



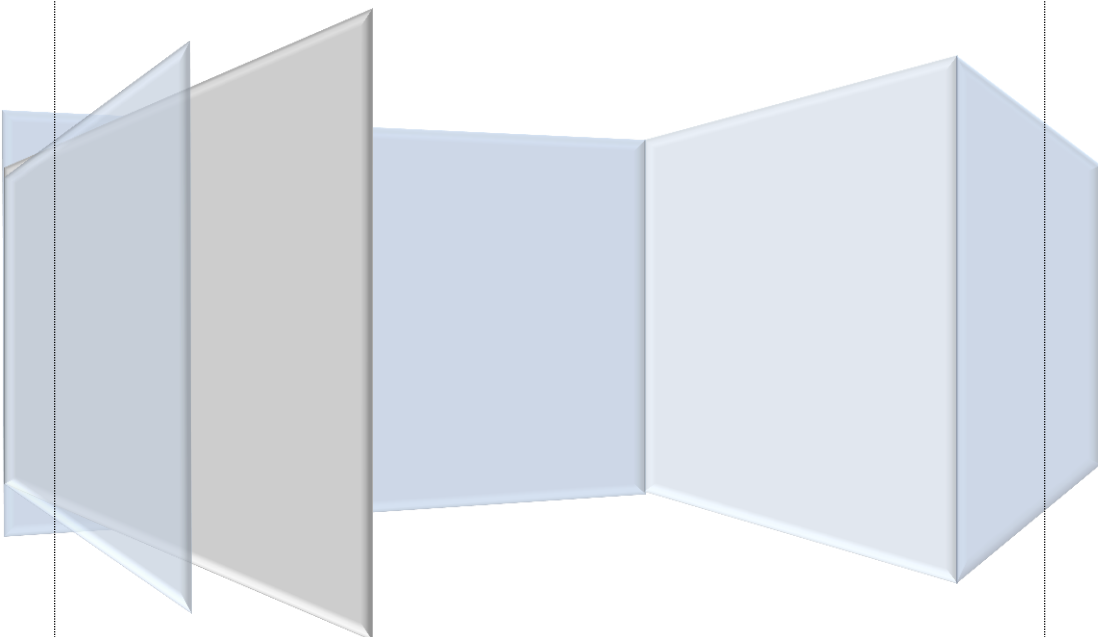
African Union
Scientific Technical Research Commission



African Scientific
Research and
Innovation Council

AFRICAN SCIENTIFIC, RESEARCH AND INNOVATION COUNCIL

ASRIC BUREAU MEMBERS



African Scientific Research and Innovation Council (ASRIC) is a specialized Technical Advisory Body on Science, Technology and Innovation (STI) to the African Union with African Union, Scientific, Technical and Research Commission (AU-STRC) as its Secretariat. The ASRIC was established through the African Union's Executive Council Decision (EX.CL/Dec.747 (XXII)) and it promotes scientific research and innovation in order to address the challenges of Africa's socio-economic development. It also mobilizes African research excellence and provides a platform for dialogue among African scientists and serves as a voice of the scientific community in building and sustaining continental research and innovation nexus.

Launching the ASRIC during its Congress in November 2018 was a land mark in the Science, Technology and Innovation impact on Africa's future and prosperity. The ASRIC Congress is composed of African scientists from all the African National Science Academies, National Research Councils, top Science, Technology and Innovations (STI) Institutes in Africa, Diaspora Scientists and Partners. The Congress decides on the implementation of key science and technology programme and projects in accordance with the Science, Technology and Innovation Strategy for Africa (STISA-2024) and the overarching continental framework AU Agenda 2063. The **ASRIC Bureau** oversees and follows up on the implementation of the decision of the Congress between its sessions.

ASRIC Bureau Members



Professor Ratemo W. Michieka
CHAIRPERSON

Ratemo W. Michieka is a Kenyan, and currently a Professor of the University of Nairobi and Honorary Secretary, Kenya National Academy of Sciences (KNAS). He is a PhD graduate from Rutgers University USA and he's specialized in Weed Science and Environment.

Ratemo is a well-known scholar having been the founding Vice Chancellor of Jomo Kenyatta University of Agriculture and Technology (JKUAT); Former Director General National Environment Management Authority (NEMA); Kenya; Chairman Kenya Education Network (KENET); Kenya Agricultural Research Institute, (Inter University Council of East Africa (IUCEA); Research Fellow International Institutes of Tropical Agriculture (IITA); United Nations Framework Convention on Climate Change (UNFCCC); Commission for University Education (CUE); former Commission for Higher Education (CHE),

National Commission for Science Technology and Innovation (NACOSTI); Former National Council for Science and Technology, Chair and member, African Centre for Technology Studies (ACTS); Founder and Chairman, African Institute for Capacity Development (AICAD).

Prof. Michieka has published many papers and written books in his area of expertise. He gives frequent public lectures in local and international forums promoting science disciplines, technology and innovation to the budding University graduates.



Mr. James Phiri

1ST VICE CHAIRPERSON (SCIENTIFIC AND INNOVATION)

Mr. James Phiri is the Executive Director of the Zambia Academy of Sciences and a Researcher in the Department of Biological Sciences of the School of Natural Sciences at the University of Zambia. He is founding Chairperson of the Institute for Eco-Development Strategies and Toxicology (IESTO), a privately funded scientific research organization in Zambia and is a consultant in environmental management and pollution control strategies, climate change and chemicals management. In 2004, he developed the SADC GHS on chemicals management. He earned his BSc from the University of Zambia in 1984 and his MSc from the University of Liverpool, School of Tropical Medicine in 1989.

James has held several high positions in government, private sector and international civil society organizations. He was Director General of the Zambia Environmental Management Agency (ZEMA) for eight years (1995-2003) and WWF Country Director for Zambia for five years (2005-2009) having earlier worked for the

Ministry of Agriculture as Head of programs in two Provinces of Zambia. From 1996-2003, he was Zambia's Chief Negotiator to the United Nations on matters of Chemicals Management and Climate Change and was advisor to the Minister of Environment of Zambia on matters of environment, climate change and chemicals management. James has served and co-chaired several United Nations Technical Committees and is a member of the; Royal College of Veterinary Surgeons of the UK, Zambia Academy of Sciences, Chemical Society of Zambia, Entomological Society of Zambia and recent past member of International Society for Environmental Epidemiologists.

James built ZEMA both organically and financially within three years. ZEMA has since earned local, regional and international recognition for its effective environmental pollution control programs that have globally been replicated by UNEP in many developing countries. As Country Director for WWF Zambia, he worked to ensure that WWF developed a climate change program in Africa and helped develop and build the Common Market for Eastern and Southern Africa (COMESA) climate change program.

In 1994, he led a successful integrated program on disposal of tons of obsolete chemicals from the agriculture, mining and energy sectors in Zambia. In 1998, he led the successful control program of invasive species (Water Hyacinth) over Southern Africa's most important river, the Kafue River. The weed choked the river system and threatened one of the major hydropower sta-

tions in Zambia and Southern Africa

James Phiri has employed multi-stakeholder and community participation approach and “buy-in” approach to employ scientific knowledge and technologies to tackle daunting environmental degradation and environmental pollution in Zambia. Similar approaches can be used at continental level to address under development in Africa as long as there is buy-in and participation of key stakeholders.

Based on STISA 2024 and Vision 2063, as the blue print, ASRIC should employ the power of scientific knowledge, innovation and technology to address some priority problems that require immediate intervention while nurturing scientific research, technology and innovation that will transform Africa. The measure of success for ASRIC will not be in small pilot projects but projects that will successfully and equitably run across the continent. It is do-able and ASRIC must succeed. James S Phiri brings to ASRIC the experience of an applied science practitioner to tackling Africa’s underdevelopment problems.



Professor K. Mosto Onuoha
2ND VICE CHAIRPERSON (SCIENTIFIC AND INNOVATION)

Professor K. Mosto Onuoha studied at the Lorànd Eötvös University in Budapest, Hungary (1971-78) where he majored in Applied Geophysics, obtaining the PhD degree (summa cum laude) in 1978. He served as Post-Doctoral Research Fellow at the Geophysical Institute of the Technical University, Clausthal-Zellerfeld, Germany (1979-80) and returned to Nigeria to join the services of the University of Nigeria, Nsukka (UNN) as Lecturer in the Department of Geology in 1980. Rising through the ranks, he was promoted to the position of a full Professor of Geology in 1988 and was later appointed in 1991 as the pioneer Mobil/NNPC Professor of Petroleum Geology at the Mobil Producing Nigeria's Chair of Geology, at the University of Calabar (1991-92). Between 1996 and 2002, he served as Technology Development Adviser (Subsurface Development Services) at the Shell Petroleum Development Company Limited (SPDC), Port Harcourt.

Back to the University of Nigeria, Nsukka from SPDC, he

was appointed to the Shell Chair of Geology in 2003, a position he occupied until December 2012, also serving concurrently as Deputy Vice-Chancellor (Academic) of the University of Nigeria (2005-2009). Professor Mosto Onuoha has over the years successfully supervised many undergraduate and postgraduate students. A good number of his mentees today hold top positions in the oil and gas industry and several are now serving as full professors in different universities in Nigeria. In January 2013 he was appointed to the Petroleum Technology Development Fund's Chair of Petroleum Geology at the UNN, the third of such distinguished professorial chairs that he is occupied his academic career before his official retirement from service in 2017. He was inducted into the prestigious rank of Professor Emeritus of the University of Nigeria, Nsukka in December 2017.

Prof. Onuoha is currently the President of the Nigerian Academy of Science, a Fellow of several learned societies in Nigeria, and a member of the American Association of Petroleum Geologists (AAPG) to name a few. He has received many awards and honours in his working life some which include the "Chief M. O. Feyide Medal" of the Nigerian Mining & Geosciences Society (NMGS) in "recognition of excellent and consistent contribution to the Field of Petroleum Geology in Africa", and the "Dr. Nnamdi Azikiwe Prize" in recognition of consistently promoting the study of Earth Sciences.

His research activities are in the characterisation of petroleum reservoirs, exploration geophysics, tectono-

physics, and mitigation of natural and man-made hazards in West and Central Africa.



Professor Driss Ouazar
3RD VICE CHAIRPERSON (COMMUNICATION)

Prof. Driss Ouazar graduated from Ecole Mohammadia d'Ingénieurs with a degree in Hydraulic Engineering (1977) and got a PhD from the University of Luick, Belgium (1983). In 1986, he was promoted full professor of Civil Engineering and Computational Methods at EMI where he is still acting as a professor and head of the Hydro-Systems Analysis Laboratory, originally an associated entity to the National Research Council of Morocco.

He established a Doctoral School on Water and Environment. His areas of research interest include Computational techniques (Finite Element, Finite Volume and Boundary Element Methods, Optimization) for engineering and scientific analysis and design with emphasis on water resources, environment, hydraulics and hydrodynamics, Computer Aided Design, Computer Assisted Software Engineering including Object Oriented Design and Implementation, Artificial Intelligence and Expert Systems.

Industrial experience highlights a program of continuing education incorporating hydraulics and environmental software and computational water resources.

He has developed a series of research linkages between EMI and other institutions all over the world. He is co-founder of the International Conferences: Maghreb Colloquium on Numerical Methods for the Engineer in 1987, International Conference on Computer Methods and Water resources in 1988, Saltwater Intrusion and Coastal Aquifers (SWICA) in 2001, the Third International Conference on Hydraulic Engineering Software Applications (Hydrosoft 1990), Massachusetts, USA, April 1990, the International Conference on Computer Methods and Water Resources held at Ecole Mohammadia d'Ingénieurs Rabat, Morocco in March 1988 and October, 1991, and in Lebanon 1995, 1998.

He has also co-organized successfully many other advanced courses and workshops on computational hydraulics for African and Middle East participants. Dr. Ouazar has been appointed adjunct professor at the University of Delaware, Water Resources program, USA. He was also invited professor in France, UK, Japan and USA. He is a member of the High Water Council and Climate of Morocco and in the Scientific Board of the National Research Council. He was Co-editor and in editorial Board of HYDROSOFT International Journal now included in Advances in Water Resources, reviewer for many international journals in applied numerical analysis and water resources issues and the author of several

journal papers, book chapters, books and conference papers.



Professor Beban Sammy Chumbow
4TH VICE-CHAIRPERSON (RESOURCE MOBILIZATION)

Beban Sammy Chumbow (BSC), Licencié, Agrégé d'Enseignement Moyen du Degré Supérieur (Lovanium), Ph.D (Indiana-USA) has been Professor of Linguistics (since 1982) with specialization in Generative Phonology & Applied Linguistics while research activities also includes Language Planning and Science & Development. He is currently Pro Chancellor (Chair of the Governing Council) of the University of Dschang, a State University of Cameroon and Emeritus Professor at the University of Yaounde 1 in Cameroon, First Vice President of the Cameroon Academy of Sciences (since 2005), Fellow of the New York Academy of Sciences and President of the African Academy of Languages (ACALAN, an institution of the African Union) and most recently, Vice President of the African Science, Research and Innovation Council (ASRIC) - African Union, in charge of Resource Mobilization.

Between 1993 and 2017, he has been successively Deputy Vice Chancellor of the University of Buea, Rector

or Vice Chancellor of three state universities: the University of Dschang, the University of Ngaoundere, the University of Yaoundé 1 and VC of a private university, the ICT University, USA Cameroon Campus. He had previously served as Deputy Director of Higher Education in the Ministry of Higher Education and Scientific Research in Cameroon) with special responsibility for piloting the 1993 University reforms in Cameroon. He has over 150 scientific articles and publications in the area of Linguistics, Science and Development.

His academic and professional activities (in 2019), span over 48 years of teaching and research at the university level (including university management) in the USA (1971-1976), Nigeria (1976-1986) and Cameroon (1986 – the present 2019). This was carried out concomitantly with regular academic activities as ‘Visiting professor’ and responsibility for conferences, theses supervision and examination, and research or evaluation of development projects in several countries of the world including Britain, Canada, France, Germany, Italy, Belgium, Romania, Switzerland., USA, Sweden, Norway, Denmark, Japan, India, etc. and most countries of Africa.

He was member of the Executive Board of the Association of African Universities (AAU), former member of Council of the Association of Commonwealth Universities (ACU), Ancien membre du Conseil Scientifique de l’Agence Universitaire de la Francophonie (AUF), member of the Eight –member Nucleus of the African Academy of Languages (ACALAN) –an organ of the African

Union, and member of the Scientific Committee of CODESRIA among others. He is cited as 'Man of the year 2000' and in the book "One thousand scholars of the twentieth Century" by the Cambridge Bibliographical Society as well as in 'Who is who in the Francophonie' ("Qui fait la Francophonie?" Paris 2005); He is also cited and conferred the 'Presidential Award' by the American Biographical Society for contributions to Linguistics and Higher Education, etc. He served as Member of the Board of Directors of the consortium Language in Contact and Conflict in Africa (LiCCA) etc.

He is solicited to serve as consultant for several government and international organizations such as the African Union (AU), Association of Canadian Colleges and Universities (ACCU), UNESCO, UNECA, AAU, ACU, AUF, etc. He has been a regular key-note speaker in international conferences on issues of language, Linguistics and Research and Development (R&D) as well as matters of Higher Education Management since 1985.



Dr. Eng. Ahmed Hamdy
Executive Director ASRIC / AU-STRC

Dr. Eng. Ahmed Hamdy is the Executive Director of the African Union, Scientific, Technical and Research Commission (AU/STRC) and the former Head of Science and Technology and ICT Division of the African Union Commission (AUC) with an accumulated national and international work experience of 27 years out of which 13 years are devoted fully to Science and Technology policy for development. He successfully founded a number of Pan African Institutions and implemented several S&T projects, and policies. During his tenure in office, and in order to attract funds from Member States and Partners to implement the Africa's Science and Technology Consolidated Plan of Action (CPA) and the African Regional Action Plan on the Knowledge Economy (ARAPKE) two books of projects were developed, which are the Book of Lighthouse projects and the ARAPKE Flagship Projects. Development of such bankable projects resulted in attracting more than 100,000 K€ as a direct investment in Africa's S&T priority programmes.

He is a founder member of the following projects and programmes " African Virtual Campus, African Union Research Grant, Connect Africa Research and Education, African Leadership programme in ICT, Internet Exchange Points, African Union Kwame Nkrumah Scientific Award, the Pan African Intellectual Property Organization, African STI observatory, the African Union Network of Sciences and etc". Not only that but also he has developed and published several policies and strategies for the AU such as the African Union framework on Infectious Diseases Surveillance; African Book of Pharmacopeia; African Economy driven by innovation: Policy Analysis on STISA-2024; African Union Science and Technology framework for detection, identification and monitoring of infectious diseases of Humans, Animals and plants; Science, technology and innovation for post-conflict recovery; Science, technology and innovation for climate change; Enhancing Women participation in Science; Book of Lighthouse projects; African Regional Action Plan on the Knowledge Economy Book of Flagship projects; African Union Science and Technology Indicators guidelines; Rules and Regulation for the African Union Ministerial Conference on Science and Technology; Rules and regulation for the African Union Ministerial Conference on ICT; Youth empowerment strategy via ICT; African Union grant Manual; Africa ICT challenges and prospective; and etc.

Before joining the African Union Commission and for more than 6 years he worked in South Korea for the Korean Space agency, and Chonbuk National University as a visiting researcher, research projects manager and

finally as coordinator for a number of regional projects in South East Asia. Dr. Hamdy published a good number of SCI publications on Geodynamics and GPS application.

In his early career, from 1993 to 2001 he was a member of the Egyptian National Research Institute of Astronomy and Geophysics where he participated in a large number of Geomatics Engineering projects and he devoted his time to earn his postgraduate degrees in Engineering surveying and Geodesy. It is also worth to mention that during that period he had serviced several international and national companies as a consultant.

