



**THE NIGERIAN ACADEMY
OF SCIENCE**

2019

**ANNUAL REPORT/
YEAR BOOK**





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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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FROM THE PRESIDENT

(Address at the 2019 NAS AGM)



Professor Mosto Onuoha, FAS
President

Preamble

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

It is with great pleasure that I welcome all of you to the year 2019, and to this year's Annual General Meeting of Fellows of the Academy. We have every reason to thank God for our gathering here today and for the privilege of being alive to be part of the proceedings here today. A few of our Fellows who should have been here today are unable to make the trip for one reason or the other, either because of ill health or because of other urgent contending issues. Sadly, there are a few who are not only absent from today's proceeding, but will also remain eternally absent, physically, from our meetings because they are no longer alive. Gone to the world beyond in the year 2018 are the following Fellows of NAS: -

- i. Prof. Awele Maduemezie,
- ii. Prof. A. I. I. Ette, and
- iii. Prof. E. A. Anosike.

At this point, I would like to request all of us to kindly rise for a moment of silent prayers for the families of these late eminent colleagues and friends. May the Lord God Almighty grant their families the fortitude to bear the loss they have suffered!

Some of the high points of our activities in the past year

I would like to inform our Fellows that the past one year was quite an eventful one for the Academy. We carried out our usual activities like inducting new Fellows in the month of May, 2018, holding media briefings, releasing some new publications, and continuing to imbibe our core values, which include merit, pursuit of excellence, integrity, volunteerism, service orientation, and commitment. Highlights of our achievements in the year include: -

- 1) The takeoff of the NAS Gold Medal Award for Science. The winner of the Prize for 2017 which was in the broad area of the Physical Sciences was presented with the award in May 2018. The 2018 edition that was on the Life Sciences saw three co-winners emerge, and some of you here witnessed the award presentation ceremony which took place yesterday here in Lagos. Entries for 2019 will be announced in due course and we expect a growing amount of publicity yearly from these events. We are seriously canvassing for sponsors for this event.
- 2) Plans for getting some work started at the land that will serve as the permanent headquarters for NAS at the nation's capital. The Council has a committee headed by the Vice-President, Prof. Ekanem Braide, to advise on what and how to develop the property, prepare timelines and Master Plan for developing the land, identify and draw up a resource mobilization plan for funding and development. The structures to be built on the land will include a science museum, library and office complexes, halls for meetings, a conference centre with comprehensive conference facilities, and ample parking space. Beaconsing of the allocated land is the project now at hand after which other stages of the work to be done can start.

- 3) Getting more and more Fellows involved in the activities of the Academy. This remains a major objective though funding has remained the major constraint. This notwithstanding, we intend to ensure better sponsorship of Fellows to our various activities and will do everything possible to reduce the financial burden members have to bear in order to attend a NAS function outside their locality.
- 4) Collaborating with other local and foreign scientific societies. We have honoured invitations from the Nigerian Academy of Engineering, Science Association of Nigeria, Nigerian Statistical Association, the Nigerian National Order of Merit Board, and other organisations to their functions. Our partnership and collaboration with the Education Relief Foundation (based in Geneva, Switzerland) on Balanced and Inclusive Education 2030 has remained on course and fruitful. We have remained very active in the International Science Council (formerly ICSU) and in the activities of Inter Academy Partnerships (IAP). The Federal Ministry of Science and Technology has continued to work closely with NAS on some of their projects and programmes, e.g. the recently introduced Annual Technology Expos, while the NAS President has been invited to chair some ad hoc committees set up by the Federal Government in the course of the year. We are currently partnering with some other African science academies in a consensus study on the root causes of low coverage and under-immunisation of the African child. The 14th edition of the Annual Meeting of African Science Academies (AMASA-14) was held in Cotonou, Benin Republic in November 2018 and we participated actively, helping the relatively young Academy of Science and Letters of the Republic of Benin to plan and execute the meeting successfully.
- 5) We are actively sustaining our relationship with the Nigerian Young Academy.
- 6) We are doing our best to meet our vision and to maintain societal relevance.

Looking back into our activities in the past year, one can say that there are still other areas where our performance and expectations were not met e.g.

- (a) The bill on the establishment of NAS, that was passed by the National Assembly in 2017 is yet to receive the much expected Presidential assent. Some "grey areas" in the bill were noted by the Presidency and clarifications were demanded from us. After the answers were successfully provided to the Office of the Clerk of the National Assembly, the bill was returned to the Presidency for assent. This roughly has been the situation since April 2018. As you all know, the Head of State of our nation is supposed to be the Grand Patron of the Academy, but our efforts in recent years to carry out the investiture of our current Head of State as the Grand Patron has hitherto not been successful. I am happy to inform you that our most recent efforts in this direction has met with success and we have recently been informed that President Buhari has accepted our offer and will soon name a date for the event. If the bill is not assented to by the time of the investiture, we will use the opportunity to openly and officially plead with him to do so. We are exploring other avenues for drawing attention to the need to give assent to the bill and for a government grant to enable us build a befitting Academy Secretariat at the nation's capital.
- (b) On the issue of maintaining societal relevance and increasing our visibility in the nation space, Council earlier considered and approved some options and strategies that were announced at this AGM last year. One avenue was to send out Fellows, that are willing, as emissaries of to our different universities as guest lecturers and special ambassadors. A good number of our colleagues in many Nigerian universities know very little about the activities of NAS and in order to change this situation and stir up greater interest in NAS membership, particularly in under-represented zones, we know that it is important that we take our activities to different parts of the country. This is a matter that the Council has been discussing from time to time, and the cost implications seem to be the only constraint. While we wait for our finances to improve so that we will be in a position to hold more activities during the year and move such activities round the country, it was approved by Council that we can use our Fellows to increase our visibility in the nation, generate more interest in NAS (particularly among students and the younger generation),

and achieve some of our stated objectives, e.g. sharing knowledge, and bringing the gains of science and technology nearer to our people by sponsoring Fellows to serve as Guest Lecturers in relevant faculties and colleges in our various institutions. The response by our Fellows has so far remained poor in the last one year, with only two persons offering to visit two universities in 2018. I expect better response from you all this year.

Prof. Tim Obi, on behalf of the NAS President visited Landmark University, Omu-Aran, Kwara State and delivered a well-received lecture that clearly revealed the importance of having NAS Fellows speaking and mingling with younger colleagues and students. Let me repeat how we expect this scheme to work. The lecture to be delivered should be in the Fellow's area of specialisation and on a topic of general interest. NAS will be responsible for the transportation and accommodation expenses and, in addition, provide a token allowance to help meet lecture material preparation. The receiving university is only expected to have logistic arrangements in place for the lecture. During the lecture the Fellow/guest lecturer is expected to start off by providing information about NAS (history, vision and mission, mode of admission into NAS Fellowship, etc.) to the audience before going on to the subject matter of the lecture.

- (C) NAS Publications – Ensuring a regular publication of the NAS Proceedings has remained difficult because of the relatively few number of good articles being submitted for publication. I urge Fellows to patronize our journal so that it can appear more regularly, especially now that the publication is fully sponsored.

We all agree that the Academy should now be more proactive in our response to issues relevant to science, technology and innovation in the country. Our plan is to involve the Sectional Committees a lot more in our desire to provide evidence-based advice to affect policy determination in the country. With the active participation of our Fellows, we intend to make efforts to boost our financial base by competing for funded projects, and collaborating with funding agencies to organize workshops and execute projects. Our Secretariat staff have been doing quite well in the area of preparing proposals, but more fellows need to be involved in this business. There is a proposal to hold annual workshops/seminars on topical issues and we expect sectional committees to come up with suggestions on topics and issues that can be discussed at such workshops or seminars.

Concluding Remarks

Finally, I would like to appreciate the members of the Council of the Academy for their dedication and work. I have worked with very committed and dedicated Fellows. The outgoing Treasurer, aided by a committed Finance Committee introduced new measures to increase our investments and boost our funds. Our Secretariat staff members have been very supportive and hardworking and, in the past year, we were able hire some new staff to replace those that voluntarily left our service. Let me end by reminding all of us that the Academy belongs to us and therefore needs the intellectual, professional, moral, and financial contribution of every Fellow. We should always remember that NAS is a great asset to the nation and it is a very great honour to be a Fellow. Thank you for giving me the opportunity to serve you as President. It is an awesome responsibility, and by God's grace, the Academy will wax stronger year by year. Things are certainly getting better, but we must all join hands and work hard to achieve our collective vision and mission. God bless you all!

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 the policies and strategic direction of the country.

NAS is a national not-for profit organization with membership comprising of 239 distinguished Fellows who were elected through a highly competitive process. 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 within and outside the country 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 representative on such bodies as the International Science Council (ISC) - 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 accomplishments of the NAS include:

- 1) the development of a training manual on getting research into policy and practice;
- 2) the organization of international conferences on climate change in Nigeria;
- 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

An improved quality of life for the Nigerian society through the promotion and application of science and technology.

1.2 Mission

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 the 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 referred to it by government, and private organizations;
- b. Bringing to the attention of government and its agencies problems of national interest that science and technology can help solve; and
- c. Establishing and maintaining highest standards of scientific endeavour and achievement in Nigeria through conferences, seminars, workshops, symposia, publication of journals/ reports, recognition

of outstanding contributions to science in Nigeria through awards and prizes, as well as the development of working relationships with other national and international scientific bodies and academies.

1.3 Core Values

The core values of the Academy include the following:

- Merit
- Excellence
- Credibility
- Volunteerism
- Service orientation
- Evidence-based hallmark
- Relationship-building
- Commitment

2.0 NAS GOVERNANCE/MANAGEMENT

2.1 The 43rd Council



Professor Mosto Onuoha, FAS

The President/Professor of
Pure and Applied Geophysics



Professor Ekanem Braide, FAS

Vice President/Professor of Parasitology/
Epidemiology



Professor Olukayode Adebawale, FAS
Treasurer/Professor of
Industrial Chemistry



Professor Timothy Obi, FAS
Academic Secretary (Biological Sciences)
Professor of Veterinary Medicine



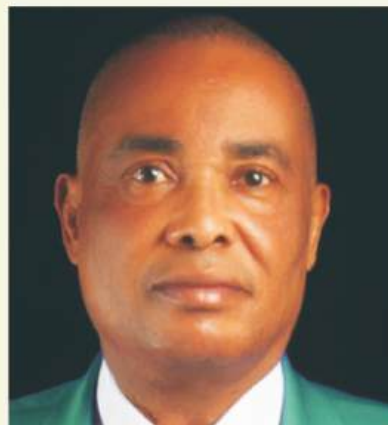
Professor Abubakar Sambo, FAS
Academic Secretary (Physical Sciences)/
Professor of Mechanical Engineering



Professor Olatunde Farombi, FAS
Public Affairs Secretary/
Professor of Biochemistry



Professor Olusegun Ekundayo, FAS
Foreign Secretary/
Professor of Chemistry



Professor Friday Okonofua, FAS
Chairman, Publications Committee/
Professor of Obstetrics & Gynaecology



Professor Siyanbola Malomo, FAS
 Representative, Physical Sciences/
 Professor of Geology



Professor Salihu Mustafa, FAS
 Representative, Physical Sciences/
 Professor of Civil/
 Water Resource Engineering



Professor Oluwole Familoni, FAS
 Representative, Physical Sciences/
 Professor of Chemistry



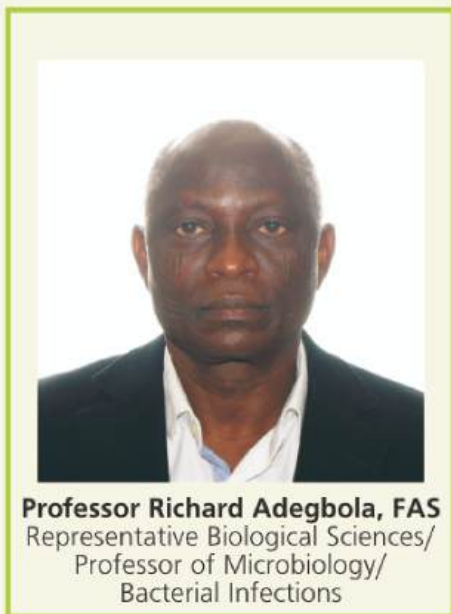
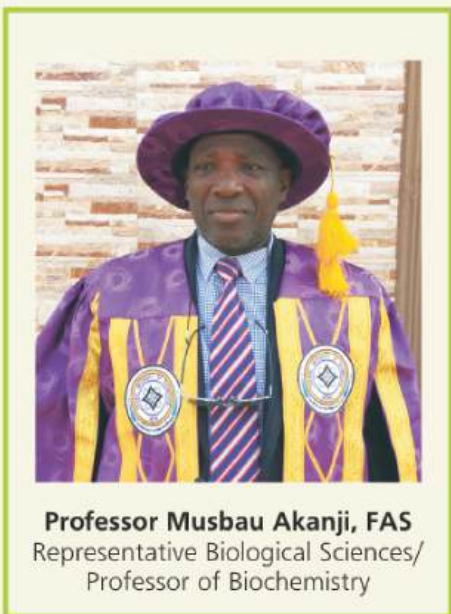
Professor Chidi Ibe, FAS
 Representative, Physical Sciences/
 Professor of Oceanography/
 Scientific Research



Professor Obioma Nwaorgu, FAS
 Representative Biological Sciences/
 Professor of Parasitology & Entomology



Professor Dennis Agbonlahor, FAS
 Representative Biological Sciences/
 Professor of Medical Microbiology/
 Medical Laboratory Science



2.2 The Fellowship

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 into the Academy begins with a call for nomination which is sent to all Fellows. To be elected, candidates are 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. The top three candidates of each Sectional Committee who must attain a stipulated minimum score, are recommended to the Council –the body responsible for preparing final shortlist of candidates to be voted for by the entire Fellowship. Voting is done electronically and can be done from 30 days prior to the Annual General Meeting (AGM).

The top ten candidates –with at least 50% of total votes cast, are deemed elected and announced at the AGM.



Fellows at the NAS 2019 Annual General Meeting

2.3 The Secretariat

The operations of the Academy are coordinated by its secretariat located within the campus of the University of Lagos (Academy House, 8A Ransome Kuti Road). Members of Staff at the NAS Secretariat in 2019 are:

| | | |
|-------------------------|---|---|
| Dr. Oladoyin Odubanjo | - | Executive Secretary |
| Dr. Chinedu Madubuike | - | Program Manager (till June, 2019) |
| Mr. Samuel Shofuyi | - | Finance and Administrative Manager |
| Miss Anjola Olanipekun | - | Senior Program Officer |
| Miss Gertrude Ogieguata | - | Senior Program Officer (Development) |
| Miss Blessing Onyema | - | Program Officer |
| Miss Mobolaji Dasaolu | - | Administrative Officer (Communications) |
| Mr. Nicholas Ibeh | - | Administrative Officer |
| Mrs. Ifeoluwa Edawole | - | Administrative Officer |
| Mr. Seun Balogun | - | 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 2019.

3.1. NAS holds Annual General Meeting

The Nigerian Academy of Science held its 2019 Annual General Meeting in Lagos on Wednesday, 16th January, 2019. The President, Professor Mosto Onuoha FAS, in his welcome speech reiterated the importance of every Fellow as NAS is a great asset to the nation. He also pointed out that, while things were certainly getting better, everyone must continue to join hands and work together to achieve the vision of the Academy.

At the AGM, the Academy's 43rd Council was constituted. The 43rd Council members are:

- | | | |
|----------------------------------|---|--|
| 1. Professor Mosto Onuoha | - | President |
| 2. Professor Ekanem Braide | - | Vice President |
| 3. Professor Olukayode Adebowale | - | Treasurer |
| 4. Professor Olusegun Ekundayo | - | Foreign Secretary |
| 5. Professor Friday Okonofua | - | Chair, Publications Committee |
| 6. Professor Abubakar Sambo | - | Academic Secretary (Physical Sciences) |
| 7. Professor Timothy Obi | - | Academic Secretary (Biological Sciences) |
| 8. Professor Olatunde Farombi | - | Public Affairs Secretary |
| 9. Professor Obioma Nwaorgu | - | Representative Biological Sciences |
| 10. Professor Dennis Agbonlahor | - | " |
| 11. Professor Musbau Akanji | - | " |
| 12. Professor Richard Adegbola | - | " |
| 13. Professor Siyanbola Malomo | - | Representative Physical Sciences |
| 14. Professor Salihu Mustafa | - | " |
| 15. Professor Oluwole Familoni | - | " |
| 16. Professor Chidi Ibe | - | " |
| 17. Professor Oyewale Tomori | - | Immediate Past President |



Picture with President of NAS (3rd right) and other Fellows at the presentation of the 2018 NAS Gold Medal Prize for Science

Also at the AGM, ten (10) distinguished scientists were elected as Fellows of the Nigerian Academy of Science. The elected scientists are:-

1. Professor Isaac Asuzu
2. Professor Nduka Ekere

3. Professor Mathew Illori
4. Professor Gabriel Kolawole
5. Professor Bertram Nwoke
6. Professor Oluwatoyin Odeku
7. Professor Adesola Ogunniyi
8. Professor Olayinka Omigbodun
9. Professor Michael Onyekonwu
10. Professor Bruce Ovbiagele

3.2 Presentation of the 2018 NAS Gold Medal Prize for Science

The 2018 NAS' Gold Medal Prize for Science was awarded jointly to three distinguished Scientists for their innovation and ingenuity in using molecular genetics and biotechnology to solve health problems.

The medal was awarded to the following co-winners (in no particular order):

1. Professor Wasiu Lanre Adeyemo (University of Lagos) for achievements and expertise in using cutting edge molecular genetics to understand the basis of cleft lip and palate in Sub-Saharan Africa;
2. Dr. Emmanuel Oluwadare Balogun (Ahmadu Bello University) for the ingenious application of a template for developing transgenic tse-tse flies to achieve biological control of trypanosomiasis;
3. Professor Temidayo Ogundiran (University of Ibadan) for advancing an original contribution to the understanding of genetic disparity in cancer between people of African descent and other races.



Group picture with Co-winners of the 2018 NAS Gold Medal of Science

At the presentation of the prize, on January 15th 2019, the co-winners gave short synopses of their respective researches.

The NAS Gold Medal Prize for Science is awarded annually in recognition of scientific achievements that are of local relevance, but with international resonance, addressing problems of the African region. Entries for the award, which consists of a medal, a certificate, and a purse, are adjudged by an expert committee of the Academy.

3.3 Induction of Distinguished Scientists and Public Lecture

The induction of newly elected scientists into the Fellowship of the Nigerian Academy of Science held at the Reiz Continental Hotel, Abuja, on May 16th 2019.



Some members of the high table at the 2018 NAS Gold Medal Prize for Science. (l-r: Professors Temitayo Shokunbi FAS, Ekanem Braide FAS, Mosto Onuoha FAS and Gabriel Ogunmola FAS (Chairman NAS Gold Medal Committee))

The induction ceremony was preceded by a public lecture delivered by Professor Babs Oyeneyin, FAS. In his lecture titled, "Beyond Petroleum: Whither Nigeria?", Professor Oyeneyin averred that the future of oil & gas in Nigeria/Africa and globally was bright. He said "the offshore assets will form the cornerstone of future supplies for Nigeria & Africa". He further challenged the Nigerian Academy of Science to champion the



Fellows of the Academy at the Induction and Public Lecture held in Abuja in May, 2019

development of “game changing technologies” and skilled manpower in order to provide the right solution to intensify/expand the target market of petroleum in Africa

This event was graced by participants from different parts of the country, some of whom included Directors of oil companies. Also present were journalists from different media houses; and the general public.

All the newly elected scientists were inducted into the fellowship of the Academy with the exception of Prof. Bruce Ovbiagele who could not attend the ceremony but was inducted later in October 2019 by the Council. The inducted Fellows were:

Professor Isaac .U. Asuzu FAS, holds DVM (1980), MSc, Veterinary Pharmacology (1985), PhD, Veterinary Pharmacology and Toxicology (1987) from University of Nigeria, Nsukka. Professor Asuzu has made significant contributions to the pharmacology and toxicology of African medicinal plants, especially on alternative snakebite and type 2 diabetes treatments.

Professor Nduka .N. Ekere FAS, is a Professor of Manufacturing Engineering. He is Senior Fellow of Higher Education Academy, Fellow of Institution of Engineering and Technology, Member of Nigerian Society of Engineers and Member of Institute of Directors.

Professor Ekere's research focuses on identifying and developing suitable assembly/packaging technologies to address the miniaturization challenge facing the electronics industry.

Professor Matthew .O. Ilori FAS, is a Professor of Environmental Microbiology at the University of Lagos. He is the Senate representative to the Advancement Board and has served in several other Senate and university committees. He is a member of many professional associations.

Professor Gabriel .A. Kolawole FAS, was promoted to Professor of Chemistry at the University of Ibadan in 1994 and later in 1998 moved to University of Zululand (South Africa) to head a small Department which in 8years was awarded a Centre of Excellence in Nanotechnology. He is currently the Dean of the College of Postgraduate Studies of the Redeemer's University.

Professor Bertram .E. Nwoke FAS, was the best graduate of Zoology, University of Jos (1979), started his academic career in 1981 with Imo State University Nigeria. He is a Postdoctoral Fellow, World Health Organization (WHO) and Bill Gates Lymphatic Support Centre at Liverpool School of Tropical Medicine.

Professor Oluwatoyin .A. Odeku FAS, is a Professor of Pharmaceutics at the University of Ibadan. She is the current Dean at University of Ibadan's Faculty of Pharmacy

Professor Adesola Ogunniyi FAS, received his medical degree in 1978 from the University of Ife, Ile-Ife (now Obafemi Awolowo University) and had his residency training at the University College Hospital, Ibadan (1980 – 85) specializing in neurology. Ogunniyi is currently the Chairman of the College Research and Innovation Management Unit that coordinates research in the College of Medicine.

Professor Olayinka .O. Omigbodun FAS, graduated with the MBBS degree from the University of Ibadan in 1985, winning the prize in Physiology. Olayinka Omigbodun was appointed a Lecturer at the College of Medicine, University of Ibadan in 1997 and became the first female Professor of Psychiatry in Nigeria on October 1, 2008.

Professor Michael .O. Onyekonwu FAS, graduated B Sc (First Class Honours) degree in Petroleum Engineering in 1978 from University of Ibadan. He is currently the Chairman of the Board of Oil and Gas Trainers Association of Nigeria (OGTAN).

3.5 Media Roundtable on 'Depression and Suicide Prevention'

The Nigerian Academy of Science in collaboration, with Vitafoam Nigeria plc (on 17th April, 2019), held a media roundtable on 'Depression and Suicide Prevention' in Lagos.

A Fellow of the Nigerian Academy of Science and Consultant Psychiatrist, Professor Oye Gureje FAS, gave a lecture on 'Depression and suicide prevention' In his presentation, Professor Gureje came up with recommendations on policy changes/initiatives needed to improve the management of depression and prevention of suicide.



Participants at the Big Data and Artificial Intelligence Workshop

In addition, Professor Olayinka Omigbodun, a Consultant in Child & Adolescent Psychiatry, talked about the occurrence and prevention of depression and suicide amongst children and adolescents, as well as how depression can be effectively managed.

Mr. Olalekan Sanni, Company Secretary/Legal Adviser of Vitafoam Nigeria plc, in his goodwill message from his organization, applauded the Academy for the initiative. The meeting came to a close with session interviews from the journalists in attendance



L-R: Professors Oyewale Tomori FAS, Adetokunbo Lucas FAS, Dr. Oladoyin Odubanjo and Miss Mobolaji Dasaolu (standing) at the courtesy visit paid to Foundation Fellow Lucas in his home in Ibadan

Miss Mobolaji Dasaolu. The visit is part of Secretariat's continuing drive to engage with NAS Fellows, especially the elderly.

3.6 Secretariat's Visit to Foundation Fellows

The Secretariat of the Academy during the year paid courtesy visits to two elderly Foundation Fellows, Professor Theophilus Ogunlesi FAS in Sagamu, and Professor Adetokunbo Lucas in Ibadan. Professor Ogunlesi, a Professor of Medicine, is Nigeria's first Professor of Medicine and a Past Vice-President of the Nigerian Academy of Science.. Professor Lucas is a Professor of Public Health

Professor Oyewale Tomori FAS (Immediate past President, NAS) graciously joined the Secretariat team to visit Professor Lucas. The Secretariat's team comprised of the Executive Secretary, Dr. Oladoyin Odubanjo, and the Administrative Officer (Communications),

3.7 NAS Honours Science Journalists

The Nigerian Academy of Science (NAS) held its 2019 Annual Luncheon for Science Journalists on August 22nd 2019 at the Sheraton Hotel and Towers, Ikeja. A keynote address titled "Captivating Science Reporting in the 21st Century" was delivered by Ms. Caroline Southey, the Editor of 'The Conversation Africa' –a Pan-African online science reporting media based in Johannesburg, South Africa.

Ms. Southey pointed out that, for science stories to be relevant, they must investigate unexpected questions about familiar issues that affect society and be told in compelling ways.

As is the practice, the NAS Science Media Awards were presented at the luncheon. The awards –in its 9th year, seek to promote excellence in science-related journalism. The winners and runners-up of the awards were:

- Mr. Isaac Anyaogu (Business Day) –Winner, Print category
- Ms. Nkoli Omhoudu (African Independent Television) –Winner, Broadcast category
- Mr. Afeez Hanafi (Punch Newspaper) –Runner up, Print Category
- Mrs. Omolara Afolayan (Television Continental) – Runner up. Broadcast Category

The Science Media Award is held in collaboration with Vitafoam Nigeria PLC and it is hoped that an improvement in science reporting would result in a better-informed public, bringing about greater responsibility in policymaking.

3.8 Visit to Chrisland University

In its drive to open new vistas of engagement and collaboration, the Secretariat paid a visit to the management of Chrisland University during the year (April 3rd, 2019).The Vice-Chancellor of the university, Professor Peace Babalola FAS, gave an overview of the university's history and activities and thanked the NAS' Secretariat team for paying the school a visit. The NAS Executive Secretary, Dr. Oladoyin Odubanjo, while appreciating the University's



Cross section of journalists listening at the Media Roundtable on 'Depression and Suicide Prevention' held at the NAS Secretariat in Lagos. (Professor Oye Gureje FAS standing)

management for its hospitality, emphasized that the Academy is always open to collaboration and partnership with both public and private institutions to deliver the fruits of science to society.

3.9 Summit on Women in Science and Nigeria's Development

The NAS brought together scientists, policymakers, civil society, professional bodies and the private sector on October 21st & 22nd 2019 to discuss myriads of challenges –biases, cultural/religious barriers, work-life balance, lack of opportunities for collaboration etc –being faced by female scientists. The summit proposed strategies for empowering women and girls in science; equip them to thrive; and to make a major impact on Nigeria's development.

Participants at the summit included female scientists from across various fields of science, postgraduate students in science disciplines, and representative of government agencies, private sector, nongovernmental organizations (NGOs), and the media.

The summit was convened with support from United Nations Educational, Scientific, and Cultural Organization (UNESCO), University of Medical Sciences Ondo, University of Lagos, and Chrisland University, Abeokuta.

3.10 NAS hosts Workshop on Big Data and Artificial Intelligence (AI)

A stakeholders' Workshop on Big Data and Artificial Intelligence held on November 4th & 5th 2019, at the Sheraton Hotels & Towers, Ikeja-Lagos. The workshop was convened by the Academy to consider the impact of big data and artificial intelligence on education and training in Nigeria as well as the skills-set required of Nigerian professionals in science, technology and engineering fields to answer the question of whether Nigeria is ready for the future of work.



Group picture of participants at the Big Data and Artificial Intelligence (AI) workshop held in Lagos

Participants at the workshop agreed that the continued dominance of the new era of big data and artificial intelligence in modern society had ushered in a new paradigm, reshaping the future of work globally. The participants further recommended that the country needed to take decisive, and timely, actions to join the 4th technological revolution and be part of the global innovation transformation.

The opening address of the workshop was given by Professor Lukumon Oyedele, the Founding Director of Big Data, Enterprise and Artificial Intelligence Laboratory (Big-DEAL) of the University of the West of England (UWE) Bristol, England. Professor Oyedele spoke on "Data Analytics and Artificial Intelligence for Nigeria's Sustainable Development".

Participants at the workshop were drawn from the academia, government parastatals, private sector and the media.



Participants at the 15th Annual Meeting of African Science Academies (AMASA-15)

4.0 INTERNATIONAL ACTIVITIES AND EVENTS – 2019

This section provides a brief overview of some international events/activities, involving the Academy during the course of 2019.

4.1 NAS President on the board of the Association for the Development of the Atlantic International Research Center (AD AIR Center)

The President of the Nigerian Academy of Science, Professor Mosto Onuoha FAS, was nominated by the Federal Government of Nigeria to serve as a member of the Governing Board of the Association for the Development of the Atlantic International Research Center (AD AIR Center). The AIR Centre is a network for international cooperation along and across the Atlantic, with an integrative approach to the advancement and sharing of knowledge of space, atmosphere, oceans, climate change, energy and data science, and has its headquarters located in Terceira/Azores, Portugal. Other countries involved with AD AIR Center are Portugal, Spain, UK, USA, South Africa, Namibia, Angola.

4.2 The 15th Annual Meeting of African Science Academies (AMASA-15)

In 2019, Ghana Academy of Arts and Sciences (GAAS) hosted AMASA-15 themed, 'Science, Technology and Innovation for Food Security and Poverty Alleviation in Africa: The role of Academies' in Accra, Ghana between the 13th and 16th of November, 2019.

NAS' representatives at AMASA-15 were: Professor Mosto Onuoha (President); Professor Henrietta Ene-Obong (Fellow); Dr. Oladoyin Odubanjo (Executive Secretary); and Ms. Gertrude Ogieguata (Program Officer Development).

4.3 NAS represented at new global academies' project

Professor Babajide Alo FAS, with support of the Network of African Science Academies (NASAC), represented the NAS from November 3-5 at the kick-off meeting in the Leopoldina – German National Academy of Sciences in Halle-Liepzig, Germany. The new InterAcademy Partnership (IAP) project on 'Climate Change and Health' project is to fill in critical gaps in our knowledge of the effects of climate change on human health. It is focused on the scientific opportunities and solutions to mitigate and adapt to health effects from climate change on a global level through scientific expert inputs and regional reports on the subject. NASAC will be coordinating the preparation of the African regional report and input into the IAP global report on the subject.



Members of the IAP Panel including Professor Babajide Alo FAS on the new IAP Project on “Climate Change and Health” at their meeting at Leopoldina, Germany in November 2019

4.4 African Regional Workshop of Global Dryland Ecosystem Programme & the Second Conference on Climate, Ecosystems and livelihoods in Africa

Professor Efiom Ene-Obong FAS represented the NAS at a workshop jointly organized by the United Nations Environment Programme –International Ecosystem Management Partnership (UNEP – IEMP); The Institute of Geographic Sciences & National Resources, Senegal (IGS NRR); The Chinese Academy of Sciences (CAS); and the National Academy of Sciences & Techniques of Senegal (ANSTS). The workshop was held in Dakar, Senegal from 23rd September to 25th September, 2019.

The workshop sought to create a permanent partnership mechanism to support China-Africa cooperation in pursuance of the Sustainable Development Goals.

4.5 NAS Elected to IAP Executive Committees

The 2019 Inter-Academy Partnership Conference and General Assembly (GA) was held in Songdo, Korea in April 2019. The NAS President, Professor Mosto Onuoha FAS attended. The general assembly resulted in NAS being elected into the Executive Councils (EC) of the Inter-Academy Partnership for Science (IAP-S) and the Inter-Academy Partnership for Health (IAP-H). NAS already serves on the EC of the Inter-Academy Partnership for Policy (IAP-P). Dr Sonny Kuku FAS (Chair, NAS Sectional Committee on Health Sciences) was nominated, by the NAS President, to represent NAS on the EC of the IAP-H.

4.6 Consensus Study on Science Advice in Africa

In January 2019, the African Chapter of the International Network for Government Science Advice (INGSA-Af), in collaboration with NAS, commenced a consensus study on the science advisory landscape in Africa. One of the objectives of this study is to identify structures that could play a role in science advice to African governments, as well as recommend strategies for strengthening science advice on the continent. The study was conducted by a committee of experts from five African countries, and chaired by the NAS President.

As part of activities under this study, a session to showcase the lessons learnt was organized at the 2019 Science Forum South Africa (SFSa). This session which took place on the 4th of December 2019 at the CSIR International Convention Centre in Pretoria/Tshwane, South Africa, was attended by the Academy's Senior Program Officer, Ms. Anjola Olanipekun. The session focused on discussing the findings/recommendations

of the consensus study, and igniting conversations on how science advice in Africa may be galvanized to improve policymaking on the continent.



Participants at the 2019 Science Forum South African (SFSA). Miss Anjie Olanipekun from the NAS Secretariat (3rd from right)

5.0 NEWS ON MEMBERS

1. Professor Emeritus Emmanuel .U. Emovon FAS celebrated his 90th birthday on Sunday, 24th of February, 2019 in Benin. Professor Emovon (Professor of Chemistry) was a Foundation Fellow and Past President of the Nigerian Academy of Science. He was a former Minister of Science and Technology. Emovon who is the Obayagbona of Benin Kingdom was the first Benin man to become a Professor and a Vice Chancellor in a Federal University in Nigeria. (Unijos).



Professor Ibido-Obe FAS delivering his Exaugural Lecture in Lagos

2. Professor Ifeanyi Charles Ume FAS passed on to glory. He was a Professor of Mechanical Engineering. Professor Ume was solemnized with traditional wakekeeping activities in Atlanta on Friday, 26th of April, 2019 followed by other funeral services on Saturday, 27th of April, 2019, also in Atlanta. His final burial was held on Saturday, 29th of June, 2019 at Uga, Anambra State.
3. Professor Suleiman Adekola FAS was conferred with the title of Emeritus Professor of Electrical Engineering at the University of Lagos. Professor Adekola is a Professor of Electrical/Electronics Engineering and is a former treasurer of the Nigerian Academy of Science.



Emeritus Professor Emmanuel Emovon FAS cutting his 90th birthday cake

4. Professor Chidi Ibe FAS received the Distinguished Fellowship Award (FNAEE) on the 15th of April, 2019 by the Nigerian Association for Energy Economics (NAEE) for his exemplary contributions. Professor Ibe is a Professor of Oceanography/Scientific Research. He was a Council member of the Academy.
5. Professor Suleiman Bogoro FAS was reinstated as the Executive Secretary of Tertiary Education Trust Fund (TETFund). He is Professor of Animal Science/Agriculture.



Former President of the Federal Republic of Nigeria, Chief Olusegun Obasanjo (1st left) pose with Professor Ibadapo-Obe FAS (middle) after his birthday celebration

on and letting go: Dissecting attachment by an exceptional bacterial colonizer' on the 18th of June 2019 at the Otunba Subomi Balogun Conference Centre, University of Ibadan. The lecture is held every other year in memory of the late Professor Olumbe Bassir FAS (a Foundation Fellow of the Academy); and is sponsored by the Thomas-Bassir Foundation.

8. (a) Distinguished Professor Oyewusi Ibadapo-Obe FAS delivered his exaugural lecture on Wednesday, 26th of June, 2019. His lecture titled 'An innovative and outstanding career within our stochastic space' was delivered at the Senate Chambers, University of Lagos. Professor Ibadapo-Obe, Professor of Stochastic Control & Information Systems Engineering is a Past President of the Academy.

(b) Distinguished Professor Oyewusi Ibadapo-Obe FAS celebrated his 70th birthday on Friday, 5th of July, 2019. A black tie/full national dress reception was held in his honour where he launched the 'Oye Ibadapo-Obe Foundation for Educational Transformation'.



Professor Friday Okonofua FAS delivering the 7th Professor Adetokunbo Sofoluwe Memorial Lecture in University of Lagos

9. Professor Friday Okonofua FAS delivered the 7th Professor Adetokunbo Babatunde Sofoluwe Memorial Lecture on Thursday, 4th of July, 2019. His lecture titled 'Re-thinking the archetypal medical education system in Nigeria' was delivered at the Afe Babalola Auditorium, University of Lagos. Professor Okonofua who is the current Vice Chancellor of University of Medical Sciences, Ondo is a Professor of Obstetrics & Gynaecology, and the Academy's Publications Committee Chairman. Professor Adetokunbo Sofoluwe FAS passed on to glory on the 12th of May, 2012.



Professor Ovbiagele FAS after his Induction

10. Professor Emmanuel Chukwuemeka Okafor FAS (83years) passed on to glory. He was a Professor of Chemistry at the University of Nigeria, Nsukka with specialization in colour and fused heterocycles. The erudite scholar passed away at the National Hospital, Abuja on June 19th and was buried at his home town, Ojoto Obofia in Idemili South LGA of Anambra State, on Friday, October 11, 2019.

11. Professor Bruce Ovbiagele FAS was inducted as Fellow of the Nigerian Academy of Science on Thursday, 24th of October, 2019 in Abuja.

Professor Bruce Ovbiagele FAS is a Professor of Neurology and Head of the Department of Neurology at the Medical University of South Carolina. Ovbiagele is the immediate past Chair of the International Stroke Conference Program Committee (premier scientific meeting on stroke in the world)

12. Professor Boniface C.E. Egboka FAS retired from the services of Nnamdi Azikiwe University, Awka. He was appointed Professor Emeritus by the Governing Council of the University following his recommendation by the University Senate.

13. Professor Obioma Nwaorgu FAS retired from the services of Nnamdi Azikiwe University, Awka. She was appointed Professor Emeritus by the Governing Council of the University following her recommendation by the University Senate. Professor Nwaorgu serves as a Representative, Biological Sciences in the Academy's Council

14. Professor Emiola Oluwabunmi Olopade-Olaopa FAS, has been elected into the Board of Directors of the Societe Internationale d'Urology (World Congress of Urology) as Chairman of the Membership Section for Africa and the Middle East at the General Assembly of the 39th Congress which held in Athens, Greece on Saturday, October 20, 2019. With this honour, he has become the first Nigerian, and only the 4th African, to be elected to the highest decision making body of the Society in its 112-year history. Professor Olopade-Olaopa is the Provost, College of Medicine, University of Ibadan

15. Professor Olukayode Adebowale FAS was conferred with the Fellowship of the Royal Society of Chemistry (FRSC). Professor Adebowale is the Academy's Treasurer and also a Deputy Vice-Chancellor at the University of Ibadan.



Emeritus Professor Augustine Esogbue FAS receiving his award in Dubai



L-R: Professors Oluwole Familoni FAS, Sunday Atawodi FAS, Mosto Onuoha FAS, Suleiman Bogoro FAS, Njidda Gadzama FAS, Abubakar Sambo FAS, and Dr. Oladoyin Odubanjo at the courtesy visit to the Executive Secretary of Tefund, Professor Suleiman Bogoro FAS

16. Professor Patrick Oladipo Aina FAS celebrated his 70th birthday on Friday, 22nd November, 2019. A book launch and valedictory lecture titled 'Climate Change, Environmental and Food Insecurity: Solutions beneath our feet' was held in his honour at Obafemi Awolowo University, Ile-Ife. Professor Aina is a Professor of Soil Physics.

17. Professor Abubakar Sambo FAS was appointed as the Chairman of the Ministerial Task Force on Power on the 19th of December, 2019. Professor Sambo is the Academy's Academic Secretary, Physical Sciences.

18. Professor Emeritus Augustine Esogbue FAS received the Honorary Doctorate in Engineering (DEng) honoris causa from Commonwealth University of Britain in Dubai on the 13th of December, 2019.

19. Professor Isa Marte Hussaini FAS was appointed Honourable Commissioner for the Ministry of Higher Education on the 21st August, 2019 by the Governor of Borno State. Professor Hussaini is a Professor of Cancer Pharmacology.

EVENTS IN PICTURES



Fellows of NAS at the Presentation of the 2018 NAS Gold Medal Prize for Science held in Lagos on the 15th of January 2019



Female Fellows of the Nigerian Academy of Science pose together after the 2019 NAS AGM



Members of the high-table at the Public Lecture on 'Beyond Petroleum: Whither Nigeria?' held in Abuja. L-R: Professors Timothy Obi FAS, Abubakar Sambo FAS, Olukayode Adebawale FAS, Ekanem Braide FAS, Mosto Onuoha FAS, Olusegun Ekundayo FAS, Olatunde Farombi FAS



Cross section of NAS Fellows at the Induction of New Fellows held in Abuja

EVENTS IN PICTURES



Senior Management staff of Chrisland University, Abeokuta take pose with NAS team after a courtesy visit



Fellows of NAS on the high-table at the presentation of Award of the 2018 NAS Gold Medal of Science



Cross Section of Fellows at the NAS Public Lecture/Induction of New Fellows held in Abuja



Co-winners of the 2018 NAS Gold Medal of Science. L-R: Professor Temidayo Ogundiran, Professor Wasiu Adeyemo, Dr. Oluwadare Balogun



Cross section of participants at the presentation of the 2018 NAS Gold Medal Prize for Science

6.0 REPORT OF THE NIGERIAN YOUNG ACADEMY (NYA) ACTIVITIES

Introduction

The NYA has enjoyed considerable support from the Nigerian Academy of Science (NAS) in the past, and 2019 was no exception. The NYA is grateful for the generous support received during this year and over the past 9 years. During 2019, our Academy was able to consolidate on our past successes with the help and support of the leadership, individual fellows and the Secretariat of NAS.

This section covers the major events and activities of the Nigerian Young Academy (NYA) and its members in the year 2019.

6.1 Change in Leadership

| S/N | NAME | PORTFOLIO |
|-----|------------------------|---------------------------------|
| 1. | Dr. Abiodun Egbetokun | President |
| 2. | Dr. Aliyu Muhammad | Vice President |
| 3. | Dr. Idowu Kazeem | General Secretary |
| 4. | Dr. Auwal Ibrahim | Assistant General Secretary |
| 5. | Dr. Chinwe Chukwudi | Publicity Secretary |
| 6. | Dr. Isaac Akinwumi | Financial Secretary |
| 7. | Dr. Lukman Olasunkanmi | Treasurer |
| 8. | Dr. Anthony Ugbenyen | Technical & Logistics Secretary |
| 9. | Dr. Temitope Olomola | Ex-Officio I |
| 10. | Dr. Oluwatosin Rotimi | Ex-Officio II |

6.2 SDGs in Focus

In the year 2019, we remained committed to aligning our activities with the four (4) SDGs priority areas that we identified last year, that is:

- i. SDG 4 (Quality Education),
- ii. SDG 5 (Gender Equality),
- iii. SDG 6 (Clean Water and Sanitation), and
- iv. SDG 16 (Peace, Justice and Strong Institutions).

6.3. NYA 9th National Conference and General Assembly

The 9th Annual Conference and General Assembly of the NYA held from August 26-28, 2019 on the Samaru Campus of the Ahmadu Bello University (ABU), Zaria, Kaduna State. This marked the first time that the event will hold in the North-Western part of the country. The theme of the conference was: "Mobilizing Momentum for Achieving the Sustainable Development Goals in Africa". In addition to the kind support of NAS, the Vice Chancellor of ABU as well as the Centre Leader of the Africa Centre of Excellence on Neglected Tropical Diseases and Forensic Biotechnology (ACENTDFB) provided us much support in making the event a success.



A cross-section of members and new fellows at the General Assembly of the 2019 NYA conference at the Ahmadu Bello University, Zaria, Nigeria

6.4 Award of 2018 Young Scientist Prizes

Six (6) categories of National Young Scientist Prizes were advertised for the year 2019 but there were winners in only four (4) categories. The prizes were presented during the Annual Conference as follows:

- i. Prof. Oyewale Tomori National Young Scientist Prize for Research in Microbiology won by Dr. Abeni Beshiru of Western Delta University, Oghara, Delta State.
- ii. Prof. Friday E. Okonofua National Young Scientist Prize for Research in the Health Sciences won by Dr. Chinedum Eleazu of Alex Ekwueme Federal University, Ndufu-Alike, Ebonyi State.
- iii. Prof. Kayode Adebawale National Young Scientist Prize for Research in the Chemical Sciences won by Dr. Olushola S. Ayanda of Federal University Oye Ekiti, Ekiti State.
- iv. Professor Aderemi Kuku National Young Scientists' Prize for the Mathematical Sciences won by Dr. Sunday. O. Edeki of Covenant University, Ota, Ogun State.



The Award Winners: (L-R) Drs. Sunday Edeki, Olushola Ayanda, Abeni Beshiru and Chinedum Eleazu

6.5 Induction of New Members (2019)

This year we received a large number of applications for membership of the NYA – one hundred and forty seven (147) in all. Of these, twenty-six (26) were found qualified to be admitted after the peer review process. However, only ten (10) candidates presented themselves to be inducted into the NYA in August 2019. Out of the sixteen (16) absent individuals, nine (9) are expected to present themselves for induction in 2019. The remaining seven (7) will have to reapply for membership, this is because the General Assembly was not satisfied with the reasons for missing induction presented by these individuals. Two (2) individuals who missed their induction last year still failed to present themselves for induction this year. They have, therefore, forfeited their successful application and will have to reapply, if they still intend to join the Academy.

The list of newly inducted NYA members is given below:

| S/N | NAME | INSTITUTIONAL AFFILIATION |
|-----|--------------------------------|--|
| 1. | Dr. Idika Kalu Idika | Department of Veterinary Parasitology and Entomology, University of Nigeria, Nsukka |
| 2. | Dr. Ibrahim Malami | Faculty of Pharmaceutical Sciences, Usmanu Danfodiyo University, Sokoto |
| 3. | Dr. Temitope Olawunmi Sogbanmu | Department of Environmental Toxicology & Pollution Management, University of Lagos, Lagos |
| 4. | Dr. Kingsley Nnanna Ukwaja | Department of Internal Medicine, Federal Teaching Hospital, Abakaliki |
| 5. | Dr.. Sanusi Bello Mada | Department of Biochemistry, Ahmadu Bello University, Zaria |
| 6. | Dr. Ismail Ayoade Odetokun | Department of Veterinary Public Health and Preventive Medicine, University of Ilorin, Ilorin |
| 7. | Dr. David Olubiyi Obada | Department of Mechanical Engineering, Ahmadu Bello University, Zaria |
| 8. | Dr Oluwasola Emmanuel Omoju | National Institute for Legislative & Democratic Studies (National Assembly), Abuja |
| 9. | Dr. Oluwaseun Adedokun | Department of Pure & Applied Physics, Ladoko Akintola University of Technology, Ogbomosho |
| 10. | Dr. Uchenna Oyali | Department of English, University of Abuja, Abuja |



The 2019 Inducted Members

The current membership of the NYA now stands at forty two (43). Dr. Enitome Bafor, a member who was inducted in 2018 resigned her membership in 2019. Although Dr. Bafor was inducted in 2018, she actually missed the General Assembly that took place a day after her induction. She then requested for permission to miss the next two General Meetings (2019 and 2020) on the grounds that she was leaving for a visiting researcher position in the US. The General Assembly refused to grant her request and she consequently decided to resign her membership.

6.6 Exiting Members (Fellows)

At the time of the Annual Conference, eight (8) members of the Academy had fulfilled the mandatory five (5) year term of membership. Four (4) of them were physically present and were decorated as Fellows of the NYA. They are:

| S/N | NAME | INSTITUTIONAL AFFILIATION |
|-----|----------------------|--|
| 1 | Dr Martins Omorogie | Redeemers University, Ede |
| 2 | Dr Elijah Adebayo | Ladoke Akintola University of Technology, Ogbomoso |
| 3 | Dr Temitope Jaiyeola | Obafemi Awolowo University, Ile-Ife |
| 4 | Dr Samuel Olajuyigbe | University of Ibadan, Ibadan |

Fellows of the NYA now stand at thirty five (35) in number.

6.7 Workshops and Conferences

In 2019, the NYA organized a few workshops on different themes and in conjunction with different partners. These events have helped in gaining more visibility and connections around the country.

6.7.1 4th TWAS Young Affiliates Network (TYAN) International Thematic Workshop and 1st African Symposium

The NYA co-hosted the 4th TYAN International Thematic Workshop and 1st African Symposium at the Federal University of Technology, Akure between 10th and 14th June 2019 at Heritage Continental Resort Hotel Conference room, Ijapo Estate, Akure, Nigeria. The event focussed on the theme: Big Data, Analytics and Machine Intelligence for Financial, Health and Environmental Inclusion in Developing Countries.

6.7.2 Anti-Plagiarism Workshop at Ahmadu Bello University, Zaria

As part of the NYA's advocacy against plagiarism, a workshop on antiplagiarism was organised in Ahmadu Bello University (ABU), Zaria on August 26, 2019. The workshop immediately preceded the 9th Annual General Assembly and Conference of the Academy. This workshop was sponsored by the Africa Centre of Excellence on Neglected Tropical Diseases and Forensic Biotechnology (ACENTDFB) of ABU. The keynote speaker at the workshop was Prof. E. T. Babalola of the Department of English Language, OAU. Other speakers include Dr Okunola Alabi (Managing Editor of the Annals of Science and Technology) and Prof S. Ibrahim (Director, Research and Innovations, ABU, Zaria). The workshop had around 100 participants in attendance, comprising NYA members, students affiliated with ACENTDFB and other departments of ABU as well as staff members.

6.8 Conferences attended

During 2019, the NYA was represented at several local and international conferences, including

- i. The 4th Worldwide Meeting of Young Academies (WWMYA) in Da Nang, Vietnam between 31st July and 2nd August 2019. As a fallout of continuous interaction with the Global Young Academy (GYA)

who are the conveners of the WWMYA, the NYA was represented in the Organising Committee of the WWMYA, co-authored and co-signed the Statement of Core Principles for Young Academies.

- ii. The NAS Summit for Women in Science with the theme “Women in Science and Nigeria's Development” held in Abuja on October 21 and 22.
- iii. The NAS Workshop on Big Data and Artificial Intelligence held in Lagos.

7.0 NYA JOURNAL

Annals of Science and Technology (AST), the official journal of the NYA, is continuing steadily. Volume 4 number 1 of the journal was published during 2019. The journal is published on the platform of Sciendo (formerly De Gruyter Open). It is indexed and abstracted by many reputable outlets including Baidu Scholar, CNKI Scholar (China National Knowledge Infrastructure), EBSCO Discovery Service, Google Scholar, J-Gate, KESLI-NDSL (Korean National Discovery for Science Leaders), Naviga (Softweco), Promi Central (ExLibris), ReadCube, Summon (Serial Solutions/ProQuest), TDNet and WorldCat (OCLC).

8.0 NYA NEWSLETTER

The quarterly newsletter of the NYA is still being produced consistently. Four issues have been published in 2019 (January, April, July and October). The newsletter serves as a primary source of dissemination of information to the public.

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 A.* | 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 | Udekwu, Fabian Anene O.* | Thoracic Surgery | Male | 1977 |
| 39 | Ekong, Donald Efiong U* | 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 O. | 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 J.* | Civil Engineering | Male | 1981 |
| 57 | Iyehen, 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 | Evwaraye, 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 Efiong | 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 | Osoimehin, 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, Olugbemiro | 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 Achuik | 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 |
| 229 | Agunwamba, J. Chukwuemeka | Water Resources & Environmental Engineering | Male | 2018 |
| 230 | Akande, Samuel Olusegun | Geology | Male | 2018 |
| 231 | Babalola, Jonathan Oyebamiji | Biophysical Chemistry | Male | 2018 |
| 232 | Bogoro, Suleiman Elias | Animal Science & Agriculture | Male | 2018 |
| 233 | Ene-Obong, Henrietta Nkechi | Human Nutrition | Female | 2018 |
| 234 | Kwaga, Jacob Kwada Paghi | Veterinary Sciences | Male | 2018 |
| 235 | Okeke, Iruka Nwamaka Okonta | Pharmaceutical Microbiology | Female | 2018 |
| 236 | Owolabi, Mayowa Ojo | Medical Science & Neuro Sciences | Male | 2018 |
| 237 | Asuzu, Isaac Uzoma | Veterinary Pharm. & Toxicology | Male | 2019 |
| 238 | Ekere, Nduka Nnamdi Manu | Manufacturing Engineering | Male | 2019 |
| 239 | Ilori, Matthew Olusoji | Environmental Microbiology | Male | 2019 |
| 240 | Kolawole, Gabriel Ayowole | Coordination & Material Chemistry | Male | 2019 |
| 241 | Nwoke, Bertram Ekejiuba | Public Health Parasitology & Entomology | Male | 2019 |
| 242 | Odeku, Oluwatoyin Adepeju | Pharmaceutics & Pharm Tech | Female | 2019 |
| 243 | Ogunniyi, Adesola | Neurology | Male | 2019 |
| 244 | Omigbodun, Olayinka Olusola | Psychiatry | Female | 2019 |
| 245 | Onyekonwu, Michael Obi | Petroleum Engineering | Male | 2019 |
| 246 | Ovbiagele, Bruce Izeokhai | Public Health Sciences | Male | 2019 |
| Foreign Fellows | | | | |
| 247 | Zewail, Ahmed | Chemistry | Male | 2010 |
| 248 | Albert, Bruce | Biochemistry/ Molecular Biology | Male | 2011 |
| 249 | Clegg, Michael | Biological Sciences | Male | 2012 |
| | *Late | | | |

APPENDIX B

SECTIONAL COMMITTEES
(PHYSICAL SCIENCES)**MATHEMATICAL SCIENCES**

PROF. J. C. AMAZIGO - CHAIRMAN
 PROF. S. A. ILORI
 PROF. C. E. CHIDUME
 PROF. A.B. GUMEL

**PHYSICS, ASTRONOMY
AND SPACE SCIENCES**

PROF. P.N. OKEKE - CHAIRMAN
 PROF. A.O.E. ANIMALU
 PROF. E.D. MSHELIA
 PROF. C.E. OKEKE
 PROF. F.N. OKEKE

CHEMICAL SCIENCES

PROF. IKENNA ONYIDO - CHAIRMAN
 PROF. K. O. ADEBOWALE
 PROF. B. I. ALO
 PROF. R. A. ODERINDE
 PROF. O. B. FAMILONI

**ENGINEERING AND
APPLIED SCIENCES**

PROF. S. MUSTAFA - CHAIRMAN
 PROF. O.A. BAMIRO
 PROF. A.O.A. IBHADODE
 PROF. J.A. MOMOH

**EARTH AND
ENVIRONMENTAL SCIENCES**

PROF. A.I. OLAYINKA - CHAIRMAN
 PROF. C.A. IBE
 PROF. J.A. ADEKOYA
 PROF. S. MALOMO
 PROF. B.C.E. EGBOKA

SECTIONAL COMMITTEES
(BIOLOGICAL SCIENCES)**BIOCHEMISTRY, MOLECULAR BIOLOGY &
BIOTECHNOLOGY**

PROF. S.E. ATAWODI - CHAIRMAN
 PROF. E.O. ANOSIKE
 PROF. E.O. FAROMBI

MEDICAL SCIENCES

DR. SONNY KUKU - CHAIRMAN
 PROF J.A. IDOKO
 PROF. JOSEPH AHANEKU
 PROF. WURAOLA SHOKUNBI
 PROF. P.O. OKONKWO

PHARMACEUTICAL SCIENCES

PROF. C.P. BABALOLA - CHAIRMAN
 PROF. I.M. HUSSAINI
 PROF. P.O. OSADEBE

BIOLOGICAL SCIENCES

PROF. N.M. GADZAMA - CHAIRMAN
 PROF. SUNDAY ODUNFA
 PROF. O.C. NWAORGU
 PROF. UCHE AMAZIGO
 PROF. MARK NWAGWU

AGRICULTURAL & FORESTRY SCIENCES

PROF. O.G. LONGE - CHAIRMAN
 PROF. P. O. AINA
 PROF. I. F. ADU
 PROF. E. E. ENE-OBONG

VETERINARY SCIENCES

PROF. O. TOMORI - CHAIRMAN
 PROF. T. A. AIRE
 PROF. T. T. ISOUN

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 |



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

