**14th General Assembly of the African Academy of Sciences**

***Theme: Science for Social Justice***

**Dates: 4-6 December 2022**

**Venue: CTICC, Cape Town, South Africa**

**SUNDAY, 4 DECEMBER 2022**

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| 13:00 - 14:00  | Session 1: Opening Ceremony of the 14th AAS General Assembly*Venue: CTICC,* *Moderator: Prof Barthelemy Nyasse, Secretary General, AAS* Welcome remarks from Prof. Felix Dakora, President, AASOpening remarks * Mr Hambani Masheleni, A.g. Head of the Division for Education Division in the Department of Education, Science, Technology and Innovation, the African Union Commission
* Dr Piero Venturi, Research and Innovation Counsellor, EU Delegation to the African Union
* Mr Benoit Bonaime, DG for Teaching and Research, Ministry of Agriculture and Food Security, France
* Mr SHEN Long, Minister Counsellor, Chinese Embassy in Pretoria, South Africa
* Prof Jean Claude BURGELMAN, Director, Frontiers Planet Prize
* Prof Abdool Karim, AAS Fellow and ISC Board Member, International Science Council
* Prof. David Price FRSE and Prof. Tahseen Jafry FRSE, the Royal Society of Edinburgh
* Prof. Nikolaus Turner, Managing Director, The Lindau Nobel Laureate Meetings
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| 14:00 – 14:45 | **Session 2: The 2020 AAS Olusegun Obasanjo Prize Award and Public Lecture***Venue: CTICC,* *Chair: Prof. Quarraisha Abdool Karim** Opening remarks and announcement of the winner of the 2020 AAS Olusegun Obasanjo Prize - Dr Peggy Oti-Boateng, AAS Executive Director
* Public Lecture from the 2020 AAS Olusegun Obasanjo Prize laureate
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| 14:00 – 14:45 | Break |
| 15:00 – 16:45 | **Session 3: Introduction of the 2020 & 2021 AAS Fellows and 2021 AAS Affiliates***Venue: CTICC,* *Chair: Prof. Felix Dapare Dakora, AAS President** Introduction of 2020 & 2021 AAS Fellows and Associates
* Introduction of 2021 AAS Affiliates
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**MONDAY, 5 DECEMBER 2022**

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| 09:00 - 10:00  | Session 4: Official Opening of the AAS Science Conference*Venue: CTICC**Moderator: Prof. Iqbal Parker, AAS Vice President for Southern Africa region*Welcome remarks* Prof. Felix Dapare Dakora, AAS President
* Dr. Phil Mjwara, Director-General, Science and Innovation, Department of Science and Innovation, Republic of South Africa

Opening remarks* Mr Hambani Masheleni, A.g. Head of the Division for Education Division in the Department of Education, Science, Technology and Innovation, the African Union Commission
* Prof. Olusola Oyewole, Secretary General, Association of African Universities
* Mr Hans Stausboll, Head of Unit, Regional and Multi-Country Programmes for Africa (INTPA.A.2), European Commission
* Dr Claudia Fritelli, Program Officer, International Program, Carnegie Corporation of New York
* Dr. Brendan Thomason, Program Officer, Global Partnerships & Grand Challenges, Bill & Melinda Gates Foundation

Opening Keynote Speech: Role of the African Academy of Sciences in Transforming Lives through Science - *Prof Felix Dapare Dakora- AAS President* |
| 10:00 – 11:15 | **Session 5: Emerging investment opportunities in higher education and research, research infrastructure, and digital transformation in response to Africa's key priorities towards achieving the SDGs and the “Africa We Want”***Venue: CTICC,* *Moderator: Dr. Peggy Oti-Boateng, Executive Director, AAS***Spotlight talks on:*** **Opportunities for institutions of higher learning for sustainable development in Africa –** *Prof. Olusola Oyewole, Secretary General, Association of African Universities*
* **Digital transformation in enhancing social justice in Africa-** *Prof Maurice Tchuente, AAS Fellow*
* **Africa’s journey towards the *Green Transition* in a changing climate -** *Prof. Akiça Bahri- AAS Vice President, Northern Africa*
* **Funding opportunities to support science for social and economic development in Africa: Insights from**
* The African Development Bank
* The World Bank
* **Partnerships for the SDGs: The role of UNESCO in mobilizing partnerships for research in Africa -** *Prof. Hubert Gijzen, UNESCO Regional Director for Eastern Africa and Representative to Kenya*

Q&A Session |
| 11:15 – 11:30 | Break |
| 11:30 – 12:45 | **Session 6: Panel Discussion on Research Infrastructure Development in Africa***Venue: CTICC**Chair: Prof. Cherif Matta, MSV University, Canada*A discussion on Africa’s current Research Infrastructure landscape, focusing on the following topics: * Challenges and opportunities for Research Infrastructure ecosystems in Africa
* Africa’s immediate needs and priorities for Research Infrastructures, both small and large
* The African Science Synchrotron Initiative: Progress made, lessons learnt, and next steps

Panellists* Professor Shabaan Khalil, Zewail City of Science and Technology, Egypt and AAS Fellow
* Prof Malik Maaza, IThemba Labs, South Africa and AAS Fellow
* Prof Fairouz Malek, CNRS, France and AAS Fellow

*Q&A session* | **Session 7: Green transition: Food and Nutrition Security and Sustainable Agriculture***Venue: CTICC**Session Chair: Prof. Lise Korsten, SAC Chair, ARISE**Rapporteur: Mr. Rowland Opisa, AAS***Research Spotlight Talks** * Dr. Marthe Montcho, CR4D Fellow, University of Abomey-Calavi, Benin
* Dr. Eleni Yitbarek, CR4D Fellow, University of Pretoria, South Africa
* Mekonnen Adnew Degefu, CR4D Fellow, Addis Ababa University, Ethiopia
* Dr Ibrahim KARIDIO DIORI, ARISE Fellow, CERMES, Niger
* Dr Geoffrey Onaga, ARISE Fellow, Africa Rice Center, Cote d’Ivoire
* Dr Koffi Kibalou PALANGA, ARISE Fellow, Université de Kara, Togo
* Dr Kareem Eldin Mohammed Ahmed, ARISE Fellow, Africa City of Technology, Sudan
* Dr. Eltayb Abdellatef, ARISE Fellow, National Center for Research, Sudan
* Prof. Valera Lucena Dias, ARISE Fellow, Universidade Eduardo Mondlane, ARISE Fellow, Mozambique
* Dr Christian Nkanga, ARISE Fellow, Université de Kinshasa, Democratic Republic of Congo
* Dr Margret Aanyu, ARISE Fellow, National Agricultural Research Organisation, Uganda

Q&A Session |
| 12:45 – 13:45 | **Lunch Break** |
| 13:45 – 15:00 | **Session 8: Digital Transformation***Venue: CTICC,* *Rapporteur: Ms Gladys Wakaba***Research Spotlight Talks***Moderator: Prof. Christopher Oludhe, University of Nairobi, Kenya** Dr. Emna HARIGUA, ARISE Fellow, Institut Pasteur de Tunis, Tunisia
* Dr. Alassan Assani Seidou, ARISE Fellow, University of Parakou, Benin
* Dr. Sonia Semedo, ARISE Fellow, Universidade de Cabo Verde, Cape Verde
* Dr Sandra Jumbe, ARISE Fellow, Millenium University, Malawi
* Dr Hajar El Hammouti, ARISE Fellow, Université Mohammed VI Polytechnique, Morocco
* Dr Bessie Malila, ARISE Fellow, University of Cape Town, South Africa

Q&A Session**Panel discussion on the of digital transformation in enhancing social justice in Africa****Panellist*** Professor Rita Orji, Dalhousie University, Canada
* Prof Maurice Tchuente, AAS
* Dr. Bessie Malila- University of Cape Town
* Dr. Emna Harigua- Institut Pasteur de Tunis

Q&A Session | **Session 9: Capacities for Science & Higher Education: Skills Development in Physical Sciences and Engineering***Venue: CTICC,* *Session Chair: Prof. Jean-Pierre Bourguignon, SAC Member, ARISE**Rapporteur: Mr Rowland Opisa***Keynote presentation: Novel Functions of ATP Synthase Over and Above its Role as a Catalysis -** *Prof. Cherif Matta, MSV University, Canada***Research Spotlight Talks**Moderator: Prof. David Dodoo-Arhin, University of Ghana, Ghana* Dr Bridget Mutuma, ARISE Fellow, University of Nairobi, Kenya
* Dr Ngonye Keroletswe, ARISE Fellow, Botswana Institute for Technology Research and Innovation, Botswana
* Dr Faith Mabiki, AESA-RISE Fellow, Sokoine University of Agriculture, Tanzania
* Dr. Katawoura BELTAKO, Université de Lomé, Togo
* Dr. Mohamed Taha Rouabah, Frères Mentouri University Constantine 1, Algeria
* Dr Jane Namukbe, AESA-RISE Fellow, Makerere University, Uganda
* Dr. Samuel Bunani, ARISE Fellow, University of Burundi, Burundi
* Dr Hafeez Yusuf Hafeez, ARISE Fellow, Federal University Dutse, Nigeria
* Dr Gift Mehlana, ARISE Fellow, Midlands State University, Zimbabwe
* Dr Gaymary Bakari, AESA-RISE Fellow, Sokoine University of Agriculture, Tanzania
* Dr Michael Bodunrin, AESA-RISE Fellow, University of the Witwatersrand, South Africa

Q&A Session**Panel discussion on advances, challenges, and opportunities in skills development in the Physical Sciences and Engineering fields***Moderator: Prof. Cherif Matta, Professor in the Dept. of Chemistry & Physics, Mount Saint Vincent University, Canada**Panelists** Prof Malik Mazaa UNESCO UNISA ITLABS/NRF: A continental Nanoscience & Nanotechnologies initiative
* Prof. Ahmed Zobaa, Reader in electrical and power engineering, Brunel University London, UK
* Prof. Marleen Temmerman, Professor of Obstetrics and Gynaecology, Aga Khan University, Kenya
* Prof. David Dodoo-Arhin, Materials Engineer and Director, Institute of Applied Science and Technology, University of Ghana, Ghana
* Prof. Jean-Pierre Bourguignon, Mathematician, Institut des Hautes Etudes Scientifiques, Université Paris-Saclay, France

Q&A Session |
| 15:15 – 15:30 | **Break** |
| 15:30 – 16:45 | **Session 10: Green transition: Climate Change and Sustainable Energy***Venue: CTICC,* *Session Chair: Prof. Christopher Oludhe, University of Nairobi, Kenya**Rapporteur: Ms Gladys Wakaba, AAS***Research Spotlight Talks** *Moderator: Dr. Obed Ogega, AAS** Dr Hoby Razafindrakoto, ARISE Fellow, Institut et Observatoire de Géophysique d’Antananarivo, Madagascar
* Dr Edem Mahu, ARISE Fellow, University of Ghana, Ghana
* Dr Abdallah MAHAMAT NOUR, University of N'Djamena, Chad
* Dr Asanterabi Lowassa, CR4D Fellow, Tanzania Wildlife Research Institute, Tanzania
* Prof. Olga Laiza Kupika, CR4D Fellow, Chinhoyi University of Technology, Zimbabwe
* Dr Ibrahima Sy, CR4D Fellow, Centre de Suivi Ecologique, Senegal
* Dr Olumuyiwa Adegun, CR4D Fellow, Federal University of Technology Akure, Nigeria
* Dr Jessica Thorn, ARISE Fellow, University of Namibia, Namibia
* Dr Dimphna Nneka Ezikanyi, Ebonyi State University, Nigeria
* Dr Thomas Kivevele, ARISE Fellow, The Nelson Mandela African Institute of Science and Technology, Tanzania

Q&A Session | **Session 11: Capacities for Science & Higher Education: Skills Development in the Social Sciences, Humanities, and Arts***Venue: CTICC,* *Session Chair: Prof. Cheryl Hendricks, Executive Director, the Institute for Justice and Reconciliation, South Africa**Rapporteur: Mr. Rowland Opisa, AAS***Keynote presentation:** Impact of the 2019 Global Sustainable Development Report in the changing context of the post-COVID19 pandemic and new geostrategic international conflicts [Prof. Jean-Paul MOATTI, Chairman and Managing Director, IRD, France]**Research Spotlight Talks***Moderator: Ms Mary Majani, AAS** Dr Graeme Hoddinott, ARISE Fellow, University of Namibia, Namibia
* Dr. Celimphilo Mavuso, ARISE Fellow, University of Eswatini, Eswatini
* Dr Annette UWINEZA, University of Rwanda, Rwanda
* Dr Ahmed Amara KONATE, ARISE Fellow, Higher Institute of Mines and Geology of Boké, Guinea
* Dr Sarobidy Rakotonarivo, ARISE Fellow, University of Antananarivo, Madagascar

Q&A Session**Panel discussion on Critical Issues in Higher Education and Research in Africa: lessons learnt and opportunities***Moderator: Dr. Olumuyiwa Adegun, CR4D Fellow* *Rapporteur: Mr. Rowland Opisa, AAS**Panelists:** *Prof. Ernest Aryeetey, Secretary General, ARUA*
* *Prof. Jean-Paul MOATTI, Chairman and Managing Director, IRD, France*
* *Prof. Cheryl Hendricks, Executive Director, the Institute for Justice and Reconciliation, South Africa*
* *Dr Melody Mentz-Coetzee, PERKA Senior Researcher, University of Pretoria*
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**TUESDAY, 6 DECEMBER 2022**

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| 09:00 – 11:00 | Session 6: Public Health*Venue: CTICC**Moderator: Prof. Cherif Matta, MSVU, Canada**Rapporteur: Mr. Rowland Opisa, AAS*Keynote presentation: ‘Why are Pregnancy and Childbirth still so Deadly?’ addressing the underlying statement of ‘We know what is needed, hence why don’t we get it done?’-> from research and knowledge evidence to policies, practices, and leadership *[Prof. Marleen Temmerman, Aga Khan University, Kenya]*Research Spotlight Talks* Dr Benjamin Kumwenda, AESA-RISE Fellow, University of Malawi, Malawi
* Dr. Euclides Sacomboio, ARISE Fellow, Universidade Agostino Neto, Angola
* Dr. Kolapo Oyebola, APTI Fellow, Mountain Top University, Nigeria
* Dr George Chimowa, ARISE Fellow, Botswana International University of Science and Technology, Botswana
* Dr. Nana Ama Amissah, APTI Fellow, University of Ghana, Ghana
* Dr Etienne Bilgo, ARISE Fellow, Institut de Recherche en Science de Sante, Burkina Faso
* Dr. Bartholomew Ondigo, APTI Fellow, Egerton University, Kenya
* Dr Protus Arrey Tarkang, ARISE Fellow, Institute of Medical Research and Medicinal Plants Studies, Cameroon
* Dr. Hamma Maiga, APTI Fellow, Institut National de Recherche en Santé Publique, Mali
* Dr Dacquin Kasumba, ARISE Fellow, Institut National de Recherche Biomédicale, Democratic Republic of Congo
* Dr Judicaël Obame-Nkoghe, ARISE Fellow, University of Science and Technology of Masuku, Gabon
* Dr Musa Kana, APTI Fellow, Federal University Lafia, Nigeria

Q&A Session |
| 11:15 – 12:45 | **Research Spotlight Talks***Venue: CTICC**Moderator: Prof. Marleen Temmerman, Aga Khan University, Kenya** Dr Nada Abdel Aziz, ARISE Fellow, Cairo University, Egypt
* Dr Irene Offei Owusu, APTI Fellow, University of Ghana
* Dr Grace Jopaul Loubota Panzou, ARISE Fellow, Marien Ngouabi University, Republic of Congo
* Dr. Thomas Hormenu, APTI Fellow, University of Cape Coast, Ghana
* Dr Laty Gaye Thiam, ARISE Fellow, Institut Pasteur de Dakar, Senegal
* Dr. Sidy Ba, ARISE Fellow, University of Bamako, Mali
* Dr. Mary Oboh, ARISE Fellow, Medical Research Council Unit, The Gambia
* Dr Charles Ndawula, National Livestock Resources Research Institute, Uganda
* Dr Violet Kayamba, ARISE Fellow, University of Zambia, Zambia
* Dr. Getachew Tesfaye Beyene, ARISE Fellow, Armauer Hansen Research Institute, Ethiopia
* Dr. Idowu Aimola, APTI Fellow, Ahmadu Bello University, Nigeria

Q&A Session | **Session 6: Framework of AAS Strategic Plan 2023 – 2027***Venue: CTICC**Moderator: Lydia Manoti, AAS** *Details to be shared*
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| 12:45 – 13:45 | **Lunch break** |
| 13:45 – 15:30 | **Panel discussion: Needs & Technologies for healthy societies with responsive & resilient health systems***Moderator: Prof. Cherif Matta, MSVU, Canada**Rapporteur: Mr. Rowland Opisa, AAS**Panelists:** *Prof. Marleen Temmerman, Aga Khan University, Kenya*
* *Prof. Jean-Paul Moatti, IRD, France*
* *Dr. Benjamin Kumwenda, AESA-RISE Postdoc Fellow, University of Malawi, Malawi*
* *Dr. Nana Ama Amissah, APTI Fellow*
* *Dr. Dacquin Kasumba, ARISE Fellow*
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| 15:30 – 17:00 | **Session 7: AAS Business Meeting [AAS Fellows only]***Moderator: Executive Director Dr. Peggy Oti-Boateng, AAS Executive Director** Reflection on the three days’ activities
* Closing remarks from the Prof. Felix Dakora, AAS President
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**WEDNESDAY, 7 DECEMBER 2022**

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| 11:30 -13:00 | Thematic Session 1/C: Establishing an African knowledge democracy for increased social justice and development*Venue: CTICC**Moderators: Prof. Caroline Ncube- ASSAF* *Prof. Iqbal Parker-AAS, Vice President, Southern Africa*Panel discussion on establishing an African knowledge democracy for increased social justice and developmentPanellists: Dr Tom Olyhoek, Prof Joy Owango, Prof. Felix Dapare Dakora, Prof. Thuli Madonsela, Dr Magdalena Skipper |
| 14:00-16:00 | ARISE joint SSC + SAC Meeting [Closed for ARISE-SAC Members Only] |

**THURSDAY, 8 DECEMBER 2022**

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| 09:00-11:30 | End of Grant Workshop for AESA-RISE Postdoc Fellowship [AESA-RISE Fellows and partners only]*Venue: CTICC* |
| 17:00-18:30 | **Thematic session IV/e: challenges of urbanization: food security in Africa***Venue: CTICC**Moderator: Prof. Frans Swanepoel* Panel discussion on Challenges of Urbanization: Food Security in AfricaPanellists: Prof Lise Korsten, Dr Thomas Kivevele, Dr Jessica Thorn, Prof. Mary Abukutsa |
| 20:00-22:00 | Gala Dinner: Organized by Department of Science and Innovation and the African Academy of Sciences* Induction of 2020 & 2021 AAS Fellows and Associates- 71 new inductees
* Induction of 2021 AAS Affiliates- 50 Affiliates
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