**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, AAS  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 * 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 |
| 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 |
| 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 |

**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* |

**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* |
| 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* | |
| 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 | |

**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 development  Panellists: 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 Africa  Panellists: 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 |