPECIALTY	GENDER	YEAR INDUCTED
1	Adegbola, Anthony A.*	Animal Science	Male	1977
2	Adegoke, O. Sylvester	Geology	Male	1977
3	Akinrele, I.A.	Industrial Chemistry	Male	1977
4	Awachie, J.B.E.*	Zoology	Male	1977
5	Awe, Olumuyiwa	Physics	Male	1977
6	Bassir, Olumbe*	Nutrition & Biochemistry Toxicology	Male	1977
7	Chijioke, Mark O.	Electrical Engineering	Male	1977
8	Emovon, Emmanuel U.	Chemistry	Male	1977
9	Ette, A.I.I.	Physics	Male	1977
10	Fabiyi, Akinyele*	Virology	Male	1977
11	Francis, Theodore Idibiye*	Medicine	Male	1977
12	Ige-Grillo, T. Adesanya*	Anatomy	Male	1977
13	Maduemezia, Awele	Physics	Male	1977
14	Lucas, Adetokunbo O.	International Health	Male	1977
15	Obi, Chike*	Mathematics	Male	1977
16	Ogan, Agu U.	Biochemistry	Male	1977
17	Ogunlesi, Theophilus Oladipo	Medicine	Male	1977
18	Okigbo, Bede Nwoye	Agronomy	Male	1977
19	Onwumechili, Cyril Agodi	Physics	Male	1977
20	Oseni, Anthony Momodu*	Forestry	Male	1977
21	Osuntokun, B. Oluwakayode*	Medicine	Male	1977
22	Oyawoye, Mosobalaje Olaloye	Geology	Male	1977
23	Oyenuga, Victor Adenuga*	Animal Science	Male	1977
24	Tella, Ayodele*	Pharmacology	Male	1977
25	Toye, Samuel Afolabi*	Zoology	Male	1977
26	Ukoli, Frank Mene A.*	Zoology	Male	1977
27	Amenechi, Patrick Iloba*	Chemistry	Male	1977
28	Njoku-Obi, Augustine N. U.*	Microbiology	Male	1977
29	Adadevoh, Babatunde Kwaku*	Chemical Pathology	Male	1977
30	Oladapo, Ifedayo Olawole*	Civil Engineering	Male	1977
31	Olaniyan, Caleb Isaac Olawole*	Zoology	Male	1977
32	Abubakar, Iya	Mathematics	Male	1977
33	Yoloye, Emmanuel Ayotunde	Science Education	Male	1977
34	Alasoadura, Samuel O.*	Botany	Male	1977
35	Ezeilo, James Okoye Chukwuka*	Mathematics	Male	1977
36	Osuide, Gabriel Ediale	Neuropharmacology	Male	1977
37	Osunkoya, Babatunde Olusiji*	Immunology	Male	1977



LIST OF FELLOWS SINCE INCEPTION

S/N	FELLOWS	SPECIALTY	GENDER	YEAR INDUCTED
38	Udekwa, Fabian Anene Osita*	Thoracic Surgery	Male	1977
39	Ekong, Donald Efiong Udo*	Chemistry	Male	1977
40	Kodilinye, Herbert C.	Ophthalmology	Male	1977
41	Shehu, Umaru	Health Resources & Management	Male	1977
42	Boyo, Alexander Eyimofe*	Pathology	Male	1977
43	Okonkwo, Samuel N.C.*	Botany	Male	1979
44	Anya, Oko Anya	Zoology	Male	1979
45	Okafor, Nduka	Microbiology	Male	1979
46	Okogun, Joseph Ibomein	Organic & Natural Products Chemistry	Male	1979
47	Enwonwu, Cyril Obiora	Medicine	Male	1979
48	Taylor, Timothy Ajibola*	Agriculture	Male	1980
49	Akinkugbe, Oladipo Olujimi	Medicine	Male	1980
50	Animalu, Alexander Obiefoka Eukora	Physics & Mathematics	Male	1980
51	Edozien, Joseph Chike	Medicine (Chemical Pathology)	Male	1980
52	Ajakaiye, Deborah Enilo	Physics	Female	1980
53	Olubummo, Adegoke*	Mathematics	Male	1980
54	Orangun, Cornelius O.*	Civil & Structural Engineering	Male	1981
55	Salako, Lateef Akinola	Medicine (Pharmacology)	Male	1981
56	Eze-Uzomaka, Osondu John	Civil Engineering	Male	1981
57	Iyahan, Sunday Osarumwense	Mathematics	Male	1981
58	Esan, George Joseph Folayan	Medicine	Male	1982
59	Okoye, Samuel Ejikeme*	Physics	Male	1982
60	Imevbore, Anthony Malomo Adia	Zoology	Male	1983
61	Amazigo, John Chukwuemeka	Mathematics	Male	1985
62	Kogbe, Cornelius Adedapo	Geology	Male	1985
63	Adesola, Akin O.*	Medicine (Surgery)	Male	1985
64	Enahoro, Henry Ehikpehale*	Mechanical Engineering	Male	1985
65	Okafor, Charles Okolo	Chemistry	Male	1986
66	Nwokolo, Chukwuedu*	Medicine	Male	1986
67	Makanjuola, Gabriel Ayodele	Agricultural Engineering	Male	1986
68	Ogunmola, Gabriel Babatunde	Biophysical Chemistry Biotechnology	Male	1987
69	Adeloye, Adelola	Medicine	Male	1987
70	Ewvaraye, Andrew Oteku	Physics	Male	1987
71	Oke, Olusegun Ladimeji	Nutritional Chemistry	Male	1988
72	Faniran, Joshua Ajadi	Chemistry	Male	1988
73	Olunloyo, Vincent Olusegun S.	Engineering	Male	1989
74	Okali, David Uke Ukiwe	Forest Biology, Environment & Conservation	Male	1989
75	Kuku, Aderemi Oluyomi	Mathematics	Male	1989



LIST OF FELLOWS SINCE INCEPTION

S/N	FELLOWS	SPECIALTY	GENDER	YEAR INDUCTED
76	Adekola, Sulaiman Adeniyi	Electrical/Electronic Engineering	Male	1990
77	Essien, Etim Moses	Haematology	Male	1990
78	Yayock, Joseph Yusuf	Agriculture & Agronomy	Male	1990
79	Mohammed, Idris	Medicine	Male	1990
80	Ezekwe, Gordian Obuneme*	Engineering	Male	1991
81	Okpako, David Tinakpoewan	Pharmacology	Male	1991
82	Okon, Ephraim Efiog	Engineering Science	Male	1991
83	Tomori, Oyewale	Virology	Male	1991
84	Tejumola, Haroon Oladipo*	Mathematics	Male	1991
85	Acholonu, Alexander D. Wozuzu	Parasitology/Microbiology	Male	1992
86	Aminu, Jibril Muhammadu	Medicine	Male	1992
87	Ransome-Kuti, Olikoye*	Medicine/Paediatrics	Male	1992
88	Mshelia, Elijah D.	Theoretical Nuclear Physics	Male	1994
89	Okonkwo, Paul O.	Molecular & Ethnopharmacology	Male	1994
90	Nwagwu, Mark	Zoology	Male	1994
91	Susu, Alfred A.	Chemical Engineering	Male	1994
92	Ngoddy, Patrick Obi	Agric & Food Engineering	Male	1996
93	Gadzama, Njidda M.	Zoology	Male	1997
94	Odugbemi, Tolu	Parasitology/Microbiology	Male	1997
95	Olaniyan-Taylor, Oladunni G.	Chemical Pathology	Female	1997
96	Nnaji, Bartholomew O.	Industrial Engineering	Male	1997
97	Aimakhu, Vincent E.*	Obstetrics & Gynaecology	Male	1998
98	Osuntokun, Olabopo	Medicine/Ophthalmology	Female	1998
99	Anosike, Emmanuel O.	Enzymology/Protein Chemistry	Male	1998
100	Odigboh, Emmanuel Uche	Agricultural Engineering	Male	1998
101	Okeke, Pius N.	Astronomy & Space Science	Male	1998
102	Onuoha, K. Mosto	Pure & Applied Geophysics	Male	1998
103	Attah, Edward 'B.	Human Pathology	Male	1999
104	Okeke, Cajetan Ezeani	Physics	Male	1999
105	Salawu, Raifu Isola	Electrical/Electronic Engineering & Renewable Energy	Male	1999
106	Wambebe, Charles O.	Pharmacology	Male	1999
107	Olumide, Yetunde Mercy	Medicine/Dermatology	Female	2000
108	Akeju, Timothy A. I.	Civil Engineering	Male	2000
109	Ene-Obong, E. Efiom	Plant Breeding and Crop Biotechnology	Male	2000
110	Esogbue, Augustine O.	Intelligent Systems & Control Engineering	Male	2000
111	Petters, Sunday W.	Geology	Male	2000
112	Sambo, Abubakar S.	Mechanical Engineering	Male	2002
113	Ekeke, Gabriel I.*	Biochemistry	Male	2002
114	Egbelu, Pius J.	Industrial Engineering	Male	2002



LIST OF FELLOWS SINCE INCEPTION

S/N	FELLOWS	SPECIALTY	GENDER	YEAR INDUCTED
115	Mustafa, Salihu	Civil/Water Resources Engineering	Male	2002
116	Ajayi, Gabriel O.*	Physics/Electro.& Elect. Engineering	Male	2004
117	Salimonu, Lekan S.*	Chemical Pathology	Male	2004
118	Anusiem, Alphonso C.I.	Chemistry	Male	2004
119	Bwala, Sunday A.	Medicine (Neurology)	Male	2004
120	Coker, Akintoye Olusegun	Medical Microbiology	Male	2004
121	Ekundayo, Olusegun	Chemistry	Male	2004
122	Falase, Ayodele O.	Medicine/Cardiology	Male	2004
123	Ibidapo-Obe, Oyewusi	Stochastic Control & Information Systems Engineering	Male	2004
124	Isoun, Turner T.	Veterinary Medicine	Male	2004
125	Obi, Timothy U.	Veterinary Medicine	Male	2004
126	Adu, Israel F	Animal Nutrition	Male	2006
127	Akinsete, Ibronke	Haematology	Female	2006
128	Falade, Gabriel Kayode	Petroleum Engineering	Male	2006
129	Okorie, Domingo Amechi	Chemistry	Male	2006
130	Onadeko, Babatunde Owolabi	Respiratory Medicine	Male	2006
131	Osotimehin, Babatunde	Medicine/Chemical Pathology	Male	2006
132	Salau, Akinola Muritala*	Solid State Physics/Devices	Male	2006
133	Sofola, Olusoga	Physiology	Male	2006
134	Soyannwo, Olaitan	Anaesthesia/Pain Management	Female	2006
135	Braide, Ekanem Ikpi	Parasitology/Epidemiology	Female	2006
136	Afolayan, Adeyinka	Enzymology/Protein Science	Male	2006
137	Ilori, Samuel Akindiji	Mathematics	Male	2006
138	Okafor, Emmanuel Chukwuemeka	Chemistry	Male	2006
139	Shokunbi, M. Temitayo	Developmental Neurosciences/Paediatric Neurology	Male	2006
140	Chidume, Charles E.	Mathematics	Male	2006
141	Akanji, Abayomi Olusola	Medicine-Endocrinology & Metabolic Medicine	Male	2007
142	Egbunike, Gabriel N.	Animal Science	Male	2007
143	Ume, Ifeanyi Charles	Mechanical Engineering	Male	2007
144	Briggs, Nimi Dimkpa	Medicine	Male	2007
145	Adewoye, Olusegun O.	Material Science	Male	2007
146	Longe, Oyebiodun Grace	Nutritional Biochemistry	Female	2007
147	Soboyejo, Wole	Material Science & Engineering	Male	2007
148	Bamiro, Olufemi Adebisi	Mechanical Engineering	Male	2008
149	Aghaji, Martin Anthony C.	Cardio-Thoracic Surgery	Male	2008



LIST OF FELLOWS SINCE INCEPTION

S/N	FELLOWS	SPECIALTY	GENDER	YEAR INDUCTED
150	Dada, Olukayode	Laboratory Medicine (Chemical Pathology)	Male	2008
151	Onyido, Ikenna	Mechanistic & Bioorganic Chemistry	Male	2008
152	Adikwu, Michael U.	Pharmacy/Pharmaceutics	Male	2009
153	Aire, Tom A.	Veterinary Medicine	Male	2009
154	Falusi, Adeyinka G.	Haematology	Female	2009
155	Oderinde, Rotimi A.	Industrial Chemistry	Male	2009
156	Onwuliri, Celestine O.*	Zoology	Male	2009
157	Onwualu, Peter Azikiwe	Agricultural Power & Machinery	Male	2009
158	Sodeinde, O.	Paediatrics	Male	2009
159	Damachi, Nicholas A.	Industrial Engineering/ Science Public Policy	Male	2010
160	Gumel, Abba B.	Mathematics	Male	2010
161	Kuku, Sonny F.	Endocrinology	Male	2010
162	Malomo, Siyanbola	Geology	Male	2010
163	Okeke, Francisca Nneka	Geomagnetism/ Conospheric Physics	Female	2010
164	Abubakar, Mohammed K.	Biochemistry	Male	2011
165	Alo, Babajide Ibitayo	Organic & Environmental Chemistry	Male	2011
166	Babalola, Chinedum Peace	Pharmacy/Pharmacokinetics	Female	2011
167	Egboka, Boniface C.E.	Hydrogeology	Male	2011
168	Nwaorgu, Obioma C.	Parasitology & Entomology	Female	2011
169	Sofoluwe, Adetokunbo B.*	Computer Science	Male	2011
170	Adewole, Isaac F.	Obstetrics & Gynaecology	Male	2011
171	Abass, Mojeed Olayide	Computer Science	Male	2012
172	Adebowale, Kayode Oyebode	Industrial Chemistry	Male	2012
173	Adeyemi, Isaac Adebayo	Food Science	Male	2012
174	Anosa, Victor Onwubalili	Veterinary Pathology	Male	2012
175	Ibhadode, Akaehomen O. Akii	Manufacturing Engineering	Male	2012
176	Nok, Andrew Jonathan	Biochemistry	Male	2012
177	Okonofua, Friday E.	Obstetrics & Gynaecology	Male	2012
178	Olayinka, Abel Idowu	Geology	Male	2012
179	Omigbodun, Akinyinka Omokolapo	Obstetrics & Gynaecology	Male	2012
180	Soboyejo, Alfred B.O.	Aeronautical & Astronautical/ Agricultural & Biol. Engineering	Male	2012
181	Atawodi, Sunday Ene-ojo	Biochemistry	Male	2013
182	Atinmo, Tola	Nutrition	Male	2013
183	Ezeokoli, Chukwudozie Daniel	Veterinary Medicine	Male	2013
184	Gureje, Oye	Medicine (Psychiatry)	Male	2013



LIST OF FELLOWS SINCE INCEPTION

S/N	FELLOWS	SPECIALTY	GENDER	YEAR INDUCTED
185	Hussaini, Isa Marte	Pharmacology	Male	2013
186	Idoko, John Alechenu	Medicine	Male	2013
187	Kale, Oladele O.	Public Health	Male	2013
188	Momoh, James Adeche	Electrical Engineering	Male	2013
189	Odunfa, Sunday Ayodele	Microbiology	Male	2013
190	Osadebe, Ogoamaka Patience	Pharmaceutical & Medicinal Chemistry	Female	2013
191	Adekoya, John Adeyinka	Geology	Male	2014
192	Agbenin, John Okhienaiye	Soil Environmental Chemistry	Male	2014
193	Agbonlahor, Dennies Edokpaigbe	Medical Microbiology/ Medical Laboratory Science	Male	2014
194	Ahaneku, Joseph Eberendu	Chemical Pathology/ Clinical Chemistry	Male	2014
195	Aina, Patrick Oladipo	Soil Physics	Male	2014
196	Farombi, Ebenezer Olatunde	Biochemistry	Male	2014
197	Ibe, Chidi Adonis	Oceanography/ Scientific Research	Male	2014
198	Odunsi, Adekunle	Gynecologic Oncology/Medicine	Male	2014
199	Ojo, Joseph Olorunfemi	Electrical & Computer Engineering - Power Electronics	Male	2014
200	Shokunbi, Wuraola Adebola	Haematology	Female	2014
201	Agbede, Oluwole A.	Water Resources & Geotechnical Engineering	Male	2015
202	Amazigo, Uche V.	Medical Parasitology	Female	2015
203	Familoni, Oluwole B.	Chemistry	Male	2015
204	Ladipo, Kehinde O.	Geology	Male	2015
205	Maduagwu, Emmanuel	Biochemistry	Male	2015
206	Mba, David	Mechanical Engineering	Male	2015
207	Ohaneri, Jude U.	Medicine (Psychiatry)	Male	2015
208	Ohia, Sunny E.	Pharmacology	Male	2015
209	Umoh, Jarlath U.	Veterinary Public Health/ Veterinary Medicine	Male	2015
210	Adegbola, Richard Adebayo	Microbiology	Male	2016
211	Adeyemo, Olanike Kudirat	Aquatic Epidemiology & Toxicology	Female	2016
212	Adeyeye, Mojisola Christianah	Pharmacy & Pharmaceutics	Female	2016
213	Akah, Peter Achuiké	Pharmacology	Male	2016
214	Akanji, Musbau Adewumi	Biochemistry	Male	2016
215	Akujor, Chidi Emmanuel	Physics	Male	2016
216	Ajaiyeoba, Edith Oriabure	Pharmacognosy	Female	2016
217	Falade, Catherine Olufunke	Pharmacology & Therapeutics	Female	2016
218	Odiaka, Timothy Isioma	Organometallic Chemistry	Male	2016
219	Osilike, Micah Okwuchukwu	Mathematics	Male	2016
220	Antia, Effiom E.	Oceanography	Male	2017



LIST OF FELLOWS SINCE INCEPTION

S/N	FELLOWS	SPECIALTY	GENDER	YEAR INDUCTED
221	Balogun, Joseph A.	Physiotherapy	Male	2017
222	Esimone, Charles O.	Biopharmaceutics & Pharmaceutical Microbiology	Male	2017
223	Gamani, Karniyus S.	Pharmacology	Male	2017
224	Ogundipe, Oluwatoyin T.	Botany	Male	2017
225	Ogunsola, Folasade T.	Medicine	Female	2017
226	Olapade-Olaopa, Emiola O.	Medicine	Male	2017
227	Olorunfemi, Martins O.	Applied Geophysics	Male	2017
228	Oyeneyin, Mufutau Babs	Petroleum Engineering	Male	2017
Foreign Fellows				
229	Zewail, Ahmed	Chemistry	Male	2010
230	Albert, Bruce	Biochemistry/ Molecular Biology	Male	2011
231	Clegg, Michael	Biological Sciences	Male	2012
	*Late			



APPENDIX E

SECTIONAL COMMITTEES
– PHYSICAL SCIENCES

MATHEMATICAL SCIENCES

J.C. Amazigo	Male – Chairman
S.A. Ilori	Male
C.E. Chidume	Male
A.B. Gumel	Male
M.O. Abas	Male

PHYSICS, ASTRONOMY
AND SPACE SCIENCES

P.N. Okeke	Male – Chairman
E.D. Mshelia	Male
C.E. Okeke	Male

CHEMICAL SCIENCES

Joseph I. Okogun	Male – Chairman
O. B. Familoni	Male
Babajide I. Alo	Male
Ikenna Onyido	Male
E.C. Okafor	Male

ENGINEERING AND APPLIED SCIENCES

E.E. Okon	Male – Chairman
S. Mustafa	Male
I.C. Ume	Male
A.O.A. Ibhadode	Male

EARTH AND ENVIRONMENTAL SCIENCES

O.S. Adegoke	Male – Chairman
K.M. Onuoha	Male
S.W. Petters	Male
S. Malomo	Male
A.I. Olayinka	Male

SECTIONAL COMMITTEES
– BIOLOGICAL SCIENCESBIOCHEMISTRY, MOLECULAR BIOLOGY &
BIOTECHNOLOGY

G.B. Ogunmola	Male – Chairman
E.O. Faromi	Male
A.J. Nok	Male
S.E. Atawodi	Male
E.O. Anosike	Male

BIOLOGICAL SCIENCES

Tolu Odugbemi	Male – Chairman
M. Nwagwu	Male
A.O. Coker	Male
S.A. Odunfa	Male

AGRICULTURAL AND FORESTRY SCIENCES

O.G. Longe	Female – Chairman
E.E. Ene-Obong	Male
I.F. Adu	Male
I.A. Adeyemi	Male
Tola Atinmo	Male

MEDICAL SCIENCES

Nimi D. Briggs	Male – Chairman
Idris Mohammed	Male
I. Akinsete	Female
Joseph Ahaneku	Male
Wuraola Shokunbi	Female

PHARMACEUTICAL SCIENCES

D.T. Okpako	Male – Chairman
C.O. Wambebe	Male
M.U. Adikwu	Male
C.P. Babalola	Female
I.M. Hussaini	Male

VETERINARY SCIENCES

T.A. Aire	Male – Chairman
T.T. Isoun	Male
T.U. Obi	Male
V.O. Anosa	Male
C.D. Ezeokoli	Male



Appendix C

PAST PRESIDENTS SINCE INCEPTION

President	Tenure
Professor V.A. Oyenuga	1977-1979
Professor C.A. Onwumechili	1979-1981
Professor Umaru Shehu	1981-1983
Professor E.U. Emovon	1983-1985
Professor A.N.U. Njoku-Obi	1985-1987
Professor I.O. Oladapo	1987-1989
Professor C.I.O. Olaniyan	1989-1991
Professor A.I.I. Ette	1991-1993
Professor A.A. Adegbola	1993-1995
Professor Awele Maduemezia	1995-1997
Professor Lateef .A. Salako	1997-1999
Professor Anya .O. Anya	1999-2001
Professor Alexander O.E. Animalu	2001-2003
Professor Gabriel B. Ogunmola	2003-2006
Professor David U.U. Okali	2006-2009
Professor Oyewusi Ibidapo-Obe	2009-2013
Professor Oyewale Tomori	2013-2017



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- International Council for Science (ICSU) – the umbrella body for all science associations and unions
- Inter Academy Partnership (IAP) – the umbrella body for all national science academies globally

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- Schlumberger
- United States Civilian Research and Development Foundation
- Education Relief Fund
- Inter Academy Partnership
- International Network for Government Science Advice
- Gender In Science Innovation Technology and Engineering
- American Academy of Arts and Sciences
- Inter Academy Partnership for Research

THE NIGERIAN ACADEMY OF SCIENCE

ACADEMY HOUSE
8A Ransome Kuti Road
University of Lagos, Akoka, Lagos.
P.M.B. 1004 University of Lagos Post Office Akoka, Yaba, Lagos, Nigeria.
Tel: +234 808 962 2442
Email: admin@nas.org.ng Website: www.nas.org.ng