



# Science Forum SOUTH AFRICA

Science Forum South Africa 2020

*“Still igniting conversations about Science”*

9-11 December 2020

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## Wednesday December 9, 2020 Parallel Sessions



### Science Forum South Africa 2020

“Still igniting conversations about science”

9-11 December 2020

#### *Description of Parallel Sessions organised by Partners for Online Publication*

Session Title: The Fabric of Dissent: Public Intellectuals in South Africa, edited by Vasu Reddy, Narnia Bohler-Muller and Greg Houston (HSRC Press, 2020)

Date: Wednesday December 9, 2020

Time: 16.30 – 17.30

#### **Session Overview:**

Who or what is a public intellectual and how are they created? What is the role of the public intellectual in social, cultural, political and academic contexts? What are the kinds of questions they raise? What compels intellectuals to put forward their ideas?

*The Fabric of Dissent: Public Intellectuals in South Africa* is a pioneering volume, presenting a rich tapestry of South African men and women who have been able to break through narrow formulations of identity into a larger sense of what it means to be human. Each brief portrait provides readers with an opportunity to consider the context, influences and unique tensions that shaped the life journeys of the people assembled here. The book showcases an astonishing array of achievements as well as the deep imprint of these intellectuals on public life, motivating why they should be considered public intellectuals. As South Africans continue to grapple with their complex past, present and future, it is clear that the insights of these remarkable people into reimagining an inclusive society continue to be relevant today.

This session will explore the main themes of the book and narrate the history of its making.

#### **Programme:**

This session is a plenary programmatic item of the opening day of the Science Forum 2020. It will be 75 mins.

8 - 10 minute presentation by Vasu Reddy (The volume's pre-history, concept, process and architecture of what we tried to achieve)  
8 - 10 minute presentation by Narnia Bohler-Muller (The volume's CONTENT and it's iterative process incl. future volumes)

**Respondent:**

10 min by Dr Sithembile Mbete (U)  
10 min by Prof William Gumede (UP)

Facilitate Q & A (20 - 30 minutes)

**Moderator:**

**Professor Crain Soudien**

Crain Soudien is the Chief Executive Officer of the Human Sciences Research Council and formerly a Deputy Vice-Chancellor at the University of Cape Town where he remains an emeritus professor in Education and African Studies. His publications in the areas of social difference, culture, education policy, comparative education, educational change, public history and popular culture include three books, four edited collections and over 200 articles, reviews, reports, and book chapters, including a 2017 book publication entitled "Nelson Mandela: Comparative Perspectives of his Significance for Education" and "The Cape Radicals: Intellectual and political thought of the New Era Fellowship: 1930s – 1960s", published in 2019.

**Speakers:**

**Professor Vasu Reddy**

VASU REDDY is a Professor of Sociology, and Dean of the Faculty of Humanities at the University of Pretoria, South Africa. His research interests are genders, sexualities, poverty and HIV/AIDS. More recent publications are *Queer in Africa: LGBTQI Identities, Citizenship and Activism* (with Zethu Matebeni & Surya Monro, 2018; Routledge); *Queer Kinship: South African perspectives on the sexual politics of family-making and belonging* (with Tracy Morison and Ingrid Lynch, UNISA Press & Routledge, in 2018) and *State of the Nation: Poverty and Inequalities* (with Crain Soudien and Ingrid Woolard, HSRC Press 2019).

**Professor Narnia Bohler-Muller**

Professor Narnia Bohler-Muller is the Divisional Executive of the Developmental Capable and Ethical State (DCES) research division at the Human Sciences Research Council, an adjunct professor of law at the Nelson R. Mandela School of Law in University of Fort Hare and a Research Fellow at the Centre for Gender and African Studies, Faculty of Humanities, University of the Free State. She is an admitted advocate of the High Court of South Africa and has represented South Africa as lead in international for a such as Women20; BRICS and the Indian Ocean Rim Association (IORA). Her research interests include international and constitutional law, gender, human rights, democracy, governance and social justice.

Google Scholar <https://scholar.google.co.za/citations?user=MZIDI3wAAAAJ&hl=en>

ResearchGate [https://www.researchgate.net/profile/Narnia\\_Bohler-Muller](https://www.researchgate.net/profile/Narnia_Bohler-Muller)

LinkedIn <https://za.linkedin.com/in/narnia-bohler-muller-93047868>

**Dr Sithembile Mbete**

Dr. Sithembile Mbete is a lecturer in the Department of Political Sciences at the University of Pretoria where she lectures international relations and South African politics. She is also an Associate Fellow of the Centre for Governance Innovation (GovInn) at the University of Pretoria. She has a doctorate from the University of Pretoria on the subject of South Africa's foreign policy during its two elected terms in the United Nations Security Council (2007-2008 and 2011-2012). She has published on the Economic

Freedom Fighters' (EFF) in accredited journals. Her research has been funded by the National Institute for Humanities and Social Science (NIHSS), National Research Foundation (NRF), the American Social Science Research Council (SSRC) and the Mellon Foundation. In 2014 she was a visiting scholar at the Department of Political Science and Balsillie School of International Affairs at the University of Waterloo in Canada. Sithembile is a 2019 Open Society Foundation Democracy Fellow. She is part of an international study group on the rise of populism across the world.

**Prof William Gumede**

William Gumede is Associate Professor, School of Governance at the University of the Witwatersrand. He is Executive Chairperson of Democracy Works Foundation and former Deputy Editor of The Sowetan newspaper. During the anti-apartheid struggle, Gumede held several leadership positions in South African student, civics and trade union movements. He was a political violence mediator and area coordinator for the National Peace Committee during the multiparty negotiations for a democratic South Africa and was seconded to South Africa's Truth and Reconciliation Commission. He is the author of several number 1 bestsellers. His more recent books include: Restless Nation: Making Sense of Troubled Times (Tafelberg); and South Africa in BRICS – Salvation or Ruination (Tafelberg).

Session organiser(s):

Professor Vasu Reddy – 082 337 2057



Thursday December 10, 2020 Parallel Sessions

Timeslot: 09:00 to 10:00



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**Description of Parallel Sessions organised by Partners for Online Publication**

|  |
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| Session Title: Plenary Session “The Future of Transdisciplinarity: How do we Relearn to be Human in New Ways?” |
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| Date: Thursday December 10, 2020 |
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| Time: 09:00 to 10:00 |
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**Session Overview:**

In this opening plenary session to the first full day of the Science Forum 2020, Dr Mamphela Ramphele will deliver a talk on the topic: “The Future of Transdisciplinarity: How do we Relearn to be Human in New Ways?”

The guiding questions for this talk include: How do we emerge from the planetary emergencies upon us? What tools do we have and do we need to unlearn and relearn new ways of knowing? How can we rediscover Africa’s wisdom in holistic ways of understanding the world and our place within it? And, what is the way forward for learning and being scientists today?

Dr Ramphele’s address will be followed by a response from Professor Coleen Vogel.

**Programme:**

0900-0905 = welcome, introduction of speakers  
0905-0925 = Dr Ramphele address  
0925-0935 = Professor Coleen Vogel response  
0935-0945 = questions and comments among chair and panellists

0945-0955 = questions from the chat box/Q andA  
0955- 1000 = final remarks, thanks and acknowledgements

**Moderator:**

**Professor Daya Reddy**

Professor Daya Reddy holds the South African Research Chair in Computational Mechanics at the University of Cape Town, South Africa.

He was a founder member in 2003 of AIMS, the African Institute for Mathematical Sciences (AIMS), which is now a pan-African network with centres for graduate education, research and outreach in six African countries.

He is actively involved in bodies that work towards strengthening scientific collaboration and convene scientific and policy expertise on issues of major concern to science and society. He is a founder member of the Academy of Science of South Africa, and served a term as its president. He also served a term of six years as co-chair of the policy arm of the InterAcademy Partnership, a global body of academies of science, medicine and engineering.

He is currently president of the International Science Council, a body comprising national and regional scientific organizations from 140 countries and some 40 international scientific unions and associations, across the natural and social sciences.

Daya Reddy is a recipient of the Award for Research Distinction of the South African Mathematical Society, the Order of Mapungubwe, awarded by the President of South Africa for distinguished contributions to science, and of the Georg Forster Research Award from the Alexander von Humboldt Foundation.

**Speakers:**

**Dr Mamphela Ramphele**

Dr Mamphela Ramphele is the co-President of the Club of Rome, and has had a celebrated career as an activist, medical doctor, academic, businesswoman, global public servant and political thinker. Following the Soweto uprising in 1976, she was detained without trial, released after five months and soon afterwards served with an apartheid banning order.

She studied medicine at the then University of Natal, has a BCom degree, a Diploma in Tropical Hygiene, a Diploma in Public Health and a PhD in Social Anthropology.

She went on to become Vice-Chancellor of UCT, then one of four MDs of the World Bank, based in Washington, DC. Dr Ramphele is the author of several books and publications on socio-economic issues in South Africa. She has received numerous national and international awards acknowledging her scholarship and leading role in spearheading projects for marginalised people in South Africa and elsewhere.

**Professor Coleen Vogel**

Professor Coleen Vogel is a Climatologist, Adaptation and Sustainability Specialist based in the Global Change Institute at the University of the Witwatersrand. Her research interests include systemic risk reduction, climate services, drought and the 'human dimensions' specific to the urban landscape. She was one of the key contributors to the writing of the Green and White Papers on South African Disaster Management and was a major contributing author for the Disaster Management Act.

She was one of the Chapter Lead Authors of the Africa Chapter for the Intergovernmental Panel on Climate Change, IPCC 4th Assessment Report and was also an author of the Synthesis Report for Policy Makers of the 4th IPCC Assessment Report. A Nobel Peace Prize was awarded to the author team, together with Al Gore, for the 4th Assessment Report. Professor Vogel has been Chair and Vice Chair of international committees such as the International Human Dimensions Programme, now known together with other international programmes as Future Earth.

She has received the international Burtoni award for her work on climate change advocacy and science of climate change adaptation. Her current research interests include transformative education for global environment change and sustainability, climate change in its broader context and adaptation and disaster risk reduction focusing particularly on the interactions between physical and social dimensions shaping change.

**Session organiser(s):**

HSRC Consortium  
Rachel Adams – [radams@hsrc.ac.za](mailto:radams@hsrc.ac.za) / 081 474 5700



Timeslot: 10:00 to 11:30



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**Description of Parallel Sessions organised by Partners for Online Publication**

Session Title: Conversations with Global Thinkers: Shaj Mohan

Date: Thursday December 10, 2020

Time: 10:00 to 10:45

**Session Overview:**

In this opening session of the HSRC Radical Reason Conversations with Global Thinkers series, Dr Shaj Mohan – a leading and radical philosopher of the subaltern continent – will be interviewed around his work on anastasis and a world after critique.

This series of conversations seek to reflect on the full complexity of the lived experiences and conditions of being in the world now, staged from a place of difference and radicality. In such times – on the horizon of the emergence of a not yet fully determinable world – radical thought, science, ethics, institutional arrangements, and other shared systems of valuation and understanding, are required to give depth and meaning to the full articulation of the questions that we need to be asking now to engender the arrival of a just and equal world to come. No one discipline or system of thought can answer, or fully account for, the questions we are facing as humanity today. We call this, in short, the time for radical reason.

**Programme:**

Dr Adams will interview Dr Mohan.

**Moderator:**

**Dr Rachel Adams**

Rachel Adams is a Senior Research Specialist of the Impact Centre at the Human Sciences Research Council. Dr Adams holds degrees in English Literature and Philosophy (BA, Royal Holloway, University of London), Human Rights Law (MPhil, UCT) and Jurisprudence (PhD, UCT). Dr Adams previously held the position of Senior Researcher Civil and Political Rights at the South African Human Rights Commission and completed post-doctoral studies at the Information Law and Policy Centre, Institute for Advanced Legal Studies, University of London. Her work sits at the intersection of law, ethics, gender and technology. Dr Adams is an Editor for the South African Journal on Human Rights.

**Speakers:**

**Dr Shaj Mohan**

Shaj Mohan is a philosopher based in the subcontinent. His research publications are in the areas of metaphysics, philosophy of technology, reason, politics and truthness. Mohan is the co-author with Divya Dwivedi of *Gandhi and Philosophy: On Theological Anti-Politics* (Bloomsbury, 2019), with a foreword by Jean-Luc Nancy. He is a founder member of the editorial board of a new multilingual international journal « *Philosophy World Democracy* » with Jean-Luc Nancy, Achille Mbembe, Zeynep Direk, and Divya Dwivedi.

**Session organiser(s):**

HSRC Consortium  
Rachel Adams – [radams@hsrc.ac.za](mailto:radams@hsrc.ac.za) / 081 474 5700





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**Description of Parallel Sessions organised by Partners for Online Publication**

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|--|
| Session Title: Influencing Science in Africa Through a Gendered Lens – A Decade of Progress or Stagnation? |
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|----------------------------------|----------------------|
| Date: Thursday December 10, 2020 | Time: 10:00 to 11:30 |
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**Session Overview:**

Epistemically, Africa has been sidelined and silenced as a place where its people are capable of producing knowledge. Science has been unquestionably accepted as a Western practice so that Africa takes science as something passed down from the West. This kind of epistemicide has been unashamedly committed against Africa on the basis of African lacking rationality – a basic requirement for scientific enquiry. It is this same claim about lack of rationality that has relegated women and queer folk to the position of perpetual knowledge consumers. While the reason for this is also, the lack of rationality, the rationale for the exclusion and marginalization of women in sciences also has to do with patriarchy. Cis-gender males have come to own the science space to the point of marginalizing women and queer folk based on discriminatory aspects relating to gender and sexuality. Such discrimination and limitation on women and queer folk are forms of epistemic injustice that need to be rooted out by means of systems that should target policies, as well as legal, religious, and economic frameworks that govern scientific progression. It is imperative to revise the scientific spaces that women and queer folk operate in and re-imagine them as spaces that welcome and nurture the development of women and queer folk in ways that, not only empower women and queer folk, but also develop them as knowledge producers who will influence the evolution of science. Influencing science in Africa through a gendered lens is a process that should necessarily involve intra-, inter- and transdisciplinary collaborations. That said, this panel will endeavor to indulge in a conversation with women in sciences around issues of policy transformation and economic inclusion such as closing the gender pay gap to level the play field.

**Programme:**

Session Chairperson: Dr Palesa Sekhejane

Speakers: Prof Ntebogeng Mokgalaka-Fleischman (TUT)

Prof Salome Maswime (UCT)  
Prof Felix Dakora (AAS)  
Dr Bathabile Ramalapa

Respondent: Prof Kgomotso Masemola (UNISA)

**Moderator:**

**Prof Cheryl Hendricks**

Professor Cheryl Hendricks is the Executive Director of the African Institute of South Africa. She was formerly a Professor of Politics and International Relations at the University of Johannesburg (UJ). Prior to taking up the professorship at UJ, she dedicated eight years of service to the Institute for Security Studies, where she was a Senior Research Fellow in the Conflict Management and Peacebuilding Programme, and head of the Southern African Human Security Programme.

She also worked at the Institute for Justice and Reconciliation, Centre for Conflict Resolution and spent many years teaching in the Political Studies Department of the University of the Western Cape. Professor Hendricks has worked with intergovernmental organisations (e.g. AU, SADC, UN Women), research institutes (e.g. ISS, Codesria, Africa Leadership Centre - Nairobi) and civil society organisations (e.g. Club of Madrid and Africa Forum (former heads of state), SADC Gender Protocol Alliance, Isis Wicce).

Prof Hendricks has built substantive insights in conflict management, security, gender, governance and peacebuilding, consistently delivering extensive contributions to society by way of her institutional and academic citizenship and professional associations. Her widely published works and presentations include constructive views on Peace and Security in Africa, Women Peace and Security, Security Sector Reform and Governance, Regional Security Architectures, South African Engagement in Post-Conflict Development and on Decolonization of Knowledge.

**Speakers:**

**Prof Ntebogeng Mokgalaka-Fleischman**

Prof Ntebogeng Mokgalaka holds a DTech in Chemistry from the Tshwane University of Technology (TUT). She is a NRF-rated Full Professor in Environmental Analytical Chemistry and Acting Assistant Dean: Teaching, Learning and Technology in the Faculty of Science at TUT. Professor Mokgalaka is the South African Chairperson for the South Africa-Sweden Universities Forum (SASUF) Academic Advisory Committee for Climate Change, Natural Resources and Sustainability.

**Dr Palesa Sekhejane**

Dr Palesa Sekhejane holds an MTech and a DTech in health sciences from the University of Johannesburg. She is a medical technologist who specialised in biophotonics, which is the application of light-based (laser) medicine to a biological system, in a simulated diabetic model for example, as well as photodynamic therapy for cancer treatment. Sekhejane is a research specialist at the HSRC. During her studies, she published work emanating from her research experiments, resulting to 11 journal articles and a book chapters. Her current research interests are in bioeconomy policy, biosciences, biomedical innovation and technology. She was part of the scientific committee and organising committee of the first Gender Summit Africa in 2015. She was also a member of the woman and gender cluster of the Economic, Social and Cultural Council (ECOSOCC), an advisory organ to the African Union. Sekhejane is a research associate at the University of Johannesburg (UJ) and a co-supervisor of master's candidates in the Applied Sciences Research Unit of UJ's Faculty of Sciences. She is also a member of Organisation for Women in Sciences Development, which champions and addresses the obstacles faced by women in developing countries. This landed her into participating at the launch of prestigious Next Einstein Forum. She is the co-founder and the co-chairperson of the UJ-

led maiden international conference on Food Security and Safety. She was recently nominated through a competitive process to participate at the BRICS Young Scientist's Forum in Brazil (2019), as one of the bioeconomy scientists. She also forms part of L'Oréal Sub Saharan team for Women in Sciences. She was one of the young scientists that were successful in representing South Africa at the BRICS Young Scientists Forum in 2019. She is the Principal Investigator of the study investigating the Socioeconomic Impacts of Liquor in Mpumalanga (2019-2020).

#### **Professor Felix Dapare Dakora**

Prof Felix Dapare Dakora obtained his BSc (Hons) degree in Agriculture from the University of Ghana in 1977, an MSc degree from the University of Sydney, Australia, in 1981, and a PhD in Botany from the University of Western Australia, Perth, 1989. He currently holds a South African Research Chair in Agrochemurgy and Plant Symbioses at the Tshwane University of Technology, South Africa. Prof Dakora is President of the African Academy of Sciences. He is also Fellow of the African Academy of Sciences, Member of the Academy of Sciences of South Africa, Fellow of TWAS, Foreign Fellow of the Chinese Academy of Engineering, and Fellow of the Royal Society of South Africa. He currently serves as Adjunct Professor to the University of Western Australia (June 2012 to May 2021), Distinguished Professor of Hebei Agricultural University, and Distinguished Professor of China Agricultural University, Beijing.

Prof Dakora is passionate about capacity building, and has trained 67 postgraduate students (47 Master's and 20 doctoral) from 15 African countries between 1994 and 2019. Of the 67 Master's and doctoral students trained, 47% are Female and 53% Male. And of the 20 doctoral students supervised by Prof Dakora, 10 are Female (50%), and 10 Male (50%), an excellent score for gender balance in science in his laboratory.

#### **Professor Salome Maswime**

Salome Maswime is an associate Professor and the Head of the Global Surgery Division at the University of Cape Town; an Obstetrician and Gynaecologist; a World Economic Forum Young Scientist; Next Einstein Fellow; and President of the South African Clinician Scientists Society. She is a former research fellow at the Massachusetts General Hospital and Harvard Medical School, and former lecturer at the Wits University. She is a trustee of the South African Health Systems Trust, and associate editor of the South African Journal of Obstetrics and Gynaecology; and a member of UNITARs' Global Surgery Foundation leadership team.

#### **Dr Bathabile Ramalapa**

Dr Ramalapa holds a PhD in Chemical Sciences and another in Pharmaceutical Sciences. She is a biotechnologist by training with over 10 years international experience working with biopharmaceuticals. Her current role at the CSIR involves management of research projects and facilitating collaborations with stakeholders from government, academia and private industry in the biotechnology space. Her main research focuses on the development of advanced drug delivery systems for diseases with a high burden in Africa and she hosts a track record of publications in high impact factor journals and has presented her work globally.

Session organiser(s):

Human Sciences Research Council, Academy of Sciences SA, National Research Foundation.

Contact: Dr Palesa Sekhejane

Contact details: [psekhejane@hsrc.ac.za](mailto:psekhejane@hsrc.ac.za)



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***Description of Parallel Sessions organised by Partners for Online Publication***

Presented by EuroScience

|   |                      |
|---|----------------------|
| Session Title: Promoting diversity and inclusion in Science   |                      |
| Date: Thursday December 10, 2020  | Time: 10:00 to 11:30 |
| <p><b>Session Overview:</b></p> <p>It is a well-known fact that high degree of diversity in a research team leads to more productivity and higher quality of the scientific output. Despite this, research still has a diversity problem and many social groups are underrepresented in research including women, ethnic minorities, people with disabilities and socially disadvantaged populations. Attention to the issue is growing, and some institutions and scientific communities are actively seeking to increase diversity. But far more needs to be done.</p> <p>To create an inclusive culture in research requires a complex multilevel approach that concerns not only principal investigators and HR personnel at research performing organisations but starts already in higher education where students are training to be responsible researchers with an inclusive approach towards their science. This panel aims at stimulating the discussion by presenting different models approaches how to foster inclusiveness and increase diversity in the research community.</p> |                      |
| <p><b>Programme:</b></p> <ul style="list-style-type: none"> <li>• Presentations by the Speakers (15 min each) -45 min</li> <li>• Questions by the moderator – 15 min</li> <li>• Q/A from the audience -30 min</li> </ul>  |                      |
| <p><b>Moderator:</b></p> <p><b>Gail Cardew</b></p> <p>Gail Cardew is an internationally recognised expert in the connection between science and society. As Vice President of EuroScience and emeritus Professor of Science, Culture and Society at the Royal Institution, her mission is to encourage people to think more deeply about science and its place in our lives.</p>  |                      |
| <p><b>Speakers:</b></p>   |                      |

**Ingrid Wüning-Tscholl**

After receiving her PhD in Zoology from the University of Tübingen in 1985, Ingrid did her postdoctoral work at Massachusetts Institute of Technology (MIT), Cambridge, and State University of Stony Brook, US from 1985-1990. Further career steps include positions as Head of Molecular and Cellular Biology at Deutsche Forschungsgemeinschaft (DFG) in Bonn and Head of the European Medical Research Councils at European Science Foundation (ESF) in Strasbourg, France. She joined the Robert Bosch Foundation in 1999, first as Head of Research, since 2005 as Senior Vice President Research, and later as Senior Vice President Strategic Development.

**Angela Zaini (T.B.C.)**

Angela Saini is an independent British science journalist and author books like *Inferior: How Science got Women Wrong*. She presents radio and television programmes on the BBC. Her latest book *Superior: The return of Race Science* was published in 2019 to widespread critical acclaim and was named a book of the year by the Financial Times, the Guardian and the Telegraph.

**Helena Kovac (T.B.C.):**

Helena is a social scientist with an appetite for a wide variety of topics related to education. Her current work focuses on exploring changes in teaching methods and approaches, strategies of adaptability, and pedagogical innovations her specialties are: Continuous professional development, teacher learning, innovation in education, lifelong learning, educational policy, management in education, identity studies, teaching and lecturing, LGBTIQ issues.

Helena holds a PhD in educational sciences obtained as a Marie Skłodowska-Curie fellow from Eötvös Loránd University in Budapest and from University of Lisbon. She has worked as a consultant for Technopolis Group in UK and prior to that Helena was a trainee with the Directorate -General for Education and Culture at the European Commission.

**Session organiser:**

Matthias Girod [Matthias.girod@euroscience.org](mailto:Matthias.girod@euroscience.org), [www.euroscience.org](http://www.euroscience.org)



**Science Forum South Africa 2020**

**“Still igniting conversations about science”**

**9-11 December 2020**

***Description of Parallel Sessions organised by Partners for Online Publication***

Presented by: European Commission’s Joint Research Centre

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| Session Title: Presenting the Pan African Network for economic Analysis of Policies (PANAP) |
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|                                  |                      |
|----------------------------------|----------------------|
| Date: Thursday December 10, 2020 | Time: 10:00 to 11:30 |
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**Session Overview:**

In the framework of the PANAP (Pan African Network for economic Analysis of Policies- <https://datam.jrc.ec.europa.eu/datam/area/PANAP>) the JRC/AU-DREA/FARA co-organize a session focusing on **policy impact analysis related to the agri-food sectors** in selected Partner Countries of Sub-Saharan Africa. Particularly, the focus is on the analysis of the impact of selected policy measures at the macro and micro (farm-household) levels. Questions refer to the (potential) impact of economic measures, e.g. implementation of the African Free Trade Agreement, and of selected dynamics, including COVID-19 pandemic, on the farming sector, rural areas and smallholder farmers of the Continent, and of selected Sub regions, countries and areas.

Key members of the PANAP network such as AUC-DREA (African Union Department of Rural Economies and Agriculture) and FARA (Forum for Agricultural Research in Africa), as well as partner research institutions from Sub Saharan countries, e.g. Niger, Senegal, Ivory Coast and Kenya are involved

**Programme:**

Opening Session - 9:00-9:15

Welcome and Introduction

JRC, Giovanni De Santi / Giampiero Genovese / Sergio Gomez y Paloma / Fabio Micale

AU-DREA, Dr. Godfrey Bahigwa / Dr. Simplicie Nouala Fonkou / Beatrice Egulu

FARA, Dr. Irene Annor Frempong / Aggrey Agumya / Jonas Mugabe

Ongoing studies session - 9:15–10:30

Potential Effects of the Af-FTA  
JRC, Emanuele Ferrari

COVID-19 impacts and economic recovery in Kenya and Ethiopia.  
Evelyne Kihui, PhD. - Policy Analyst, Kenya Institute for Public Policy Research and Analysis (KIPPRA), Productive Sector Department - Directorate of Integrated Development  
Victor Nechifor, JRC  
(Kidanemariam Berhe Hailu, PhD - Lead researcher, FDRE Policy Studies Institute – TBC)

Policy impact analysis in Niger using an Individual Farm Level model  
Adam Mamadou, *Institut National de la Recherche Agronomique du Niger* - Niger  
JRC, Pascal Tillie

Impacts of the COVID-19 crises on rural household in Côte d'Ivoire: insights from a phone survey  
David Boti, *Institut National de la Statistique* – Côte d'Ivoire  
JRC, Pascal Tillie

Economic analysis of the input subsidy programme in Senegal. Insights from ex-ante analysis and setting of ex-post assessment.  
ISRA, Dr. Cheickh Sadibou Fall  
JRC, Aymeric Ricome

Food Price Crowdsourcing in Africa  
ITTA, Dr. Julius Adewopo, (IITA) <[J.Adewopo@cgiar.org](mailto:J.Adewopo@cgiar.org)>  
JRC, Fabio Micale, Gloria Solano Hermosilla

QA

Closing Session  
JRC, Giampiero Genovese / Sergio Gomez y Paloma / Fabio Micale  
AU-DREA, Dr. Godfrey Bahigwa / Dr. Simplicie Nouala Fonkou / Beatrice Egulu  
FARA, Dr. Irene Annor Frempong / Aggrey Agumya / Jonas Mugabe

**Moderator:**

**Speakers:**

JRC: Giovanni De Santi, Giampiero Genovese, Sergio Gomez y Paloma, Fabio Micale, Emanuele Ferrari  
Victor Nechifor, Pascal Tillie, Gloria Solano Hermosilla, Aymeric Ricome.

AU-DREA: Dr. Godfrey Bahigwa, Dr. Simplicie Nouala Fonkou, Dr. Beatrice Egulu

FARA: Dr. Irene Annor Frempong, Dr. Aggrey Agumya, Dr. Jonas Mugabe

Dr. Evelyne Kihui, PhD. - Policy Analyst, Kenya Institute for Public Policy Research and Analysis (KIPPRA), Productive Sector Department - Directorate of Integrated Development

Dr. Kidanemariam Berhe Hailu, PhD - Lead researcher, FDRE Policy Studies Institute

Dr. Adam Mamadou, *Institut National de la Recherche Agronomique du Niger* - Niger

Dr. David Boti, *Institut National de la Statistique* – Côte d'Ivoire

Dr. Cheickh Sadibou Fall, ISRA, Senegal

Dr. Julius Adewopo, (IITA) <[J.Adewopo@cgiar.org](mailto:J.Adewopo@cgiar.org)>

**Session organiser(s):**

EC-JRC-D4 (European Commission Joint Research Centre, Natural Resources Directorate, Economics of Agriculture Unit)

Giampiero Genovese, Sergio Gomez y Paloma, Fabio Micale, Emanuele Ferrari, Arnaldo Caivano

AU-DREA (African Union Commission, Department of Rural Economy and Agriculture)

FARA (Forum for Agricultural Research in Africa)



Science Forum  
SOUTH AFRICA



**Science Forum South Africa 2020**

**“Still igniting conversations about science”**

**9-11 December 2020**

***Description of Parallel Sessions organised by Partners for Online Publication***

presented by Embassy of Italy

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| Session Title: <b>National Big data hubs and the strategic role of international collaborations</b> |
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|----------------------------------|----------------------|
| Date: Thursday December 10, 2020 | Time: 10:00 to 11:30 |
|----------------------------------|----------------------|

**Session Overview:**

The interest of public administrations in supporting the creation of scientific hubs and research facilities centred around Artificial Intelligence (AI), High Performance Computing (HPC) and Big Data is steadily increasing. Several countries are creating state of the art, world class national hubs, often realized via the optimization and restructuring of existing national research entities in line with a new and more effective strategic perspective. South Africa and Italy are currently moving along this direction.

In Italy, at the end of 2019, the Emilia-Romagna Region supported the creation of the “International Foundation Big Data and Artificial Intelligence for Human Development” (IFAB) <https://www.ifabfoundation.org/>, with the purpose of establishing in Bologna (Italy) a scientific hub for the development and promotion of interdisciplinary research, including social sciences and humanities, based on AI, HPC and Big Data. IFAB supports investigations and research on HPC and AI and their socio-economic impact, the identification of mid- to long-term scenarios for scientific development and technological innovation and multi-disciplinary research focussed on the link between science and industries and science and education.

South Africa is nowadays moving along the same strategic direction and with similar goals and perspectives. The creation of the National Institute for Theoretical and Computational Sciences (NITheCS) is an undergoing process which involves the existing National Institute for Theoretical Physics and the National Integrated Cyber Infrastructure System (NICIS) <https://www.csir.co.za/national-integrated-cyber-infrastructure-system>. At the core of NITheCS will be the disciplines of Theoretical

Physics, Mathematics, Statistics and Data Science. The institute will be active in research in the areas of Astrophysics, Earth and Climate Modelling, Quantitative Biosciences and Quantitative Finance. NICIS is a platform that promotes scientific and industrial development through the provision of high-performance computing capability, high-speed network capacity and a national research data infrastructure.

Covid-19 pandemic has accelerated the need for digital transformation and solutions in the social and economic sectors, with an inherent change of paradigm for the creation and delivery of services. This session will create an opportunity to discuss the collaboration between IFAB, NITheCS and NICIS and frame it within a wider African context.

**Programme:**

The session will highlight the outcomes of the discussion that Italian and South African institutions involved in the sector of Big Data, AI and HPC had in the working meeting organized on the 7th December 2020 as a side event of the SFSA2020. The moderator will engage the panellists in a discussion aimed at describing the potential collaborative actions that were identified on the 7th December ( such as areas of collaboration, priorities, possible projects) and on how these actions can be framed within a larger African and European framework. The final part of the session will be open to answers from the audience.

**Moderator:**

**Prof. Igle Gledhill – University of the Witwatersrand**

Visiting Adjunct Professor in Flow Physics at the University of the Witwatersrand. For 30 years, she specialised in transonic computational fluid dynamics at the CSIR. She also contributed within multidisciplinary collaborations including rational drug design, ocean engineering, and mine safety. She served on the executive of the Gender Gap project of the International Science Council. She is a Past President of the South African Institute of Physics, and a council member of SACNASP and the Academy of Science of South Africa. She is Editor-in-Chief of African Physics Newsletter, and one of three Vice-Presidents of the Network of African Science Academies

**Speakers:**

**Prof. Francesco Petruccione – Director National Institute for Theoretical and Computational Sciences – University of KwaZulu-Natal**

Prof Francesco Petruccione studied Physics at the University of Freiburg i. Br. and received his PhD in 1988 and the “Habilitation” degree (Dr. rer. nat. habil.) in 1994. In 2004 he was appointed Professor of Theoretical Physics at the University of KwaZulu-Natal (UKZN), in Durban (South Africa). In 2007 he was granted the South African Research Chair for Quantum Information Processing and Communication. At present, he is the interim Director of the National Institute for Theoretical Physics, Pro Vice-Chancellor Big Data and Informatics of UKZN, and Adjunct Professor of the Korean Advanced Institute for Science and Technology (KAIST).

**Dr. Happy Sithole – Director Centre for High Performance Computing – Council for Scientific and Industrial Research**

Dr Happy Sithole is the Centre Manager for the South African cyberinfrastructure (CI) system, NICIS since 2019. He is responsible for the coordination of this system so that it meets the demands of the South African National System of Innovation, in support of the Department of Science and Innovation. This involves the three main entities of the CI, Centre for High-Performance Computing (CHPC), South African National Research Network (SANReN), Data Intensive Initiative of South Africa (DIRISA). Sithole

also sits on the steering committees of high-performance computing meetings in Germany, Russia and Singapore.

**Dr. Sanzio Bassini** - Director of Supercomputing Application and Innovation Department of Cineca, Italian Inter University Consortium

**Dr Sanzio Bassini.** Director of Supercomputing Application and Innovation Department of Cineca, Italian Inter University Consortium. He has been Independent reviewer of many international digital infrastructure projects, recently Member of the Expert committee of the Canadian Major Science Initiative Fund 2017 - 2022. He served as Vice Chairman for the Research Area of European Technology Platform for HPC - ETP4HPC AISBL in the years 2012 – 2014 and as Chairman of the Partnership for Advanced Computing - PRACE Council in the period 2014 – 2106. Currently he is Member of the EuroHPC Infrastructure Advisory Board and Leader of EuroHPC Italian Pre-Exascale Infrastructure Leonardo project.

**Dr. Anwar Vahed** – Director of Data Intensive Research Initiative of South Africa - Council for Scientific and Industrial Research

Dr Anwar Vahed is the director of the Data Intensive Research Initiative of South Africa (DIRISA). He manages the implementation of a national research data infrastructure that supports data intensive research, coordinates the development of relevant expertise, and the implementation of policies for research data management. DIRISA, together with the Centre for High Performance Computing (CHPC) and the South African Research Network (SANReN), forms the technology component of the National Integrated Cyberinfrastructure System of South Africa. He is a computer scientist with more than 20 years academic experience, and with interests in the data sciences, machine learning and research data management

**Session organiser(s):**

Pierguido Sarti

Italian Embassy in South Africa  
796 George Ave.  
0083 Arcadia – Pretoria

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**Science Forum South Africa 2020**

**“Still igniting conversations about science”**

**9-11 December 2020**

***Description of Parallel Sessions organised by Partners for Online Publication***

presented by United Nations Conference on Trade and Development

Session Title: Launch of the Project on *Technology assessment in the energy and agricultural sectors in Africa to accelerate progress on Science, Technology and Innovation*

Date: Thursday December 10, 2020

Time: 10:00 to 11:30

**Session Overview:**

The session will launch the Technology Assessment project with the objective of strengthening capacities of national Science, Technology and Innovation (STI) policymakers and other stakeholders in selected developing countries in Africa in designing and implementing policies that support the learning, diffusion and adoption of technologies in the energy and agricultural sectors and help build resilience to and recovery from the COVID-19 pandemic and future health emergencies. The main problem that this project addresses in target countries is the lack of capabilities to understand the socioeconomic and environmental implications of new and emerging technologies in the energy and agricultural sectors so that their benefits can be harnessed and their potentially negative effects minimized. The project will support STI policy makers and other stakeholders in target countries in Africa to design and implement a technology assessment exercise in the energy and agricultural sectors, and to take action to utilize technologies as catalysts for sustainable development. Enhanced capacity would be demonstrated by having identified and characterized the relevant technological trends and associated socio-economic and environmental implications in the area of energy and/or agriculture, as well as having an action plan for these technological sectors in each target country defined and adopted by various stakeholders. UNCTAD will serve as the lead entity involved in project implementation with substantive and logistical support from UNEP, FAO, UNECA, and UNDP. The project will commence in early 2021.

**Programme:**

1. Opening remarks by UNCTAD

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| <ol style="list-style-type: none"> <li>2. Keynote speech by Department of Science and Technology of South Africa</li> <li>3. International experts to share cases of doing technology assessment</li> <li>4. Presentation of the UNCTAD project</li> <li>5. Plan of the DST/South Africa on implementing the project in South Africa</li> <li>6. Concluding remarks by the Moderator</li> </ol>   |
| <p><b>Moderator:</b></p> <p>Mr. Angel Gonzalez Sanz, Head of Science, Technology and ICT Policy Branch, Division on Technology and Logistics (DTL), UNCTAD</p>  |
| <p><b>Speakers:</b></p> <ul style="list-style-type: none"> <li>• <b>Ms. Shamika N. Sirimanne</b>, Director, DTL, UNCTAD (opening remarks) <ul style="list-style-type: none"> <li>- High-level official from the Department of Science and Technology, South Africa (keynote speech)</li> <li>- International experts to share cases of doing technology assessment</li> </ul> </li> <li>• <b>Mr. Bob Bell</b>, Economic Affairs Officer, STI Policy Section, STICT Branch, DTL, UNCTAD (presentation of the project)</li> <li>• <b>Mr. Selby Modiba</b>, Deputy Director of Multilateral Cooperation, Department of Science and Technology (plan of the Department on implementation of the project)</li> </ul> |
| <p><b>Session organiser(s):</b></p> <p>DTL/UNCTAD &amp; DST/South Africa</p>  |



# Science Forum

## SOUTH AFRICA



**Science Forum South Africa 2020**

**“Still igniting conversations about science”**

**9-11 December 2020**

Presented by Department of Higher Education and Training, Universities South Africa, Embassies of Finland and Germany

Session Title: Enhancing cooperation between universities and private sector to improve work skills and employability: lessons learnt from Europe and South Africa collaboration.

Date: Thursday December 10, 2020

Time: 10:00 to 11:30

**Session Overview:**

South Africa suffers from grave youth unemployment even among the university graduates, and COVID19 pandemic has made the situation much worse due to growing unemployment and loss in academic year. There is a need to enhance understanding on the bottlenecks in employability and work skills of the university graduates in conversation with both university and private sector representatives. There are good models to share both in South Africa and Europe which will be presented as case studies during the webinar.

The session would interrogate the following issues:

- 1) frame and identify **the challenges and local models** in work skills development
- 2) **Presentation of Best Practices** from RSA and Europe (i.e. Baden-Wuerttemberg Cooperative State University, SUCSESS Project by Finland, RSA and UK);
- 3) **learning from the perspectives of the private and public employers** (e.g. Business Unity of South Africa)
- 4) drawing some **lessons learnt and outlining next steps in the conversation**

The webinar event is open to education officials in South Africa, university personnel responsible for curriculum development, South African business community, European business community present in South Africa as well as all interested participants of the Science Forum.

**Programme:**

Opening Remarks by the Organisers and Moderator (5 min)  
Framing the challenges and presenting local experiences, CUT ( 10 min)  
SUCSESS Project (Finland and UP) and lessons learnt (10 min)  
Dual Master Program and lessons learnt (Germany) (10 min)  
Work-integrated Learning Partnership and lessons learnt (Ireland) (10 min)  
Commentary from Business Unity of South Africa (5 min) tbc  
Moderated discussion with panelist (30 min)  
Summary and Closing Remarks by USAf (10 min)

**Moderator:**

**Ms. Iina Soiri** Education and Science Counsellor, Embassy of Finland, Pretoria

**Speakers:**

**Dr. Henri Jacobs**, Deputy Director: Work Integrated Learning & Skills Development, CUT  
Prof Jacobs has 24 years' experience in Work Integrated Learning and 10 years' experience in skills development. My doctoral degree focused on the development of a strategy to optimize the contribution of Work Integrated Learning towards enhancing the employability of students (at the Central University of Technology, Free State in South Africa).

**Dr. Eva Holmberg**, Haaga Helia University of Applied Sciences, Finland,  
Dr. Holmberg is a senior lecturer and project manager at HAAGA-HELIA University of Applied Sciences. She teaches students in Bachelor and Master degree programs offering courses related to research and development methods, responsible tourism and destination management. Her research interests are mainly related to destination management, responsible tourism development and inquiry learning. She has currently been involved in several Erasmus+ projects and currently working as a project manager for the by Haaga-Helia UAS coordinated Erasmus+ capacity building SUCSESS project targeting the Republic of South Africa

**Dr. Jarmo Ritalahti**, Haaga –Helia University of Applied Sciences, Finland  
Dr. Ritalahti is a principal lecturer of tourism at Haaga-Helia University of Applied Sciences and head of Master Degree in Aviation and Tourism Business. His main areas of expertise are tourism, travel intermediation and pedagogical and curriculum development in higher education. Jarmo Ritalahti has worked in numerous development and research projects especially in pedagogical development and tourism as a regional development tool. He has published more than ten peer-reviewed journal and reader articles, conference papers and educative books.

**Prof Berendien Lubbe, University of Pretoria**

Prof. Lubbe holds PhD in Communication Management and is an Emeritus Professor and Research Associate in the Department of Historical and Heritage Studies at the University of Pretoria in South Africa. Her research currently focusses on contemporary issues in tourism and she specialises in the role of air transport in tourism and business travel. She has published in numerous journals and her books on *Tourism Distribution* and *Tourism Management in South Africa* have been widely prescribed. She has received the Laureate Award from the University of Pretoria for her contribution to educational innovation and is a past Board member of the International Federation for Information Technologies in Travel and Tourism (IFITT).

**Prof. Andre van Zyl**, Baden-Wuerttemberg Cooperative State University (DHBW), Germany

**Dr. Frances Finn** - Lecturer in Nursing at Waterford Institute of Technology, Ireland

Frances is a lecturer in the Department of Nursing and Healthcare at Waterford Institute of Technology and Course Leader for the Postgraduate Diploma in Nursing Programme. Her responsibilities include teaching and supervising students on the undergraduate/postgraduate nursing and applied healthcare programmes; maintaining links with clinical practice through her link lecturer role and curriculum development. She also has a key interest in health informatics and connected health and is a member of the Health Informatics Society of Ireland Nursing and Midwifery (HISINM). Her research interests focus on (1) the sustainable impact of postgraduate nurse education on both practitioner and practice development through work based learning; and (2) new ways of working through connected health.

**Dr. Penelope Engel-Hills** - Faculty of Health and Wellness Sciences, CPUT

Penelope Engel-Hills received the Diploma degrees in diagnostic and radiation therapy, the B.Sc. degree (Hons.) in radiation oncology, the M.Sc. degree in medical physics from the University of Cape Town (UCT), and the D.Tech. degree in radiography from CPUT. She is the Dean and an Associate Professor with the Faculty of Health and Wellness Sciences, Cape Peninsula University of Technology. She also has a Postgraduate Teaching Diploma and a Postgraduate Certificate in International Research Ethics from UCT and a Counseling Certificate from UNISA. Her research focus is professional education, radiation protection, and medical imaging in a range of environments, including multiple sclerosis and radiology in Zimbabwe. She has extensive experience in health science education on the African continent through long-term involvement with the IAEA and curriculum development at a number of universities in Africa.

**Mr. Mustak Ally**, Business Unity South Africa (tbc)

**Prof. Ahmed Bawa**, CEO Universities South Africa. Formerly vice-chancellor at Durban University of Technology. Professor Bawa is a theoretical physicist and works also in the areas of higher education and development and science and society.

#### Session organiser(s):

**TEAM EUROPE, DHET and Universities of South Africa USAf.**

Ms. Iina Soiri  
Education and Science Counsellor  
Embassy of **FINLAND**  
[iina.soiri@formin.fi](mailto:iina.soiri@formin.fi)

Dr. Susan Kieffer/Helen Crafford  
Embassy of Germany

Prof. Ahmed Bawa  
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**Science Forum South Africa 2020**

**“Still igniting conversations about science”**

**9-11 December 2020**

***Description of Parallel Sessions organised by Partners for Online Publication***

Presented by Department of Science and Innovation

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| <p>Session Title: <b>Legacy of South Africa’s AU Chairship: Trade and Innovation under the African Continental Free Trade Area</b></p> |
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|                                  |                      |
|----------------------------------|----------------------|
| Date: Thursday December 10, 2020 | Time: 10:00 to 11:30 |
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**Session Overview:**

The 18th Ordinary Session of the Assembly of Heads of State and Government of the African Union, held in Addis Ababa, Ethiopia in January 2012, adopted a decision to establish a Continental Free Trade Area by an indicative date of 2017. This deadline was, however, not met. The Summit also endorsed the Action Plan on Boosting Intra-Africa Trade (BIAT) which identifies seven priority action clusters: trade policy, trade facilitation and productive capacity, trade related infrastructure, trade finance, trade information, and factor market integration.

The AfCFTA will bring together all 55 member states of the African Union covering a market of more than 1.2 billion people, including a growing middle class, and a combined gross domestic product (GDP) of more than US\$3.4 trillion. In terms of numbers of participating countries, the AfCFTA will be the world’s largest free trade area since the formation of the World Trade Organization. Estimates from the Economic Commission for Africa (UNECA) suggest that the AfCFTA has the potential both to boost intra-African trade by 52.3 percent by eliminating import duties, and to double this trade if non-tariff barriers are also reduced. The main objectives of the AfCFTA is to also expand intra-African trade through better harmonization and coordination of trade liberalization and facilitation and instruments across the RECs and across Africa in general. The AfCFTA is also expected to enhance competitiveness at the industry and enterprise level through exploitation of opportunities for scale production, continental market access and better reallocation of resources.

If targets for economic integration are going to be made, then African countries need to develop and enhance their STI capabilities in order to beneficiate their mineral resources for market within the continent, produce and manufacture technologies and innovation services and increase their market sophistication to capitalise on the regional and continental value chains. As stated by President Cyril Ramamphosa. “We must all ensure that the AfCFTA does not become a conduit for products with minimal African value addition to enter and penetrate our local markets under the guise of continental integration.”

**Programme:**

11:45 Welcome

11:50 Innovation Performance as a Key Driver of Economic Competitiveness

12:30 Stimulating regional and continental Value Chains for locally manufactured innovations: What is needed

13:10 Closure

**Moderator:**

**Speakers:**

**Session organiser(s):**

Tinyiko Ntshongwana (0718547185)

Zimasa Nqabeni ([zimasa.nqabeni@dst.gov.za](mailto:zimasa.nqabeni@dst.gov.za))





Science Forum South Africa 2020

“Still igniting conversations about science”

9-11 December 2020

*Description of Parallel Sessions organised by Partners for Online Publication*

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| Session Title: <b>Digital Inclusion Research and Covid-19</b> |
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|                                  |                      |
|----------------------------------|----------------------|
| Date: Thursday December 10, 2020 | Time: 10:30 to 11:30 |
|----------------------------------|----------------------|

**Session Overview:**

In our increasingly digitized world each individual should have the basic right to have access to the Internet and mobile communication. We know that access needs to be complemented by the skills and competences to use these technologies and by support structures that help people when necessary. Attention in research has therefore shifted from access itself to the use of the technology. Differences in use, the integration of technology into daily life is highly unequal. Some groups use the technology mainly for entertainment purposes, other groups use the same technology in a highly functional way. To understand these differences allows for new ways to develop appropriate initiatives and policy to foster more autonomous use.

Covid-19 and the resulting lock downs have radically rushed us into the digital life. We work using Teams or Zoom, we learn using online platforms, we socialize using social media. Yet not all have access to the right equipment, not all have the skills needed and not all can follow the pace of change. Covid-19 has put digital inequality into the limelight again. Most surprisingly especially in the West where it has become a top priority for governments.

The CoLab for digital inclusion and social innovation, the Information Systems Department of the University of the Western Cape and its befriended research centers SMIT and MICT from the Vrije Universiteit Brussel and the University of Ghent are leading centers on digital inclusion research in their respective countries. Over the last 15 years they also have exchanged views and methodologies and have collaborated on joined projects.

In this panel experts will focus on new insights into digital inclusion research in South Africa and Flanders/Belgium. They will compare the current discussions. They will reflect on the lessons learned from Covid-19 in relation to digital inclusion and point to new roads forward.

**Programme:**

Introduction

Current research and insights on digital inclusion

    Social Support for Digital Inclusion

    Samsung Lab and Project

    ICT & Gender

    Schools and Digital Inclusion

Reflections on Covid-19 and digital inclusion

Reflections from higher education

Q&A 20 minutes

**Moderator:** Prof. Dr. Shaun Pather (UWC Head of Department of Information Systems)

Shaun Pather, is Professor and Chair of the Department of Information Systems in the Faculty of Economic and Management Sciences at the University of the Western Cape. He is an ICT policy specialist whose academic research focuses on Information Society issues, centered around societal upliftment facilitated by ICT's, and the impact thereof on policy. Shaun has been involved in several telecommunications interventions which seek to deliver broadband solutions to marginalized communities. He actively pursues national and international advocacy for grassroots-based solutions to address the challenges of the rural digital divide. His research output includes papers on ICT for Development (ICT4D), E-Government and IT Evaluation.

**Speakers:**

**Prof. Dr. Leona Craffert (Advisor CoLAB UWC and Adjunct Professor Wits Business School)**

She is a research psychologist and change management specialist with experience in the research, business, social-development and academic sectors. For most of her career she focused on the people-technology interface and for the past nine years collaborated in a national network of universities, government, community organisations and international partners (VUB, UGent) for the advancement of digital inclusion, digital social innovation and capability development for the digital economy.

**Prof. Dr. Mmaki Jantjies (UWC-Associate Professor Department of Information Systems)**

Mmaki Jantjies is an Associate Professor in Information Systems and an NRF rated researcher. She is passionate about digital inclusion and is currently working on investigating the role of augmented reality technology in under-resourced science schools.

**Larry Pokpas (UWC Institutional Planner 1 Executive Assistant to the Vice-Chancellor)**

**Prof. Dr. Leo Van Audenhove (VUB Head of Department Communication Studies & UWC)**

Leo Van Audenhove is professor and head of department at the Department of Communication Studies of Vrije Universiteit Brussel. He is a researcher at imec-SMIT – Studies on Media, Innovation and Technology at the same university. He is extra-ordinary professor at the University of the Western Cape. In 2013, he was instrumental in setting up the Knowledge Centre for Digital and Media Literacy in Flanders, of which he is the director. The centre was established by government as an independent centre to promote digital and media literacy in Flanders. His research focuses on media and data literacy, e-inclusion, internet governance and ICT4D.

**Dr. Ilse Mariën (VUB) (Senior Researcher imec-SMIT)**

Ilse Mariën is a post-doc researcher at imec-SMIT Vrije Universiteit Brussel (VUB) where she is leading several policy-oriented projects related to the societal impact of digitalization, digital inequalities, digital skills and e-inclusion. Ilse heads the Data Governance and Communities Unit – a team of over 19 junior and senior researchers – and coordinates the Databuzz program which focuses on strengthening data literacy within schools and adult education. She also teaches Policy Analysis in the Communication Science department of VUB.

**Prof. Dr. Lieven Demarez (UGhent)**

Lieven De Marez is a full professor, affiliated to the dept of Communication Sciences, University of Ghent (UGent). He is responsible for the master programme 'New Media & Society', and teaches 'media, technology & innovation' and 'innovation research'. This methodological expertise is also the core expertise of his research group. Lieven is also the research director of imec-mict-Ugent, the research group on media, innovation and communication technologies: an interdisciplinary group of +50 researchers working together on the mission to empower people in a digitizing society. Leveraging on a broad methodological expertise, the starting point in this research group is a continuous monitoring of adoption, use and impact of digital technologies in all aspects of life, by means of a combination of self-reporting, behavioral logging and cognitive validation methods.

**Session organiser(s):**

University of the Western Cape, Vrije Universiteit Brussel, Universiteit Gent.

Timeslot: 11:45 to 13:15



## Science Forum South Africa 2020

“Still igniting conversations about science”

9-11 December 2020

Presented by: HSRC

### **Description of Parallel Sessions organised by Partners for Online Publication**

Session Title: Violence Against Women: Gender And Social Justice

Date: Thursday December 10, 2020

Time: 11:45 to 13:15

#### **Session Overview:**

Gender Based Violence is not new. Statistics for sexual violence and intimate femicide in South Africa is exceptionally high and as such distressing. Despite a plethora of international conventions and treaties and a strong national legal framework including the Constitution, other pertinent legislation, the creation of equality courts, Thuthuzela Care Centres and hotlines, we are not making progress. There are currently three new amendment bills before parliament, namely the Domestic Violence Amendment Bill; the Criminal Law (Sexual Offences and Related Matters) Amendment Bill; and the Criminal and Related Matters Amendment Bill. The government has just accepted a National Strategic Plan on Gender Based Violence and the Ministry for Women, Youth and People with Disabilities is mandated to create a National Council on Gender Based Violence.

All very noble in their purpose to respond to the crisis, but what about prevention? Women continue to be discriminated against, abused physically and emotionally and even killed – *merely because they are women*. The most recent data from the World Health Organisation shows that South Africa’s femicide rate was 12.1 per 100,000 in 2016, almost five times higher than the global average of 2.6 per 100,000. Until we address discrimination, stereotypes and toxic masculinity, we will not make the progress we need to in order to stop what President Ramaphosa has termed “the second pandemic”.

COVID-19 threw GBV into sharp relief, with many blaming isolation and alcohol as reasons for increased violence and femicide, but the causes go much deeper than this, rooted in tradition, patriarchy and perceiving women as mere objects. Women’s voices remain silenced and so the cycle of violence continues unabated.

The speakers on the panel – gender experts and activists – provide perspectives on violence against women, gender and social justice in order to further probe the failure of the law and human rights to prevent violence against women.

#### **Programme:**

1. Chair: **Prof Narnia Bohler-Muller** (HSRC) (5 min introduction)
2. Prof **Amanda Gouws** (Stellenbosch) (15-20 min presentation) *Gender Based Violence as a Matter of Distributive Justice*
3. **Fundisile Nzimande** (independent consultant) (15-20 min presentation) *Structural and Systemic Gender Based Violence and Women's Rights*

4. Prof **Joleen Steyn Kotze** (HSRC) (15-20 min presentation) *Aluta Continua: Narrating #MeToo and Women's Rights*
5. 30-40 minutes discussion facilitated by Chair
6. 5 min wrap up by Chair

**Moderator:**

**Prof Narnia Bohler Muller**

Professor Narnia Bohler-Muller is the Divisional Executive of the Developmental Capable and Ethical State (DCES) research division at the Human Sciences Research Council, an adjunct professor of law at the Nelson R. Mandela School of Law in University of Fort Hare and a Research Fellow at the Centre for Gender and African Studies, Faculty of Humanities, University of the Free State. She is an admitted advocate of the High Court of South Africa and has represented South Africa as lead in international for a such as Women20; BRICS and the Indian Ocean Rim Association (IORA). Her research interests include international and constitutional law, gender, human rights, democracy, governance and social justice.

Google Scholar <https://scholar.google.co.za/citations?user=MZIDI3wAAAAJ&hl=en>

ResearchGate [https://www.researchgate.net/profile/Narnia\\_Bohler-Muller](https://www.researchgate.net/profile/Narnia_Bohler-Muller)

LinkedIn <https://za.linkedin.com/in/narnia-bohler-muller-93047868>

**Speakers:**

**Prof Amanda Gouws**

Amanda Gouws is Distinguished Professor of Political Science at Stellenbosch University, South Africa. She holds a SARChI Chair in Gender Politics. Her research focuses on women and citizenship, the National Gender Machinery, women's representation in government and Gender Based Violence and she has published widely in these areas. She is the editor of (Un)Thinking Citizenship: Feminist Debates in Contemporary South Africa. (UK: Ashgate and Cape Town: Juta, 2005). Her edited book with Daiva Stasiulis, Gender and Multiculturalism: North/South Perspectives appeared with Routledge Press in 2014. She was a Commissioner for the South African Commission for Gender Equality from 2012-2014. She is a feminist activist.

Her blog: <https://amandagouws.squarespace.com/>

**Fundisile Nzimande**

Fundi Nzimande is the Chief Executive Officer at FundiN Holdings and Chairperson of Rerothle Development Institute, an NPO. She is a renowned author, poet and an activist for women's rights, gender equality and socio-economic justice. She is passionate about justice and making a positive impact in the lives of girls and women through the attainment of gender equality.

She has carried this mission forward in her deployments as Commissioner in the Commission for Employment Equity and the Commission for Gender Equality as well as by participating in numerous international conferences and workshops that look at moving from policy implementation in the eradication of gender, race and class inequality. Fundi has also published her first seminal work on leadership and gender Equality titled – "Leading like a Woman".

Contacts:

[leadinglikeawoman@gmail.com](mailto:leadinglikeawoman@gmail.com)

**Prof Joleen Steyn-Kotze**

Prof. Joleen Steyn Kotze is a Senior Research Specialist in Democracy and Citizenship at the Human Science Research Council and a Research Fellow at the Centre for Gender and African Studies,

University of the Free State. She is a former Associate Professor of Political Studies at the Nelson Mandela Metropolitan University. Her research specialism is political dynamics of development, transformation, and democratization, substantive democratisation and inequality, the politics of belonging with a focus on gender dynamics, and South African political development. She holds a D.Litt et Phil in African Politics from the University of South Africa. She is a C2 NRF Rated Researcher and was awarded the Award for Research Excellence in Interdisciplinary Social Sciences by the Commonground Publishing in 2009 and selected as one of the Nelson Mandela Bay Business Chambers' Top 40 Under 40 in 2014. She is the former President of the South African Association of Political Studies (2014-2016) and the former Editor of Politikon: South African Journal of Political Studies (2015 - 2019).

Session organiser(s):

**Human Sciences Research Council**

Bridgette Prince

Rachel Adams





Science Forum South Africa 2020

“Still igniting conversations about science”

**9-11 December 2020**

**Description of Parallel Sessions organised by Partners for Online Publication**

Presented by the HSRC Consortium

|   |                      |
|---|----------------------|
| Session Title: Discourses of Race   |                      |
| Date: Thursday December 10, 2020  | Time: 11:45 to 13:15 |
| <p><b>Session Overview:</b></p> <p>This HSRC Consortium Roundtable discussion will explore and debate the overlapping and co-constituting discourses of race – the sociological and the scientific – in South Africa. These questions around race – which shape how we understand the world and each other – have been profiled in new ways this year, due to both the racialized effects of the global pandemic and the Black Lives Matter movement. This multidisciplinary discussion will reflect on the new dynamics of the race debate raised by the events of this year, and consider, in particular, their implications for transformationalism and anti-racism in South Africa.</p> |                      |
| <p><b>Programme:</b></p> <p>Open discussion between Professor Crain Soudien, Professor Cathy Burns, and Professor Collet Dandara, facilitated by Professor Himla Soodyall.</p>  |                      |
| <p>Moderator:</p> <p><b>Professor Himla Soodyall</b><br/>         Professor Himla Soodyall is Executive Officer of the Academy of Science of South Africa (ASSAf). She is a Research Professor in Human Genetics at the University of the Witwatersrand (Wits) and was Principal Medical Scientist at the National Health Laboratory Service (NHLS) previously. Soodyal has done ground-breaking genetic research into the peoples of sub-Saharan Africa in which her studies have identified some of the oldest DNA found in living people today, adding weight to the theory that modern humans evolved in the area now known as southern Africa.</p>                                     |                      |
| <p><b>Speakers:</b></p>   |                      |

**Prof Collet Dandara**

Collet Dandara is a Professor of Human Genetics, Principal Investigator of the Pharmacogenomics and Drug Metabolism Research Group at the University of Cape Town. From the early days of his career, Professor Dandara's research and publications focused on foundational studies in pharmacogenetics, and later pharmacogenomics, characterising genomes of African populations to identify genomic clues on differential drug responses observed in patients. His work has laid a firm basis on understanding the profile of genetic variants of pharmacogenomics importance in African populations, leading to novel discoveries as well as providing mechanistic understanding of the functional significance of such genetic variants and the networks they are involved in.

**Professor Crain Soudien**

Crain Soudien is the Chief Executive Officer of the Human Sciences Research Council and formerly a Deputy Vice-Chancellor at the University of Cape Town where he remains an emeritus professor in Education and African Studies. His publications in the areas of social difference, culture, education policy, comparative education, educational change, public history and popular culture include three books, four edited collections and over 200 articles, reviews, reports, and book chapters, including a 2017 book publication entitled "Nelson Mandela: Comparative Perspectives of his Significance for Education" and "The Cape Radicals: Intellectual and political thought of the New Era Fellowship: 1930s – 1960s", published in 2019.

He is also the co-editor of three books on District Six, Cape Town, a jointly edited book on comparative education and the author of *The Making of Youth Identity in Contemporary South Africa: Race, Culture and Schooling*, the author of *Realising the Dream: Unlearning the Logic of Race in the South African School*, and the co-author of *Inclusion and Exclusion in South Africa and Indian Schools*. He was educated at the University of Cape Town and UNISA, South Africa and holds a PhD from the State University of New York at Buffalo.

He is involved in a number of local, national and international social and cultural organisations and is the Chairperson of the Independent Examinations Board, the former Chairperson of the District Six Museum Foundation, a former President of the World Council of Comparative Education Societies and had been the chair of the Ministerial Committee on Transformation in Higher Education and the chair of the Ministerial Committee to evaluate textbooks for discrimination. He is a fellow of a number of local and international academies and serves on the boards of a number of cultural, heritage, education and civil society structures.

**Professor Cathy Burns**

Catherine Burns is a medical and health historian educated in South Africa and the USA. She obtained her BA Hons in History at WITS; and her MA at Johns Hopkins University in Medical History; and then her PhD in African History at Northwestern University, where she co ran a year long Institute on Health and Society in Africa. She has taught at UKZN, UP and WITS; and inaugurated the first medical humanities interdisciplinary programme in the Southern African region. She has taught undergraduates in Humanities and Health Sciences, and supervised many graduate students in humanities and health sciences faculties. Her research and teaching interests include: health in the history of African societies: indigenous, missionary, colonial and biomedical health systems; the history of clinician-led research; reproduction and sex: midwifery, obstetrics, contraception, children's hospitals, the history of sexuality and gender roles; epidemics in Southern African history; nursing and medical education; health systems development; and ethics, race and power in African health settings.

Session organiser(s):

HSRC Consortium

Rachel Adams – [radams@hsrc.ac.za](mailto:radams@hsrc.ac.za) / 081 474 5700



**Science Forum South Africa 2020**

**“Still igniting conversations about science”**

**9-11 December 2020**

***Description of Parallel Sessions organised by Partners for Online Publication***

Presented by: HSRC

Session Title: Education and social justice: themes, debates and dilemmas in post-apartheid South Africa

Date: Thursday December 10, 2020

Time: 11:45 to 13:15

**Session Overview:**

Theories of social justice often point to recognition and redistribution as key concepts to thinking about the social and material resources that require adjustment, if we are to create a more equitable society. In relation to education, recognition and redistribution are shaped by the languages used and valued in educational institutions, the ability to access these institutions and the capitals they hold and the policies that affect both language and access.

In this session we present three chapters from a recent book on education and social justice that speak to each of these themes. The first addresses the post-1994 education policy landscape through which the South African government has attempted to generate redress. An analysis of 20 pieces of education policy and legislation from 1994 to 2019, illuminates a focus on vulnerable groups of learners who come from poor households, live in rural areas, or have special needs. Government has made strides in addressing inequalities, however, some policy goals are largely symbolic, and have led to the unintended consequences of reproducing inequality in educational provision.

The second piece looks at how education reform in South Africa is situated within a policy framework that results in tensions between three groups of stakeholders: children, parents and teachers. While the post-apartheid education system has improved children’s opportunities to learn in some respects, as with the larger economic system, poverty and inequality remain stubborn, reproducing the ‘race’/class profile of inequality. This disjuncture between policy, the interests of particular groups and outcomes creates an urgent need to rethink the process through which the country comes to understand ‘quality education’.

In the final presentation, titled Towards an African Linguistic Renaissance: A case study of a South African University, Zama Mthombeni argues that the inclusion of African languages as additional languages of learning, teaching and research is a crucial step towards an African linguistic renaissance, elevating the status of African languages in academia and social justice more generally. The University of KwaZulu-Natal's implementation of a bilingual language policy, including English and isiZulu, received support among the isiZulu-speaking staff and students and had a positive impact on teaching and learning. The case study challenges African intellectuals and other South African universities, who need to assist in bolstering the importance of African languages in the promotion of social justice.

**Programme:**

Introduction to the debates: Social justice, recognition and redistribution  
Education and social justice: key policy moves  
Redistribution: the interests of different groups  
Recognition: Language in educational institutions

**Moderator:**

**Dr Adam Cooper** is Senior Research Specialist in the Inclusive Economic Development programme of the Human Sciences Research Council. He works on the Sociologies of Youth and Education. He is the author of *Dialogue in Places of Learning: Youth Amplified from South Africa*, a co-editor of the *Oxford Handbook of Global South Youth Studies* and co-author of *Studying While Black: race, education and emancipation in South African universities*. He is also a research associate in the Education Policy Studies department at Stellenbosch University.

**Speakers:**

**Jaqueline Harvey** is a researcher in the Inclusive Economic Development (IED) research division at the HSRC. Her research areas include educational neuroscience and the role of working memory in both reading and academic achievement as well as the role of language in education. Jaqueline holds a MA in Psychology with specialisation in Research Consultation from the University of South Africa (UNISA). She is currently registered at this institution for her doctoral degree which explores the relationships between working memory, academic literacy, and academic achievement in first-year undergraduate Online Distance e-Learning (ODEL) students.

**Zama Mthombeni** is a PhD intern in the Inclusive Economic Development unit at the Human Sciences Research Council (HSRC). She is pursuing her PhD in Development Studies through the University of KwaZulu Natal under the supervision of Professor Oliver Mtapuri. Her PhD research explores the socio-economic implications of fourth industrial revolution technologies on South African citizens. Mthombeni holds a Master's degree the first in Public Policy and the other in Local Economic Development which both were acquired from the University of KwaZulu Natal.

**Sylvia Hannan** is a Senior Researcher in the Inclusive Economic Development (IED) research division at the HSRC. Her research focuses on basic education, predominantly on non-cognitive and contextual aspects, such as attitudes and school climate, in relation to learner achievement. She also focuses on the promotion of science awareness and attitudes towards science among the public, as well as institutional Science, Technology, Engineering and Mathematics (STEM) capacity building, and the promotion of STEM for learners. Sylvia has a Masters (Cum Laude) in Environmental Science from the University of KwaZulu-Natal.

**Session organiser(s):**

Dr Adam Cooper, Inclusive Economic Development, HSRC. [Acooper@hsrc.ac.za](mailto:Acooper@hsrc.ac.za); 0842612750



**Science Forum South Africa 2020**

**“Still igniting conversations about science”**

**9-11 December 2020**

***Description of Parallel Sessions organised by Partners for Online Publication***

Presented by: European Commission’s Joint Research Centre -

|   |
|---|
| Session Title: Using Earth observation and open geoinformation for SDG monitoring and decision making |
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|                                  |                      |
|----------------------------------|----------------------|
| Date: Thursday December 10, 2020 | Time: 11:45 to 13:15 |
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**Session Overview:**

Detailed knowledge about population and infrastructure is crucial also for sustainable development. This was recognized when 193 world leaders agreed upon the 17 Sustainable Development Goals (SDGs) in 2015, and promised to “leave no one behind.” Nevertheless, without reliable and timely population data linked to location, we cannot ensure that everyone is accounted for and that no one will be left behind.

This session will illustrate how open geoinformation can support research and policy with actionable information. This will be demonstrated with two concrete applications from South Africa:

- 1. Applying the Degree of Urbanisation in South Africa.** The Degree of Urbanisation is a new global definition of cities, urban and rural areas. In its 51st session, the United Nations Statistical Commission endorsed the methodology for delineation of cities and urban and rural areas for international and regional statistical comparison purposes. Statistics South Africa has applied the methodology to the latest data available for South Africa using the open tools provided by the European Commission Joint Research Centre. The session will allude to applications of this definition.
- 2. Mapping and monitoring of informal settlements.** Information on the location and condition of informal settlements is key towards addressing service delivery, environmental management and planning of population census. Earth observation and geospatial technologies provide the capabilities to map and monitor the developments of informal settlements. The information derived from these technologies can be used to fast track service delivery during health disasters such as

COVID-19 and other disasters. The session will highlight informal settlement growth in South Africa over 2006, 2011 and 2020 period and demonstrate some of the application of this information in fast tracking service delivery, SDG reporting and census planning.

**Programme:**

1. General introduction to the use of Earth Observation and Geoinformation in support to the SDG monitoring and decision making (JRC)
2. Applying the Degree of Urbanisation in South Africa (StatsSA & JRC)
  - a. Why do we need a harmonized definition of cities, urban and rural areas? How can it be implemented?
  - b. Applying the definition in South Africa
  - c. Application examples relevant in the South African context
3. Mapping and monitoring of informal settlements. Information (SANSA)
  - a. Developing a monitoring service for informal settlements in South Africa
  - b. Illustrating use case of the data sets
4. Discussion and conclusions

**Moderator:**

**Thomas Kemper**, European Commission, Joint Research Centre  
Since January 2017 Thomas Kemper, Ph.D., is leading the GHSL project in the Disaster Risk Management Unit at the European Commission Joint Research Centre. He has a wide experience in remote sensing both with satellite and airborne sensors and uses this for the detection and characterization of settlements in support of EU policies related to civilian crisis management and development, in particular the Sustainable Development Goals.

**Speakers:**

**Session organiser(s):**

Thomas Kemper, European Commission, Joint Research Centre,  
Naledzani Mudau, South African National Space Agency  
Sharthi Laldaprasad, Statistics South Africa  
Point of Contact:  
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## Science Forum South Africa 2020

“Still igniting conversations about science”

**9-11 December 2020**

### *Description of Parallel Sessions organised by Partners for Online Publication*

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|---|
| Session Title: The Presidential Employment Stimulus: Research Opportunities |
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|                                  |                       |
|----------------------------------|-----------------------|
| Date: Thursday December 10, 2020 | Time: 11:45 to 13:15. |
|----------------------------------|-----------------------|

#### **Session Overview**

The Presidential Employment Stimulus was launched in parliament on 15 October as part of government’s Economic Recovery Strategy. It directly funds 800,000 employment opportunities that are being implemented within the current financial year, but it is anticipated that it will also become a medium-term programme. The stimulus includes public employment programmes, job retention programmes and direct support to livelihoods. The single largest programme is run by the Department of Basic Education, which, in the last fortnight, recruited 300,000 young people as school assistants, to assist schools to deal with the setbacks faced as a result of the pandemic. The stimulus supports employment in the environmental sector, over 75,000 subsistence producers are receiving production grants through an input voucher scheme, there is a once-off grant to assist over 100,000 registered and unregistered Early Childhood Development Practitioners back on their feet, as well as a significant stimulus to the creative sector.

The session will set out the elements of the stimulus and their rationale, it will hear about research already taking place that is of relevance, before focusing on the priority research questions and methodologies needed to provide in-depth evaluation of the social, economic, and environmental impacts of the stimulus. The aim is to mobilise the research community to strengthen the evidence base on the strengths and weaknesses of the approaches supported.

#### **Programme**

*(Description of the running order of the session – 90 minutes)*

- I. Welcome Remarks by the Moderator: Busisiwe Ntuli **3 minutes**
- II. Presentation on the Presidential Employment Stimulus by Kate Phillips: **30 minutes**
- III. Reflections and Case studies from the audience- selected cases presented: **20 minutes**

- IV. Question and Answer Session by all: **20 minutes**
- V. Brief input on the ASSAf/DSI Innovation for Inclusive Development Seminars by Stanley Maphosa: **5 minutes**
- VI. Closing Remarks and way forward by Imraan Patel: **10 Minutes**
- VII. Session end by Moderator: Busisiwe Ntuli **2 minutes**

#### Moderator

**Ms Busisiwe Ntuli** is a Director in the Department of Science and Technology responsible for policy, strategy and programming focusing on science, technology and innovation for Local Economic Development. Her work experience spans academia, the non-governmental sector, the private sector as well as the public sector, where she mainly focused on programmes that sought to advance development of economically marginalised spaces through science, technology, and innovation. She received her academic training from the University of Cape Town, the University of the Witwatersrand, University of South Africa and the University of Johannesburg in Public Policy, Development studies and Business Management.

#### Speakers

**Dr Kate Phillips** is currently supporting the Project Management Office (PMO) in the Private Office of the President, in the design and coordination of the Presidential Employment Stimulus. She also supports the Presidential Youth Employment Intervention, focusing on township and rural economic development strategies. She was also part of the team spearheading the proposal for a Special COVID-19 Grant, as part of South Africa's response to the pandemic. Dr Philip is a development strategist, working at the interface between policy and development implementation. She led the design and initial roll-out of the Community Work Programme in South Africa. Through the International Labour Organisation, she supported the Government of Greece in the design and delivery of their public employment programme at the height of the Greek crisis. Dr Philip is author of *Markets on the Margins: Mineworkers, Enterprise Development and Job Creation* (James Currey, London, 2018)

**Imraan Patel** is the Deputy Director-General in the Department of Science and Innovation (DSI) responsible for innovation, inclusive development, sustainability, social and economic development, and public management and governance. At DSI, he drives a portfolio of investments and policies that advance the social and economic development priorities of government through science and technology-based interventions. His focus includes science and technology for sustainable development, R&D-led industrial development, environmental technologies, and the Next Industrial Revolution. Imraan represents the department on the social and economic clusters of government. He is a current member of the board of the Water Research Commission, Trade, and Industrial Policy Strategies (TIPS) and a past board member of MINTeK and SASSCAL.

**Stanley Maphosa** is the International and National Liaison Manager of the Academy of Science of South Africa (ASSAf). He is also the Regional Coordinator of The World Academy of Science (TWAS) sub Saharan Africa Regional Partner (SAREP). Stanley and his team work to establish relations and maintain existing ones at bilateral and multilateral levels worldwide. Stanley leads the South African Chapter of the Organisation for Women in Science for the Developing World (OWSD), the South African Young Academy of Science (SAYAS) and the hosting of the International Science Council Regional Office for Africa. He is completing a PhD in Social Science.

#### Session organiser(s):

Department of Science and Innovation: **Ms Busisiwe Ntuli**: [Busisiwe.Ntuli@dst.gov.za](mailto:Busisiwe.Ntuli@dst.gov.za):  
<https://www.dst.gov.za/>

Academy of Science of South Africa: **Dr Tebogo Mabotha**: [tebogo@assaf.org.za](mailto:tebogo@assaf.org.za)  
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**Science Forum South Africa 2020**

**“Still igniting conversations about science”**

**9-11 December 2020**

***Description of Parallel Sessions organised by Partners for Online Publication***

|   |                             |
|---|-----------------------------|
| <b>Session Title:</b> The impact of continuing professional development (cpd) on the natural science profession   |                             |
| <b>Date:</b> 10 December 2020   | <b>Time:</b> 11:45 to 13:15 |
| <b>Session Overview:</b>  |                             |
| <p>The South African Council of Natural Scientific Professions (SACNASP) is a statutory Council responsible for the registration and regulation of natural scientists in different fields of practices. One of the key strategic objectives of SACNASP is to promote professional development through lifelong learning in the natural science sector through continuing professional development (CPD). The focus of the discussion will be on determining the role that stakeholders can play in supporting natural scientists’ lifelong learning, and the benefits thereof. In this context, the following questions can arise: Can CPD be used as a tool for career progression in face of rapid expansion of scientific and technological knowledge? Will CPD ensure a lifelong career through upskilling, access to knowledge and the ability to adapt to new and novel approaches? Furthermore, can stakeholders use CPD as a vehicle to stay ahead of competitors and improve productivity? The key deliverable of this session is to provide an opportunity for all participants to highlight the role that CPD can play in the interests of scientists, the natural science profession and in the broader context of its contribution to society.</p> |                             |
| <b>Programme:</b>   |                             |
| 1. Welcome (5 minutes)  |                             |

2. Each speaker will be allocated 10 minutes
3. Q&A session (40 minutes)
4. Closing Remarks (5 minutes)

**Moderator:**

Dr Gerda Botha, SACNASP Chairperson

**Speakers:**

1. Dr Tania Marshall, Vice-President (Professional Affairs) of the Geological Society of South Africa (GSSA)
2. Prof Khathutshelo Nephawe, SACNASP Vice-Chairperson and Head of Department: Animal Science, Tshwane University of Technology (TUT)
3. Dr Hlamalani Ngwenya, Lecturer at the Center for Sustainable Agriculture, Extension and Rural Development, University of the Free State (UFS)
4. Mr Desmond Musetsho, SACNASP Council member and Managing Director, Naledzi Environmental Consultants

**Session organiser(s):**

1. Dr Matshidiso Matabane, Information Officer

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**Science Forum South Africa 2020**

**“Still igniting conversations about science”**

**9-11 December 2020**

***Description of Parallel Sessions organised by Partners for Online Publication***

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|---|
| Session Title: The Potential of Indigenous Knowledge-Based Bio-Innovation |
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|                                  |                      |
|----------------------------------|----------------------|
| Date: Thursday December 10, 2020 | Time: 11:45 to 13:15 |
|----------------------------------|----------------------|

**Session Overview:**

The session will focus on the role of Indigenous Knowledge Systems as they relate to legislation, research, development and innovation. These will be predicated upon the need for legislative and regulatory frameworks for production of new knowledge, innovation and socio-economic development. Therefore, the latest legislative issues on IKS will set the foundation, followed by the latest research studies on African Medicines and Covid-19, IK-Based Nutraceuticals and Food Security, Medical Cannabis and Development; and IK-Based Bio-Entrepreneurship. Speakers will use innovation and enterprise development value-chains.

South Africa has been on the forefront of African Medicines for development of Covid-19 therapies. The use of readily available and nutritious indigenous foods is essential for food security. South Africa has a Master-Plan on Cannabis, and its medicinal use in job creation is critical. Inclusive innovation should take into consideration the active participation and involvement of IK Holders and Practitioners. This session will therefore demonstrate the legislative standing of IKS, and its potential in food security, medicines and enterprise development for socio-economic development.

**Programme:**

**11:45 – 11:50** Introduction

**11:50 – 12:10** Prof Yonah Seleti: **Indigenous Knowledge Systems Legislation, IKS Act 19 of 2019**

**12:10 – 12:20** Prof Nceba Gqaleni: **African Medicines Research and Covid-19 Pandemic**

**12:20 – 12:30** Dr Nomusa Dalmini: **Indigenous Knowledge-Based Nutraceuticals (Food and Nutrition)**

**12:30 – 12:40 Prof Motlalepula Matsabisa: Medical Cannabis Research, Development and Innovation**

**12:40 – 12:50 Dr Phuti Chelopo-Mgobozi: Indigenous Knowledge-Based Bio-Entrepreneurship, CoachLab Case Study**

**12:50 – 13:15 Question and Answer**

**Moderator:**

**Dr Aunkh Chabalala**

Aunkh is the current National Director of the Indigenous Knowledge-Based Technology Innovation Unit of the South African Department of Science and Technology. He is a Medical Scientist with special interest in research, development and innovation of African Natural Medicines, Cosmeceuticals, Nutraceuticals, Health Infusions and Technology Transfer, for socio-economic development. He is an Applied Epidemiologist and African Medicine Practitioner with passion in ancient but scientific Afrikan and Afro-Asian Healing Arts

**Speakers:**

**Prof Yonah Seleti**

Prof Seleti is the current Acting Deputy Director General for Research `development Support at the Department of Science and Technology. He is also responsible for the National Indigenous Knowledge Systems Office (NIKSO). The National Indigenous Knowledge Systems Office is responsible for implementing the IKS Act No. 6 of 2019. Before joining the Department of Science and Technology in 2006, Yonah Seleti had worked for the Freedom Park Trust in Pretoria and the university of KwaZulu-Natal as Director of the Campbell Collections. He has also taught as visiting professor at Tulane University in New Orleans and Roskilde University in Denmark. He has been a member of several ministerial committees i.e. on the national curriculum statement and history committee. He was chairperson of the digital Innovation of South Africa, a digital library of liberation heritage.

**Prof Nceba Gqaleni**

Professor Gqaleni the Research Professor of African Traditional/Natural Medicines Programme of the University of KwaZulu-Natal and a Faculty Member of the African Health Research Institute. His aim is to help fast-track the research and development of traditional medicines against Covid-19, HIV and non-communicable diseases. He also leads on policy engagement at the Institute. including Director of the Doris Duke Medical Research Institute, Deputy Dean and Director of the Centre for Occupational and Environmental Health. Nceba is also a member of the WHO (African Regional Office) expert advisory committee on Traditional Medicine for Covid-19, part of the task team drafting SA's Policy of African Traditional Medicine and Project Leader of the KwaZulu-Natal IK-Based Healthy Lifestyle Strategy to fight Covid-19 and beyond. He is also an advisor to the KZN MEC for Health on Traditional Medicine.

**Dr Nomusa Dlamini**

Dr Dlamini is a Principal Research Scientist at CSIR. She has a PhD in Food Science and Technology from Texas A&M University, and in addition, also holds BSc Biochemistry and Biological Sciences and MSc Food Sciences degrees. She has done research in various aspects of agro processing and food science and technology, including food product development, nutritional analysis, processing of indigenous food products, and shelf-life extension of fresh produce. Recently she has been involved on a project on developing nutritious and nutraceutical ingredients from South Africa's indigenous biodiversity. Dr Dlamini

has also been involved in research and collaborative projects with industry, universities and various research institutes in Africa and internationally. Dr Dlamini aims to do research that has positive impact on nutritional intake and food security of communities, and is also passionate about training and developing human capacity in all spheres that will contribute to a better tomorrow.

#### **Prof Motlalepula Matsabisa**

**Prof Matsabisa holds** a PhD in Pharmacology (UCT) and his areas of specialisation are in Pharmacology and Pharmacology of Traditional Medicines, in Drug Discovery and Development, the formulation research of traditional medicinal products to proprietary finished final products. The research entails looking at the safety, efficacy and quality of traditional medicines for select diseases such as diabetes, hypertension, cancer, malaria and neurodegenerative disease such as Alzheimer disease. The research is to inform the public on the potential benefits and risks of use and consumption of traditional medicines and economic potential of Indigenous knowledge Systems (IKS) for health. His research contributes to current government policies and initiatives, and working closely with African Health Products Regulatory Authority (SAHPRA) in medicines regulation. He is the current Chairperson of the Regional Experts Committee of the World Health Organisation (AFRO) – African Union Commission.

#### **Dr Phuti Chelopo-Mgoboza**

Dr Chelopo-Mgobozi is an Innovation Specialist in Biosciences at the Innovation Hub Management Company (TIHMC), where she focuses on strengthening strategic partnerships with the Biosciences stakeholders; proving technical support to BioPark business incubator and AgriPark initiatives. She manages the Gauteng Accelerator Programme (GAP) Innovation Competition (In the Biosciences and Medical category) and a special business skills development programme, CoachLab Bio-entrepreneurship Training, which aims to build strong business acumen to indigenous knowledge holders and scientists alike. Dr Chelopo-Mgobozi holds a PhD in Pharmaceutical Chemistry from the North-West University (NWU), where she was hosted by the Council for Scientific and Industrial Research (CSIR). Dr Chelopo-Mgobozi has a great interest in the Healthcare Innovations and Pharmaceuticals and linkages to Bio-entrepreneurship.

#### **Session organiser(s):**

Dr Aunkh Chabalala  
**Department of Science and Innovation**  
**Indigenous Knowledge-Based Technology Innovation**  
**South Africa**



**Science Forum South Africa 2020**

**“Still igniting conversations about science”**

**9-11 December 2020**

***Description of Parallel Sessions organised by Partners for Online Publication***

Presented by Embassies of France and Italy, High Commission of the United Kingdom -

|   |                      |
|---|----------------------|
| Session Title: Climate change and the 5th anniversary of the Paris Agreement  |                      |
| Date: Thursday December 10, 2020  | Time: 11:45 to 13:15 |
| <p><b>Session Overview:</b></p> <p>There is a real commitment from Europe and South Africa to fight against climate change and to develop a global and decisive strategy. The webinar will in particular focus on the role of science to address the challenge to keep global warming below 2 degrees as it was agreed on in the Paris Agreement in 2015. It will also address the relations between research and political decision making and how science will feed into the “Youth4Climate: Driving Ambition” in Milan and the COP26 in Glasgow.</p> |                      |
| <p><b>Programme:</b></p> <ul style="list-style-type: none"> <li>5’ Opening Remarks by the Moderator</li> <li>10’ South African Panelist</li> <li>10’ Italian Panelist</li> <li>10’ South African Panelist</li> <li>10’ French Panelist</li> <li>10’ UK Panelist</li> <li>30’ Moderated discussion with panelist</li> <li>5’ Closing Remarks</li> </ul>  |                      |
| <b>Moderator:</b>   |                      |
| Speakers:   |                      |
| <b>Session organiser(s):</b>  |                      |

The webinar is organized by the DSI in partnership with Embassies of Finland, France, Germany, Italy, Ireland, Norway, Sweden, Switzerland, UK under the TeamEurope framework

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Science Forum  
SOUTH AFRICA



Science Forum South Africa 2020

“Still igniting conversations about science”

9-11 December 2020

*Description of Parallel Sessions organised by Partners for Online Publication*

Presented by: The World Academy of Sciences

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|--|
| Session Title: "Looking into Africa's future: the 4th Industrial Revolution and the role of ICT education" |
|--|

|                                  |                      |
|----------------------------------|----------------------|
| Date: Thursday December 10, 2020 | Time: 11:45 to 13:15 |
|----------------------------------|----------------------|

**Session Overview:**

The session will discuss how ICT education, in Africa and the developing world in general, must be reassessed and promoted with unprecedented support, while also considering its positive and negative impact. Positive impacts include the provision of digital skills essential to global challenges, such as identifying solutions to economic and health problems. New generations in the developing world will require these skills to monitor dangerous diseases, adapt to changes in the climate, and develop smart energy solutions. Big Data training will be especially indispensable, broadly across many fields of research including education, economic development, health and the environment.

**Programme:**

**Moderator:**

Prof Romain Murenzi

**Speakers:**

Session organiser(s):

TWAS: email: [edoffice@twas.org](mailto:edoffice@twas.org)

MC: 0828805799

Timeslot: 13:45 to 15:15



**Science Forum South Africa 2020**

**“Still igniting conversations about science”**

**9-11 December 2020**

***Description of Parallel Sessions organised by Partners for Online Publication***

Presented by the HRC Consortium

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| Session Title: Conversations with Global Thinkers: Professor Boaventura de Sousa Santos and Professor Sabelo Ndlovu-Gatsheni |
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|                                  |
|----------------------------------|
| Date: Thursday December 10, 2020 |
|----------------------------------|

|                     |
|---------------------|
| Time: 13:45 – 15:15 |
|---------------------|

**Session Overview:**

In this session of the HSRC Radical Reason Conversations with Global Thinkers series, Professor Sabelo Ndlovu-Gatsheni will engage in a conversation with Professor Boaventura de Sousa Santos on the state of knowing, knowledge and knowledge institutions of the Global South.

This series of conversations seek to reflect on the full complexity of the lived experiences and conditions of being in the world now, staged from a place of difference and radicality. In such times – on the horizon of the emergence of a not yet fully determinable world – radical thought, science, ethics, institutional arrangements, and other shared systems of valuation and understanding, are required to give depth and meaning to the full articulation of the questions that we need to be asking now to engender the arrival of a just and equal world to come. No one discipline or system of thought can answer, or fully account for, the questions we are facing as humanity today. We call this, in short, the time for radical reason.

**Programme:**

Professor Boaventura de Sousa Santos will be lead in a 45 minute conversation with Professor Sabelo Ndlovu-Gatsheni. Professor Tshepo Madlingozi will introduce the speakers and moderate the conversation.

**Moderator:**

**Professor Tshepo Madlingozi** is an associate professor and the director of the Centre for Applied Legal Studies at Wits University. He has master's degrees in both law and sociology and he received his PhD from Birkbeck, University of London. He is a research associate at the Chair for Critical Studies in Higher Education at Nelson Mandela University and an Extraordinary Senior Lecturer at the University of Stellenbosch. Madlingozi is the co-editor of the South African Journal on Human Rights and part of the management team of Pretoria University Law Press. He is a co-editor of *Symbol Or Substance: Socio-Economic Rights In South Africa* and *Introduction To Law And Legal Skills In South Africa*. He is also on the boards of amandla.mobi, the Centre for Human Rights, the University of the Free State; Ikalafe Spiritual Healing Institute; Rural Democracy Trust, and the Council for the Advancement of the South African Constitution. For thirteen years, he worked with and for Khulumani Support Group, a 120 000 strong social movement of victims and survivors of apartheid.

**Speakers:****Professor Boaventura de Sousa Santos**

**Professor Boaventura de Sousa Santos** is Professor of Sociology, University of Coimbra (Portugal), and Distinguished Legal Scholar at the University of Wisconsin-Madison. He earned an LL.M and J.S.D. from Yale University and holds the Degree of Doctor of Laws, Honoris Causa, by McGill University. He is Director Emeritus of the Center for Social Studies at the University of Coimbra and has written and published widely on the issues of globalization, sociology of law and the state, epistemology, social movements and the World Social Forum in Portuguese, Spanish, English, Italian, French, German, Chinese, Danish, Romanian and Polish. His most recent books in English include: *The End of the Cognitive Empire: The Coming of Age of Epistemologies of the South*. Durham and London: Duke University Press (2018); *Decolonising the University: The Challenge of Deep Cognitive Justice*. Newcastle upon Tyne: Cambridge Scholars Publishing, 2017; *If God Were a Human Rights Activist*. Stanford University Press, 2015; and *Epistemologies of the South: Justice against Epistemicide*. Paradigm Publishers, 2014.

**Professor Sabelo Ndlovu-Gatsheni** is Professor and Chair of Epistemologies of the Global South with Emphasis on Africa at the University of Bayreuth in Germany. He previously worked as Research Professor and Director of Scholarship in the Department of Leadership and Transformation (DLT) in the Principal and Vice-Chancellor's Office at the University of South Africa (UNISA), South Africa. He was also the 2019 Visiting Professor at the Johannesburg Institute for Advanced Study (JIAS) at the University of Johannesburg (UJ). He is a leading decolonial theorist with over a hundred publications in the fields of African history, African politics, African development and decolonial theory. His latest major publications are *Epistemic Freedom in Africa: Deprovincialization and Decolonization* (Routledge, July 2018); *Rethinking and Unthinking Development: Perspectives on Inequality and Poverty in South Africa*

and Zimbabwe (Berghahn Books, March 2019) coedited with Busani Mpofu; and Decolonization, Development and Knowledge in Africa: Turning Over A New Leaf (Routledge, May 2020).

Session organiser(s):

HSRC Consortium

Rachel Adams – [radams@hsrc.ac.za](mailto:radams@hsrc.ac.za) / 081 474 5700



Science Forum  
SOUTH AFRICA



**Science Forum South Africa 2020**

**“Still igniting conversations about science”**

**9-11 December 2020**

***Description of Parallel Sessions organised by Partners for Online Publication***

**Session Title: The Protection of Personal Information Act No 4 of 2013: A Code of Conduct for Research**

Date: Thursday December 10, 2020

Time: 13:45 to 15:15

**Session Overview:**

In South Africa (SA) the use of personal information for research is regulated by the National Health Act No 61 of 2003 and its 2012 regulations, the Department of Health Ethics in Health Research: Principles, Processes and Structures Guidelines and the Promotion of Access to Information Act (PAIA) No 2 of 2000. This changes with the coming into force of the Protection of Personal Information Act (POPIA) No 4 of 2013 on 1 July 2020 [ <https://www.justice.gov.za/infoereg/docs/InfoRegSA-POPIA-act2013-004.pdf>]. All public and private bodies that are processing personal information have until 1 July 2021 to ensure that they are compliant with the law.

To guide the application of POPIA to research, the Academy of Sciences of South Africa (ASSAf) considers it essential to develop a POPIA Code of Conduct for Research. This will ensure certainty, transparency and clarity in the use of personal information for research. ASSAf also considers that it is imperative that there is one Code to guide the use of personal information for research in all sectors (including health, social science, genomics, etc.).

ASSAf hosted a virtual forum meeting on 21st October 2020, which was attended by over 290 participants. The aim of the meeting was to consider the development of a POPIA Code of Conduct for Research. It was proposed at this meeting that ASSAf facilitate the development of the Code by engaging a wide spectrum of stakeholders including researchers, ethicists and legally trained people to ensure inclusivity with multiple stakeholders prior to the submission of the Code to the Information Regulator for approval.

**Programme:**

13:45 - 13:50 – Welcome

13:50 – 14:22 - The POPI Act (POPIA): The need for a single Code of Conduct for Research and discussion of key issues to be addressed in the Code - Extract and playback of video from the POPIA Forum Meeting held on 21 October 2020  
14:22 – 15:02 Discussion  
15:02 – 15:12 Summary by Dr Rachel Adams (Senior Research Specialist of the Impact Centre at HSRC)  
15:12 – 15:15 Way Forward by Prof Michèle Ramsay  
15:15 Closure

**Moderator:**

**Prof Michele Ramsay**

Michele Ramsay is a Professor in the Division of Human Genetics at the National Health Laboratory Service and University of the Witwatersrand (Wits) in Johannesburg. Her research interests include the genetic basis and molecular epidemiology of single gene disorders in South African populations and the role of genetic and epigenetic variation in the molecular aetiology of fetal alcohol spectrum disorders (FASD) and other diseases exacerbated by adverse lifestyle choices. The FASD research includes the use of a mouse model to investigate alcohol induced epigenetic remodelling as a mechanism of teratogenesis.

**Speakers:**

**Dr Rachel Adams**

Rachel Adams is a Senior Research Specialist of the Impact Centre at the Human Sciences Research Council. Dr Adams holds degrees in English Literature and Philosophy (BA, Royal Holloway, University of London), Human Rights Law (MPhil, UCT) and Jurisprudence (PhD, UCT). Dr Adams previously held the position of Senior Researcher Civil and Political Rights at the South African Human Rights Commission and completed post-doctoral studies at the Information Law and Policy Centre, Institute for Advanced Legal Studies, University of London. Her work sits at the intersection of law, ethics, gender and technology. Dr Adams is an Editor for the South African Journal on Human Rights.

**Prof Collet Dandara**

Collet Dandara is a Professor of Human Genetics, Principal Investigator of the Pharmacogenomics and Drug Metabolism Research Group at the University of Cape Town. From the early days of his career, Professor Dandara's research and publications focused on foundational studies in pharmacogenetics, and later pharmacogenomics, characterising genomes of African populations to identify genomic clues on differential drug responses observed in patients. His work has laid a firm basis on understanding the profile of genetic variants of pharmacogenomics importance in African populations, leading to novel discoveries as well as providing mechanistic understanding of the functional significance of such genetic variants and the networks they are involved in.

**Dr Harriet Etheredge**

Harriet Etheredge is a medical bioethicist and health communication specialist, with a particular interest in ethical and communicative challenges across highly specialised medical settings. Harriet is a Co-Chair of the Wits Human Research Ethics Committee (Medical) and at national level she is a member of the South African Medical Research Council HREC(M). Harriet advises on research protocol, ethics submission, research compliance and research regulation. Harriet holds an honorary position in the Department of Internal Medicine, School of Clinical Medicine, at Wits University. Before joining WDGMC, Harriet undertook her doctoral studies in the field of medical ethics and organ transplantation. Harriet is a widely published academic author and has presented her work at both local and international fora. Harriet regularly presents CPD and CME ethics talks for health professionals and industry. Harriet was named as one of the Mail and Guardian's 200 Young South Africans in 2016.

**Dr Antonel Olckers**

Antonel Olckers founded DNAbiotec® in 2001 and has served as its CEO since then. Her expertise in science, innovation and business is integrated in DNAbiotec®. Over the past decade she has transformed DNAbiotec® into a sustainable knowledge-based core biotech company. Dr Olckers obtained her PhD in molecular human genetics from the University of Pretoria (South Africa) with research performed at the Johns Hopkins Medical Institutions in Baltimore MD, USA. During her time at Johns Hopkins she maximised the opportunity to learn from the best in the field of human genetics how science is practised at the global level. After graduation she became the head of the Molecular Biology Group in the Department of Human Genetics (University of Pretoria), and subsequently was head of department, or Director as it was termed, of the Centre for Genome Research (CGR) at the North-West University (NWU).

**Prof Tobias Schonwetter**

Tobias Schonwetter is an Associate Professor and the Director of the Intellectual Property Unit at the University of Cape Town's law faculty. He teaches IP and IT law. He currently leads several developments and innovation-oriented research and capacity building projects, including the Open African Innovation Research (Open AIR) project, ([www.openair.africa](http://www.openair.africa)). He regularly advises various government and non-governmental entities on issues relating to IP and, in particular, copyright and open access. In 2018, Tobias became an Associate Member of the Centre of Law, Technology and Society at the University of Ottawa, Canada; and in 2019 he joined the Department of Science and Innovation's Open Science Advisory Board.

**Session organiser(s):**

Mrs Susan Veldsman  
Director of Scholarly Publishing Programme  
Academy of Science of South Africa (ASSAf)  
[Susan@assaf.org.za](mailto:Susan@assaf.org.za)



# Science Forum SOUTH AFRICA



Science Forum South Africa 2020

“Still igniting conversations about science”

9-11 December 2020

***Description of Parallel Sessions organised by Partners for Online Publication***

Session Title: **‘BEING ALHIV’ WHAT DO WE KNOW ABOUT ADOLESCENTS LIVING WITH HIV IN SOUTH AFRICA? A Youth Dialogue**

Date: Thursday December 10, 2020

Time: 13:45 to 15:15

**Session Overview:**

This dialogue will be hosted by the HSRC in collaboration with the University of Cape Town’s AIDS and Society Research Unit, UNFPA, SANAC. As we approach the fourth decade of the HIV pandemic, there are still glaring gaps in the evidence-base regarding the mode of transmission, health, behaviours, sexual practices and lived experiences of adolescents living with HIV (ALHIV) in South Africa.

The HSRC and the UCT’s AIDS and Society Research Unit implemented a project to further understand the context and lived experiences of adolescents aged 10-19 years living with HIV in South Africa. The project was also aimed at informing the SAMRC’s Social Impact Bond (SIB) initiative that focuses on HIV interventions to support adolescent girls and young women (AGYW) in South Africa. The project is funded by DSI through a grant held by the SAMRC and the dissemination activities are funded by UNFPA.

In this dialogue we will unpack the results and engage with youth on what needs to be done to reach and improve the lives of ALHIV.

**Programme:**

**Welcome and opening remarks: 15 minutes**

Moderators: Koketso Rathumbu -National AGYW Ambassador SANAC & Lerato Morulane - UNFPA Youth Advisory Panel member

**Presentation of the main study findings: Being ALHIV: What do we know about adolescents living with HIV (20 min)**

Presenters: Dr Inba Naidoo – Senior Research Specialist, Human Sciences Research Council & Dr Rebecca Hodes - Director, AIDS and Society Research Unit, Centre for Social Science Research University of Cape Town.

**Speaker - Bubbly Winnie - My story (20 min)**

**Facilitated Discussion: K. Rathumbu & L. Morulane (30 min)**

*Questions to be explored:*

1. How can adolescents living with HIV be supported to navigate sexual relationships and disclosure of their status to their partner (what does positive prevention mean)?
2. What support do young people living with HIV have or need to better manage their HIV status (emotional well-being, relations with friends and peers, coping with schoolwork and social life generally)?
3. What are your thoughts around the current antiretroviral therapy available to you in relation to your lifestyle as a young person (side effects, treatment fatigue, regular clinic visits)
4. If you were asked to design an adolescent youth friendly service (AYFS) what would it look like for ALHIV (does it exist?)
5. Do you believe that ALHIV (especially ALHIV from LGBTI communities, those with disabilities, adolescent mothers living with HIV, key populations) are adequately included in the country's HIV agenda?

**Summary of proceedings: Dr Nompumelelo Zungu (10 min)**

**Thank you and closing Remarks: K Rathumbu & L Morulane (5 min)**

**Moderator:**

**Koketso Rathumbu** is a 24-year-old, BA Corporate Strategic Communications graduate from the University of Johannesburg. Former secretary of the SANAC Civil Society She Conquers executive committee. She advocates for adolescent girls and young women as well as members of the LGBTIQ+ community. She is the founder of an LGBTI+ centered NGO called the LGBTI Leadership and Development Programme which has partnered with the Gauteng LGBTI sector, Nando's and the Constitution hill in 2017. She current AGYW National Ambassador at the South African National Aids Council (SANAC).

**Lerato Morulane** is a 23 year old, Youth Development Advocate from Pretoria, South Africa. Her Advocacy focus in the Youth Development Context are in the Areas of SRHR, HIV prevention, Substance abuse prevention, LGBTI Rights and Youth participation within the Sustainable Development Goal, African Unions Agenda 2063 and United Nations Secretary General's Global Strategy on Women, Children and Adolescent health 2015-2030.

**Speakers:.**

**Dr Naidoo** is senior research specialist the Human Science research Council (HSRC). She holds a Ph.D. in Hygiene and Tropical Medicine from the University of London. Her general research interests are public health and epidemiology. His research includes spatial and temporal applications in disease mapping, systematic reviews and integrated bio-behavioural surveys. She has a special interest in the health and well-being of women and children.

Dr Hodes's hold a D. Phil from Oxford University and is a Director at the AIDS and Society Research Unit, Centre for Social Science Research -University of Cape Town. Current interests are on science, race and sex in South Africa. Her most recent research focuses on sexualities education, pictograms for public health, and risk and resilience among HIV-positive adolescent parents.

**Session organiser(s):**

Dr. Mpumi Zungu [mzungu@hsrc.ac.za](mailto:mzungu@hsrc.ac.za) and Ms. Bridgette Prince [bprince@hsrc.ac.za](mailto:bprince@hsrc.ac.za)



**Science Forum South Africa 2020**

**“Still igniting conversations about science”**

**9-11 December 2020**

***Description of Parallel Sessions organised by Partners for Online Publication***

Presented by: European Commission’s Joint Research Centre

Session Title: Sharing EU best practices in healthcare and nutrition

1. European Guidelines and Quality Assurance for Cancer Screening, Diagnosis and Care
2. Front-Of-Pack (FOP) Nutrition Labelling

|                                  |                      |
|----------------------------------|----------------------|
| Date: Thursday December 10, 2020 | Time: 13:45 to 15:15 |
|----------------------------------|----------------------|

**Session Overview:**

1. European Guidelines and Quality Assurance for Cancer Screening, Diagnosis and Care  
 This sub-session will present the European Commission Initiative on Breast Cancer (ECIBC), which provides essential levels of quality care that are equally accessible across Europe. Based on the latest scientific evidence available, ECIBC seeks to offer to healthcare providers and women clear and independent guidance on screening and care. ECIBC provides a Quality Assurance scheme to facilitate implementation in countries and although ECIBC will be launched in early 2021, already more than 13 countries are implementing the recommendations.  
 Can this EU Best Practice be of interest for South Africa?

2. Reducing the exposure of children and adolescents to the marketing of unhealthy food and beverages  
 This sub-session will present the JRC marketing toolkit that aims to help countries build more comprehensive food and beverage marketing codes. Public health policy makers have identified the restriction of marketing of foods, non-alcoholic, and/or alcoholic beverages that promote unhealthy diets and practices to children and adolescents as an area of urgent action. This is backed by international reference organisations such as UNICEF and the WHO. The JRC toolkit addresses what a marketing code should cover from a public health perspective; identifies challenges to achieving comprehensiveness; and provides insights to reported challenges related to digital marketing. It comprises a checklist of the main aspects that a marketing code should include and offers practical guidance for each of the aspects incorporated in the checklist.

**Programme:**

1. Sub session on European Guidelines and Quality Assurance for Cancer Screening, Diagnosis and Care
  - a) Two 10 min presentations focusing respectively on Guidelines and Quality Assurance
  - b) Q&A session
  - c) Conclusions
  
2. Sub session on Reducing the exposure of children and adolescents to the marketing of unhealthy food and beverages
  - a) Presentation overview (20 min)
  - b) Q&A session
  - c) Conclusions

**Moderators:**

1. Sub session on European Guidelines and Quality Assurance for Cancer Screening, Diagnosis and Care

Ciarán NICHOLL

Ciarán obtained his PhD in cancer research at Heidelberg University (DE), an MSc degree at Kingston University and Kings College Hospital (UK) and a BSc degree in Chemistry at Galway University (IE). Since 2013, Ciarán is head of the Health in Society unit in the European Commission's Joint Research Unit, working on:

1. The [European Commission's Initiative on Breast Cancer](#)
2. The [European Cancer Information System](#)
3. The [EU Platform for Rare Diseases Registration](#)
4. The [Health Promotion and Disease Prevention Knowledge Gateway](#)

2. Sub session on Reducing the exposure of children and adolescents to the marketing of unhealthy food and beverages  
Sandra CALDEIRA

Sandra joined the European Commission in 2010 and has been working in science for policy in the area of Public Health ever since. She is Deputy Head of the Health in Society Unit at the Joint Research Centre. Sandra holds degrees in Microbiology and in Biotechnology as well as a PhD in Biomedical Sciences. At the SFSA Conference, Sandra will moderate a discussion on the exposure of children and adolescents to marketing of food and beverages, one of her (many!) favorite topics.

**Speakers:**

1. Sub session on European Guidelines and Quality Assurance for Cancer Screening, Diagnosis and Care

Elena PARMELLI

Elena graduated in Biology at the University of Modena and Reggio Emilia and specialised in Biostatistics at the University of Milan. She has a PhD degree in Clinical and Experimental Medicine (Public Health curriculum).

She has more than fifteen years of experience in the field of systematic reviews and clinical guidelines methodology and side processes like quality assessment of primary studies and dissemination of research findings.

Since 2017, Elena is at the Health in Society unit in the European Commission's Joint Research Centre working on the European Commission Initiative on Breast and Colorectal Cancer (ECIBC and ECICC).

Luciana NEAMTIU

Luciana graduated in Mathematics and Physics and obtained a PhD in Mathematics focusing on mathematics and computer science applied to medicine. She has worked for fifteen years in the area of cancer registries and screening databases and collaborated in setting-up the population based cancer screening programme and regional cancer registry in Romania. Now, she is a member of the Health in Society Unit at Joint Research Centre's European Commission and works for the European Cancer Information System (ECIS), the European Commission Initiative on Breast Cancer (ECIBC) and the European Commission Initiative on Colorectal Cancer (ECICC).

1. Sub session on Reducing the exposure of children and adolescents to the marketing of unhealthy food and beverages

Evangelia GRAMMATIKAKI

Evangelia (Eva) is a public health nutritionist. She is currently working at the European Commission's Joint Research Centre on Health Promotion issues. She has, among others, worked on topics like baby food, food marketing and food reformulation. Prior to joining the European Commission in 2016, Eva was a Researcher at Harokopio University (Greece), a Scientific & EC Project Manager at ILSI Europe (Belgium) and a Nutrition Specialist on obesity and non-communicable disease at UNICEF New York Headquarters (USA).

Ana SARASA RENEDO

Ana is an epidemiologist and a specialist in Public Health. Before joining the Health Promotion team at the European Commission's Joint Research Centre, she developed her research at the Spanish National Epidemiology Centre, at the Public Health Agency of Barcelona, at the Greek Foundation for Research and Technology and at the University of Bern. She has worked as an epidemiologist in the field of substance use and the health consequences derived thereof, and at the JRC on alcohol-related harm.

Xikombiso MBHENYANE

Xikombiso is Professor and Head of Division Human Nutrition at the Faculty of Medicine and Health Sciences, Stellenbosch University. She is a Dietitian, and Research Chair in Food Environments, Nutrition and Health in the Division Human Nutrition at the Faculty of Medicine and Health Sciences, Stellenbosch University. She is a C3 NRF rated scientist in South Africa and her research areas of interest are indigenous foods, nutrition and prevention of non communicable diseases; food and nutrition security; child and maternal nutrition.

**Session organiser(s):**

FOR BOTH SUB-SESSIONS:

Institution: European Commission's Joint Research Centre. Health in Society Unit

Contact: Cristina at [JRC-F1-Secretariat@ec.europa.eu](mailto:JRC-F1-Secretariat@ec.europa.eu)



**Science Forum South Africa 2020**

**“Still igniting conversations about science”**

**9-11 December 2020**

***Description of Parallel Sessions organised by Partners for Online Publication***

Presented by: Africa – Europe Innovation Partnership

Session Title: Sustainable Business Modelling for Cleantech

|                                  |                      |
|----------------------------------|----------------------|
| Date: Thursday December 10, 2020 | Time: 13:45 to 15:15 |
|----------------------------------|----------------------|

**Session Overview:**

The objective of the session is to enhance the knowledge of participants on how to apply sustainable business model design patterns to an innovation challenge or a new business idea in the field of cleantech. Amongst others, experts from UX Berlin will cover the following issues:

- How to capitalise on the green and social values that motivate and guide green start-ups in delivering sustainable innovations?
- How to support the process of growing a business idea to convert it into a profitable and sustainability-oriented business models innovation in cleantech?
- How to improve the sustainability profile of an existing business idea?

**Programme:**

|         |  |
|---------|--|
| 5 mins  | Welcome – AEIP team  |
| 5 mins  | Introduction and webinar set-up – Ms. Imke de Kock                             |
| 70 mins | Interactive modelling session – Mr. Henning Breuer & Mr. Florian Lüdeke-Freund |
| 10 mins | Q&A – Ms. Imke de Kock   |

**Moderator:**

**Ms. Imke de Kock**

**Imke de Kock** (Ph.D.) is a professionally registered Industrial Engineer with international industry experience in the execution and management of engineering projects in South Africa, Europe, United Kingdom and South America. She joined [Stellenbosch University](#) (South Africa) in the year 2015 as lecturer at the Department of Industrial Engineering. Imke also serves as part-time faculty at the University of Stellenbosch's Business School (USB) where she teaches on the MBA programme. Imke forms part of the Engineering Management and [Sustainable Systems research group](#), co-leads the Health Systems Engineering and Innovation Hub, and teaches a number of engineering modules. Her research focuses on contributing towards the field of technology management and sustainable futures. Her doctoral thesis focused on the development of a novel framework for the management of green technology as an enabler of sustainability transitions.

#### **Speakers:**

##### **Mr. Henning Breuer**

**Henning Breuer** (Ph.D.) is founder of [UXBerlin](#) – Innovation Consulting and professor of business psychology at the University of Applied Sciences for Media, Communication and Management in Berlin, Germany. His consulting work for clients such as General Motors, PSA Groupe, Dropbox or Lufthansa Systems focuses on ethnographic field research, new business models and innovation strategy. For Deutsche Telekom set up a project field for User Driven Innovation as research and innovation director. As a visiting professor and researcher we worked at [Waseda University Tokyo](#), the University of Chile and the University for Applied Sciences Potsdam.

##### **Mr. Florian Lüdeke-Freund**

**Florian Lüdeke-Freund** (Ph.D.) is Professor for Corporate Sustainability at [ESCP Business School](#), Berlin, Germany, where he holds the [Chair for Corporate Sustainability](#). He is a Research Fellow at ESCP's SustBusy Research Center and Leuphana University's Centre for Sustainability Management (CSM). He also was a Research Fellow at the Governing Responsible Business Research Environment at Copenhagen Business School (CBS), Denmark. Prior to joining ESCP Business School, he was a Postdoctoral Researcher at the University of Hamburg and earned a PhD in social sciences and economics from Leuphana University.

#### **Session organiser(s):**

Africa-Europe Innovation Partnership  
<https://africaeurope-innovationpartnership.net/>  
[eu-africa@servicefacility.eu](mailto:eu-africa@servicefacility.eu)



**Science Forum South Africa 2020**

**“Still igniting conversations about science”**

**9-11 December 2020**

***Description of Parallel Sessions organised by Partners for Online Publication***

Presented by: Team Norway–South Africa

|   |
|---|
| <b>Session Title:</b> International Cooperation for Sustainable Development: A South Africa – Norway case |
|---|

|   |                             |
|---|-----------------------------|
| <b>Date:</b> Thursday December 10, 2020 | <b>Time:</b> 13:45 to 15:15 |
|---|-----------------------------|

**Session Overview:**

South Africa and Norway have a long history of cooperation in higher education and research and innovation. Through both bilateral and multilateral programmes, South African and Norwegian researchers and students have joined forces to explore themes of common interest. They currently include [SANOCEAN](#), [Horizon2020](#), [Erasmus+](#), [INTPART](#), [UTFORSK](#) and [NORPART](#).

One example is minerals and metal production where both countries have strong industries. Norway has developed renewable energy as a basis for metal production, which is globally recognized to be in the technological forefront. South African soil holds huge reserves of metals and minerals, and the metal producing industry has a huge socio-economic impact by providing employment for many people. This industry is knowledge-intensive, and its continued viability is assured by the long-standing SA-NO partnership between universities and research councils in the two countries. This joint research and educational project aims to maximize job creation in both countries, with a special attention to include historically disadvantaged South Africans while focusing on technology transfer for sustainable development and innovative technologies for reducing both energy consumption and the environmental footprint. It aims to have an impact on many of the UN Sustainable Development Goals, particularly SDGs 7, 8, 9, 10, 12 and 13.

Currently, smelters in South Africa are producing large quantities of ferrochromium and ferromanganese for global markets, while Norwegian companies are installing and operating solar panels across Africa. Furthermore, the natural resources in South Africa also presents new opportunities as vital ingredients in the new generation of environmentally friendly batteries – which are essential for the transition from fossil to renewable energy. In addition to scientific research, exploiting these opportunities also requires fostering entrepreneurial mindsets and capabilities – which is the focus of another SA-NO partnership between South African and Norwegian institutions This project

involves mutual exchanges of student interns in local industries to increase their entrepreneurial mindset.

**Programme:**

1. Opening statement by Ambassador Astrid Helle and representative of the Ministry of Research and Higher Education in Norway (10 minutes)
2. Introductory statements by panellists (40 minutes)
3. Panel discussion (10 minutes)
4. Questions from public sent through chat and answers from panellists (20 minutes)
5. Wrap-up and way forward (10 minutes)

**Moderator:**

Mrs **Natalie Becker-Aakervik** is a South African award-winning radio and television presenter living in Norway where she runs the storytelling and production company Thought Leader Global and the online space Intro.Africa with her husband Mikkel. As a speaker and Master of Ceremonies, Mrs Becker-Aakervik moderated a wide range of corporate, philanthropic and diplomatic events, among them the UNDP 50th anniversary Ministerial Meeting, the Nordic-African Business Summit and the EAT Foundation's Newscast. She has hosted and produced radio shows and hosted television shows on all major South African channels, including SABC and 'It's Africa's Time' for CNBC Africa.  
<http://thoughtleader.global/our-journey/>. <https://intro.africa/>

**Speakers:**

HE Ms **Astrid Emilie Helle** is Norway's Ambassador to South Africa, Botswana, Lesotho, Namibia, Zimbabwe, and Madagascar, as well as SADC. Her career includes postings in Tunisia, Morocco, Switzerland and France. She was previously Ambassador and Permanent Representative of Norway to the Council of Europe in Strasbourg (2013-2017), Deputy Director General for UN, Peace and Humanitarian Affairs in the Ministry of Foreign Affairs (2009-2013) and Minister Counsellor at the Permanent Mission of Norway to the UN in Geneva (2003-2007). <https://www.norway.no/en/south-africa/>

Prof **Merete Tangstad** took her MSc and PhD at NTNU (Norwegian University of Science and Technology) and has since 2004 been a professor at the same university. Previously she worked at Elkem and Eramet mainly focusing on Mn-ferroalloy production. Her main areas are silicon and ferroalloy production in Submerged Arc Furnaces ranging from raw materials, furnace operation and tapping. She has been co-authoring a number of books including Production of manganese ferroalloys (2007). Tangstad is managing two INTPART projects on Thermodynamics and Metal production together with NWU and MINTEK.  
<https://www.ntnu.edu/metpro/cr-met-metal-production>

Dr **Xolisa Camagu Goso** completed an MTech degree in chemistry at the University of Johannesburg (UJ) and a PhD with the department of chemical engineering at the University of Cape Town (UCT). He has been with Mintek for 13 years, and currently works as a principal scientist in the Pyrometallurgy Division (PDD). Xolisa is the direct supervisor of the high temperature laboratory staff and is responsible for the laboratory equipment. His research interests include thermochemistry of materials, reaction kinetics and mechanisms in pre-treatment processes (gas-solid reactions), smelting and refining, and the general extractive metallurgy of aluminium, vanadium and titanium.  
<https://www.mintek.co.za/>

Dr **Bjørn Willy Aamo** works as a Professor in entrepreneurship at Nord University Business School. His interest is entrepreneurship, from corporate entrepreneurship to entrepreneurship education. He

educational background includes computer engineering, business administration and pedagogy. He has worked as high school teacher, as a IT-consultant, as controller and now as researcher and university teacher. His research projects are mostly internationally oriented and seek to develop entrepreneurship education capacity in countries such as Sri Lanka, Russia, East Timor and South Africa. He leads an INTPART together with partners in Norway and South Africa.

<https://www.nord.no/en/about/faculties-and-centres/business-school/Pages/default.aspx>

Dr **Lars Lindstad** is M&S director at Elkem Carbon in Norway. He received his PhD in *Recrystallization of SiC* at Norwegian University of Science and Technology (NTNU, 2002). Employed in Elkem since 1997 in positions as process metallurgist, production manager, development manager and raw material manager. Has worked on four Elkem sites in Norway and Iceland with development, production and sales of Silicon, Ferrosilicon, 99% Microsilica, Carbon materials as Søderberg, lining paste and plugging paste for furnaces.

<https://www.elkem.com/carbon/>

Ms **Paleesha Naidoo** is sustainability analyst for a multinational petrochemical company and is mainly involved in the field of benchmarking. Currently in possession of an Industrial engineering degree, she is in the process of completing her master's in Technology and Innovation Management. During her time as an exchange student in Norway, Paleesha worked for an industrial cluster facilitator, GCE Ocean Technology, where her focus was on entrepreneurship, innovation and building networks for the purpose of enhancing collaboration between Norway and South Africa.

<https://www.gceocean.no/news/posts/2020/august/collaboration-at-the-center/>

#### Session organisers:

##### Team Norway South Africa

- Royal Embassy of Norway, att: Sofia Micael Tesfaghiorghis [Sofia.Micael.Tesfaghiorghis@mfa.no](mailto:Sofia.Micael.Tesfaghiorghis@mfa.no)
- Norwegian Agency for International Cooperation and Quality Enhancement in Higher Education - Diku, att Laila Linde Lossius [laila.lossius@diku.no](mailto:laila.lossius@diku.no)
- Research Council of Norway – RCN, att: Jan Monteverde Haakonsen [jha@rcn.no](mailto:jha@rcn.no)



**Science Forum South Africa 2020**

**“Still igniting conversations about science”**

**9-11 December 2020**

***Description of Parallel Sessions organised by Partners for Online Publication***

***Presented by:*** Embassies of France and Sweden

|   |                      |
|---|----------------------|
| Session Title: Open Science: Future of Science, Science of the Future   |                      |
| Date: Thursday December 10, 2020  | Time: 13:45 to 15:15 |
| <p><b>Session Overview:</b></p> <p>Open science is a major topic for Europe and South Africa. Open science implies a systemic change to the way science is organised and research is carried out. It encourages cooperative work and new ways of diffusing and sharing knowledge using digital technologies and new collaborative tools. It affects all stages and types of scientific research: conceptual work, publishing, empirical research, data-analysis...</p> <p>The webinar will be an opportunity to share experiences in South Africa and in participating European countries regarding:</p> <ul style="list-style-type: none"> <li>• To highlight the importance and the impact of open science</li> <li>• Open Science Agenda &amp; its key areas</li> <li>• Showcase expertise and tools</li> </ul> <p>The webinar event is open to all involved stakeholders both from South Africa and participating European Countries.</p> |                      |
| <p><b>Programme:</b></p> <p>5' Opening Remarks by the Moderator<br/> 15' South African Panelist<br/> 15' French Panelist<br/> 15' South African Panelist<br/> 15' Swedish Panelist<br/> 20' Moderated discussion with panelist<br/> 5' Closing Remarks</p>  |                      |
| <b>Moderator:</b>   |                      |
| <b>Speakers:</b>  |                      |

Session organiser(s):

The webinar is organized by the DSI in partnership with Embassies of Finland, France, Germany, Italy, Ireland, Norway, Sweden, Switzerland, UK under the TeamEurope framework

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Science Forum  
SOUTH AFRICA



**Science Forum South Africa 2020**

**“Still igniting conversations about science”**

**9-11 December 2020**

***Description of Parallel Sessions organised by Partners for Online Publication***

|  |                      |
|--|----------------------|
| Session Title: The Policy & Practice of Drug, Alcohol & Tobacco use during COVID-19  |                      |
| Date: Thursday 10th December 2020  | Time: 13:45 to 15:15 |
| <p><b>Session Overview:</b></p> <p>This session brings together leading medical, policy and civil society experts to examine the late Kofi Annan’s statement that <i>“drugs have harmed many people, but bad government policies have harmed many more”</i>. Its focus is on weighing-up the ethics of intervening in the lives of addicted and non-addicted users of licit and illicit drugs. The public health logic behind, and repercussions of, policies will be scrutinised. The pandemic has brought into sharp focus how societies worldwide both professes intolerance for the use of ‘drugs’, while providing and even cherishing the social settings that enable and make legitimate their use. Taxation, jobs, sectoral interests, culture and civil liberties all come into play. This international panel will weigh-up how law-makers must navigate between the rights and responsibilities of individuals to look after themselves and the rights and responsibilities of States to look after their citizens, provide security and a milieu in which to live a satisfying life. A key assessment will be to evaluate if robust ethical advice has been adequately considered to counter-balance public health imperatives. Have fundamental principles of autonomy, human dignity, freedom, equality and solidarity been forced to give way? Are we individuals anymore or does the end justify the means in combatting Covid-19? Further issues will be debated such as concepts of democracy and the rule of law, the influence of religious views on intoxicants and the pressing need for harm reduction science to be universally applied. The panel’s collective aim is to boost understanding of how the nexus of scientific and decision-making power operates during a time of crisis. Recommendations will be given about what can be done better to get the intervention balance right. Speakers will also question why the voice of African scientists is not nearly heard enough by policy-makers inside Africa, as in most places in the world.</p> |                      |
| <b>Programme:</b>  |                      |
| <b>Moderator, Prof. Himla Soodyall (SA):</b> CEO, South Africa Academy of Science.   |                      |

**Speakers:**

**Speaker & Co-organiser**, Shaun Shelly (SA): Policy, Advocacy & Human Rights Manager, TBIHIVCARE.

**Speaker**, Prof. Solly Ratamaene (SA): Head of Dept. of Psychiatry (2003 – 2019), Sefako Makgatho Health Science University (SMU), Private Practitioner on Addictions Therapies.

**Speaker**, Prof. François Venter (SA): University of Witwatersrand, Divisional Director, Ezintsha.

**Speaker**, Prof. Julian Kinderlerer (SA): Member & Immediate Past President of the European Group on Ethics in Science & New Technologies (EGE) reporting to the European Commission & Parliament; Emeritus Professor of Intellectual Property Law, UCT and visiting Professor, UKZN.

**Speaker**, David Budtz Pedersen (DK): Professor of Science Communication and Director of the Humanomics Research Centre at Aalborg University Copenhagen.

**Session Organiser:**

Aidan Gilligan (IRL): CEO, SciCom – Making Sense of Science.



Timeslot: 15:30 to 17:00



**Science Forum South Africa 2020**

**“Still igniting conversations about science”**

**9-11 December 2020**

***Description of Parallel Sessions organised by Partners for Online Publication***

Session Title: African Histories and Philosophies of Artificial Intelligence (with the Leverhulme Centre for the Future of Intelligence, University of Cambridge)

Date: Thursday December 10, 2020

Time: 15:30 to 17:30

**Session Overview:**

Artificial intelligence is set to have an unprecedented global impact – and public perceptions will shape much of it, affecting how the technology is developed, adopted and regulated. But different cultures see AI through very different lenses: diverse scientific, economic, artistic, religious, linguistic, philosophical, literary, and cinematic traditions have led to diverging conceptions of what intelligent machines can and should be.

Many of these worldviews are currently not given the attention they deserve, both within cultures and between them. The Leverhulme Centre for the Future of Intelligence (CFI) at the University of Cambridge therefore launched the Global AI Narratives Project to understand and analyse how different cultures and regions perceive the risks and benefits of AI, and the influences that are shaping those perceptions.

In collaboration with the Human Sciences Research Council (HSRC) of South Africa, CFI will hold a series of three online workshop to explore portrayals and perceptions of AI and robotics in Sub-Saharan Africa and its African contexts. This is the first of these workshops, and will engage in the histories and philosophies of AI in Africa.

**Programme:**

Chair: Dr Rachel Adams (HSRC)

15.30 – 15.35: Chair opens and introduces

15:35 – 15.45: Opening remarks from Dr Stephen Cave and Dr Kanta Dihal

15:45 – 16:00: "Automating Error: The politics of machine learning and information infrastructures on the African continent" Professor Keith Breckenridge

16:00 – 16:15: “African Perspectives on AI: intrigues, Challenges and Prospects” Dr. Ejikemeuwa Ndubisi  
16:15 – 16:30: "Critically Engaging the Ethics of AI for an African Audience" Dr Samuel Segun  
16:30 – 16:45: Discussant remarks from Professor Jane Taylor  
16:45 – 17:30: Open discussion and Q and A

**Moderator:**

**Dr Rachel Adams**

Dr Rachel Adams is a Senior Research Specialist at the Human Sciences Research Council, South Africa. Dr Adams has degrees in Jurisprudence (PhD, University of Cape Town), International Human Rights Law (MPhil, University of Cape Town) and English Literature and Philosophy (BA, Royal Holloway, University of London). Her research lies at the intersection of philosophy, gender, technology, law and race. Dr Adams sits on the Independent Expert Panel of the South African Department of Science and Innovation and Council for Scientific and Industrial Research’s Centre on Artificial Intelligence Research (CAIR), and she is a member of the Independent Advisory Group of the Surveillance Camera Commissioner for the UK Home Office. Dr Adams is further an Editor of the South African Journal on Human Rights, and the author of *Transparency: New Trajectories in Law* (Routledge, 2020).

**Speakers:**

**Dr Ejikemeuwa J. O. Ndubisi**

Dr. Ejikemeuwa J. O. Ndubisi teaches philosophy in Tansian University, Umunya Nigeria and Pope John Paul II Major Seminary, Awka, Nigeria. Currently, he is the Editor-in-Chief of the Oracle of Wisdom Journal of Philosophy and Public Affairs (OWIJOPPA) and also the General Secretary of the Association for the Promotion of African Studies (APAS).

**Dr Samuel Segun**

Samuel T. Segun is a Research Associate in the Ethics of AI research group at the Centre for Artificial Intelligence Research (CAIR) at the University of Pretoria. He completed his PhD at the University of Johannesburg with a doctoral research focused on developing a robust ethical theory for autonomous intelligent systems that is informed by African values and rivals Western approaches. Samuel’s research interests include the philosophy of artificial intelligence, with a special focus on computational and machine ethics. His other areas of research include the philosophy of mind, especially neurophilosophy and consciousness, business ethics and African intellectual development. Samuel is also a Researcher at the Institute of Intelligent Systems, University of Johannesburg, and a Research Fellow of the Conversational School of Philosophy (CSP).

**Professor Jane Taylor**

Professor Jane Taylor holds the Andrew W. Mellon Chair of Aesthetic Theory and Material Performance, at the Centre for Humanities Research, University of the Western Cape. Taylor has for some years been involved in public scholarship, curating, and arts. She directs the Laboratory of Kinetic Objects, a creative arts hub that explores questions about the subject-object continuum; and the significance of motion in the history of the idea of ‘the live.’ Taylor works across the arts and has published several novels, and playtexts, as well as traditional scholarship. Taylor’s PhD is from Northwestern University, Illinois. She has held the Wole Soyinka Chair of Theatre at Leeds; Skye Chair of Drama at Wits; Visiting Professorship at the University of Chicago; Visiting Fellowships at Oxford and Cambridge; Writer’s Residency at Northwestern, and Visiting Avenali Chair at Berkeley; and was Advisor for Dokumenta; and has been a guest curator of Kentridge’s Centre for the Less Good Idea. She helped launch the Barrydale Festival, working on aesthetics, robotics, AI, and puppetry arts.

**Dr Stephen Cave**

Dr Stephen Cave is Executive Director of the Leverhulme Centre for the Future of Intelligence, Senior Research Associate in the Faculty of Philosophy, and Fellow of Hughes Hall, all at the University of Cambridge. Stephen earned a PhD in philosophy from Cambridge, then joined the British Foreign Office, where he served as a policy advisor and diplomat. He has subsequently written and spoken on a wide range of philosophical and scientific subjects, including in the New York Times, The Atlantic, and on television and radio around the world. His research interests currently focus on the nature, portrayal and governance of AI.

**Dr Kanta Dihal**

Dr Kanta Dihal is a Senior Research Fellow on the AI Narratives project. She is one of the Project Leads on Global AI Narratives and the Project Development Lead on Decolonizing AI. In her research, she explores how fictional and nonfictional stories shape the development and public understanding of artificial intelligence. Kanta's work intersects the fields of science communication, literature and science, and science fiction. She obtained her DPhil in science communication at the University of Oxford: in her thesis, titled 'The Stories of Quantum Physics,' she investigated the communication of conflicting interpretations of quantum physics to adults and children. She is co-editor of the collection *AI Narratives: A History of Imaginative Thinking About Intelligent Machines* (Oxford University Press, 2020) and is currently working with Dr Stephen Cave on the monograph *AI: A Mythology*.

**Session organiser(s):**

Rachel Adams  
HSRC

And Leverhulme Centre for the Future of Intelligence, University of Cambridge.



# Science Forum SOUTH AFRICA



Science Forum South Africa 2020

“Still igniting conversations about science”

9-11 December 2020

**Description of Parallel Sessions organised by Partners for Online Publication**

Session Title: *National and Provincial response to the COVID-19 pandemic: Early observations and a reflection on the mitigation and relief measures by Government and social partners*

Date: Thursday December 10, 2020

Time: 15:45 to 17:15

Session Overview:

The ability of a government to manage the scientific uncertainties of a pandemic within existing legal frameworks, whilst fairly and justly balancing it with and the constitutional rights and freedoms of its citizens, is often the differentiating factor between socio-economic devastation, mere survival or thriving after the curve has been flattened. This mammoth task is further complicated by South Africa’s unique socio-economic profile. Although existing South African legislation provide a framework within which public disasters or health emergencies must be dealt with, winning the war against COVID-19 depends on the collaboration between science, law, public cooperation, and governmental leadership.

This session will explain the legal framework Government chose and used to deal with the COVID-19 pandemic and how its subsequent actions in respect thereof impacted on citizens’ human rights in selected areas which were directly and severely affected by the pandemic. Science played a determining role in the management and response to this pandemic and will the session close with a brief discussion of the scientific voice, freedom of expression and public trust and its importance in dealing with public health issues.

The second session will look at health measures that were put in place by the Gauteng City Region to slow down and reduce infections; the effectiveness and ineffectiveness of the measures that were implemented, and reasons for such; most successful concrete outputs that can be attributed to measures

implemented; obstacles, challenges and failures encountered and how these were addressed and overcome, and lessons learned from the measures implemented.

**Programme: (Description of the running order of the session – 90 minutes)**

15:45 – 16:00: Chairperson (DPME) will introduce the speakers and control the Q&A session.

16:00 – 16:20 Dr Marietjie Botes

16:20 – 16:40 Professor Laetitia Rispel

16:40 – 17:15 Discussion

**Moderator:**

**Godfrey Mashamba** ([Godfrey.Mashamba@dpme.gov.za](mailto:Godfrey.Mashamba@dpme.gov.za))

Mr Mashamba is a Deputy Director General at the Department of Planning, Monitoring and Evaluation (DPME). His responsibilities include evaluation, evidence and knowledge systems, in which amongst others, he oversees the evaluations portfolio of the department and the technical support deployed across government, as well as provision of data integration and analytics services. He is a keen development and policy practitioner, with experience in industrial development, science and innovation policy, and the national statistical systems.

**Speakers:**

**Dr Marietjie Botes**

Dr Botes has exchanged a 20-year career as attorney specialising in the intersection between law and technology for academia in 2019 when she joined the Health Law and Bioethics research group of the University of Kwa-Zulu Natal. Her postdoctoral research focus on genetic research regulation, privacy issues relating to data sharing and related intellectual property rights. Since the COVID-19 outbreak Dr Botes became actively involved in pandemic preparedness and management research and wrote the section about human rights in the SA Country Report. Dr Botes also serves on the ASSAf panel that investigate ELSI relating to gene and cell therapies.

**Professor Laetitia Rispel**

Laetitia Rispel is a Professor of Public Health and holder of South African Research Chairs Initiative (SARChI), entitled Research on the Health Workforce for Equity and Quality School of Public Health, University of the Witwatersrand, Johannesburg, South Africa.

She obtained a PhD from Wits University in 1998, the first black woman to obtain a doctoral degree in the then Department of Community Health (now Public Health). Her research expertise is broadly in public health, and specifically in health policy and systems research. She has extensive and wide-ranging experience of research, teaching, and executive health management in different settings. Professor Rispel is a former Head (Dean) of the Wits School of Public Health (January 2012 until January 2017), and a former Head of the Gauteng Provincial Government Department of Health (2001-2006).

**Session organiser(s):**

Dr Marie Kirsten

[Marie.kirsten@gtac.gov.za](mailto:Marie.kirsten@gtac.gov.za)



**Science Forum South Africa 2020**

**“Still igniting conversations about science”**

**9-11 December 2020**

***Description of Parallel Sessions organised by Partners for Online Publication***

|   |                      |
|---|----------------------|
| Session Title: Integrating Gender across SDG research in South Africa   |                      |
| Date: Thursday December 10, 2020  | Time: 15:30 to 17:00 |
| <p><b>Session Overview:</b><br/> “SDG and sustainability research today suffers from gender blindness, and unless this changes, the implementation of SDGs will not achieve the successes it could. All SDG areas of research would benefit from applying a gender perspective when planning implementation strategies for the next 10 years to ensure that the outcomes benefit everyone equally.” These provocative words from Dr. Elizabeth Pollitzer, Director of Portia and founder of the <a href="#">Gender Summits</a> is reinforced by unprecedented research from Elsevier’s <a href="#">International Center for the Study of Research</a> which assesses SDGs areas of research, revealing a stark absence of sex and gender analysis. This panel will focus on South Africa’s strong contribution to SDG research and offer different perspectives on integrating sex and gender strategies for raising awareness, benchmarking and stimulating more societally impactful research across the board.</p> |                      |
| <b>Programme:</b>   |                      |
| <b>Moderator:</b>   |                      |
| Ylann Schemm, Director of the Elsevier Foundation   |                      |
| <b>Speakers:</b>  |                      |
| <ul style="list-style-type: none"> <li>• Dr Molapo Qhobela, CEO of NRF</li> <li>• Prof Jonathan Jansen, <a href="#">President of ASSAF</a></li> <li>• Holly Falk Krzesinski, VP Research Intelligence, Elsevier and Board member International Center for the Study of Research</li> <li>• Jennifer Thompson, Pres of OWSD, Prof Emeritus at the Univ of Cape town</li> </ul>   |                      |
| <b>Session organiser(s):</b>  |                      |
| Ylann Schemm, Director of the Elsevier Foundation   |                      |



**Science Forum South Africa 2020**

**“Still igniting conversations about science”**

**9-11 December 2020**

***Description of Parallel Sessions organised by Partners for Online Publication***

Presented by: European Commission’s Joint Research Centre

Session Title: Smart Specialisation policies for green industrial and territorial transformations in Sub-Saharan Africa: evidence gaps and institutional requirements

|                                  |                      |
|----------------------------------|----------------------|
| Date: Thursday December 10, 2020 | Time: 15:30 to 17:00 |
|----------------------------------|----------------------|

**Session Overview:**

Smart Specialisation Strategies (S3) are based on the concept of knowledge-based economic transformation agendas. They aim at developing the competitive advantages of a territory – country or sub-national region – by matching the knowledge, research, technology and innovation assets with the local challenges and the needs and capabilities of the business sector. To achieve this, policies must be evidence-based and tailored to the local context, acknowledging that different pathways for regional innovation and development exist. In the European Union (EU), the S3 approach has been promoted under the Cohesion policy to reduce the socio-economic disparities between the EU regions through a more efficient use of regional funds for innovation.

The JRC, in collaboration with African institutional and research stakeholders, has undertaken scientific works and cooperation on Smart Specialisation since 3 years. They mainly aim at identifying the institutional conditions for the application of Smart Specialisation in line with the development agendas of Africa (Agenda 2063, STI Strategy for Africa 2024, Industrial plans, among other). In particular, the knowledge exchanges should stimulate mutual learning in order to enhance the localised support to innovation for the achievement of Sustainable Development Goals (SDGs) in the context of multidimensional resources constraints (true in Africa and also in many places in Europe and beyond).

The main objective of the technical session is thus to discuss the **potential steps in the form of roadmap elements** for the launching of Smart Specialisation Strategies pilots in the national and regional contexts of sub-Saharan Africa. It aims at a better understanding of the **evidence gaps, capacity-building and**

**institutional requirements** (governance and monitoring) for the localisation and customisation of smart specialisation policies in the regional contexts.

#### Indicative questions

1. Which types of institutional arrangements and **governance** setting could support the uptake of Smart Specialisation policies in the sub-Saharan African socio-economic and innovation contexts?
2. What **evidence** gaps should be addressed (gradual approach) to adequately support innovation-led and localised or place-based roadmaps for achieving green industrial and territorial development?
3. Which types of administrative, innovation policymaking and monitoring **capabilities** could support the launching of Smart Specialisation policies in the regional contexts?
4. What **lessons** can be drawn from the international and European experiences in the design and implementation of Smart Specialisation or localised industrial innovation policies (for instance in Europe and Latin America)?

(indicative JRC academic reference: [Smart specialisation strategies in sub-Saharan Africa](#))

#### **Programme:**

- Welcome by Ms Liliana PASECINIC Liliana.PASECINIC@ec.europa.eu, Deputy Head of Unit JRC.A.3 at the European Commission, Joint Research Centre
- Background, Panel debate + Q&A, led by JRC Moderator  
Key conclusions and closing
- by Mr Alessandro RAINOLDI Alessandro.Rainoldi@ec.europa.eu, Head of Unit JRC.B.3, European Commission, Joint Research Centre
- & Dr. Bi Irie VROH Vroh@africa-union.org, Acting Executive Director of the African Observatory of Science, Technology and Innovation (AOSTI)

#### **Moderator:**

**Dr Mafini Dosso** (Ms), currently serves as the Economist and Policy Analyst and Leader of the project 'Smart Specialisation Strategies with sub-Saharan Africa' at the European Commission Joint Research Centre in Seville, Spain. She holds a Masters' degree in Industrial Economics and a PhD in Economics of Innovation of the University of Paris 1 Panthéon Sorbonne (France). She has co-authored several international statistical reports and peer-review articles on thematic such as innovation performances of top innovative firms, industry dynamics and technological developments, evidence-informed innovation policies, smart specialisation, industry 4.0 policies and readiness. *Twitter:* <https://twitter.com/MafiniDosso>  
*LinkedIn:* <https://www.linkedin.com/in/mafini-dosso-7b074695/>

#### **Speakers:**

**Dr. Vroh BI IRIÉ (Mr)** Ag. Director of the African Union Commission's African Observatory of STI, AUC-AOSTI

**Prof. Ricard Esparza Masana (Mr)** Professor of economic analysis at the Autonomous University of Barcelona. He holds two MSc in Specialised Economic Analysis by the Barcelona Graduate School of Economics and the Pompeu Fabra University, and a PhD in Innovation policy by the Technical University of Catalonia. He also served as head of the international department of the university's S&T park and has undertaken research in the field of innovation policy, with a large range of collaborations and contracts with several institutions worldwide, in more than 30 countries in 6 continents, including the European

Commission, the World Bank, the Government of Peru, the Government of Catalonia, and EU and foreign national and regional governments and agencies.

**Prof. Roberta Rabellotti (Ms)** is Professor of Economics in the Department of Political and Social Science, Università di Pavia and Assigned Professor at the University of Aalborg, Denmark, where I am associated with the IKE (Innovation, Knowledge and Economic Dynamics) Research Group in Copenhagen. She holds a Master of Science in Development Economics at the University of Oxford and a Doctor of Philosophy at the Institute of Development Studies, University of Sussex. Her research focuses on development economics, regional economics, innovation in developing countries, clusters and small enterprises, multinationals and Global Value Chains. She worked with Orkestra, Inter-American Development Bank, EC, UNIDO, ILO, ECLAC-UN, UNCTAD.

**Dr. Mathias SPALIVIERO (Mr)** mathias.spaliviero@un.org is an Environmental Scientist with a PhD in Geography, who has spent the last 18 years working for the UN-Habitat in Africa on more than 20 countries. Before UN-Habitat he was lecturer and researcher at the Geoinformation Science and Earth Observation Faculty (ITC) of Twente University in the Netherlands. He is currently Senior Human Settlements Officer in the Regional Office for Africa, task manager for 10 active country programmes, and the focal point for risk reduction, climate change adaptation and urban resilience for the region. Importantly, he has promoted the formulation of national urban policies and spatial development frameworks in several countries such as Angola, Burkina Faso, Cabo Verde, Rwanda, Sudan (Darfur) and Zambia

**Prof. Ivan TUROK (Mr)** ITurok@hsrc.ac.za is currently Executive Director: Economic Performance and Development at the Human Sciences Research Council and was Chairman of the Durban City Planning Commission. He holds the Research Chair in City-Region Economies at the UFS and has authored more than 150 peer-reviewed publications and 11 books/monographs. He holds an NRF B1-rating and is the former Editor-in-Chief of the top international journal, *Regional Studies*. He was formerly Professor of Urban Economic Development, and Director of Research: Department of Urban Studies at the University of Glasgow. He is an occasional adviser to the United Nations, OECD, African Development Bank, UNECA, and several national governments. His recent books include *Transitions in Regional Economic Development* (2018, Routledge), *Value Chains in Sub-Saharan Africa* (2019, Springer), and *Restoring the Core: Central City Decline and Transformation in the South* (2020, Elsevier). PhD from the University of Reading. –

**Parfait YONGABO (Mr, Young scientist)**, yoparfait@gmail.com, University of Lund and University of Rwanda (UR). Assistant Lecturer at UR, Parfait holds a Master of Science in Biodiversity Conservation and Natural Resources Management and he is completing a PhD Degree in Research Policy at Lund University, Sweden. His research interest is on innovation studies, policy analysis and research impact evaluation. His recent research focuses on the development and operationalization of policy instruments for knowledge-based development. He is also involved in research on the Rwandan Agriculture Innovation System and has published several scientific articles, conferences, scientific and technical reports. He has performed international research with institutions such as FAO, Sida, Belspo and EU-JRC. –

**Dr Bi Irié VROH (Mr)**, Vroh@afrika-union.org is the Acting Executive Director of the African Observatory of Science, Technology and Innovation (AOSTI). He holds a PhD in agronomic sciences and bioengineering from the University of Liège (Belgium). He worked as geneticist at Cornell University (New York) in the area of genomics and genetic improvement of crop species. He joined AOSTI in 2012 as Senior Expert (Science and Technology Policy). Prior to joining AOSTI, Dr Vroh was the Head of a research for development (R4D) program for West and Central Africa at the International Institute of Tropical Agriculture (IITA).

**Session organiser(s):**

European Commission, Joint Research Centre, Dir. B. Growth and Innovation,  
Unit B3. Territorial Development (Séville, Spain)

*Contact :* Dr Mafini Dosso, [Mafini.dosso@ec.europa.eu](mailto:Mafini.dosso@ec.europa.eu)

African Union Commission, African Observatory of Science, Technology and Innovation (AOSTI)  
(Malabo, Equatorial Guinea)

*Contact :* Dr. Bi Irie Vroh [Vrohbi@africa-union.org](mailto:Vrohbi@africa-union.org)



Science Forum  
SOUTH AFRICA



**Science Forum South Africa 2020**

**“Still igniting conversations about science”**

**9-11 December 2020**

***Description of Parallel Sessions organised by Partners for Online Publication***

Presented by: Africa – Europe Innovation Partnership

Session Title: Sustainable Innovation policy forum on Building back greener: opportunities across the board

|                                  |                      |
|----------------------------------|----------------------|
| Date: Thursday December 10, 2020 | Time: 15:30 to 17:00 |
|----------------------------------|----------------------|

**Session Overview:**

During the Sustainable Innovation policy forum perspectives, learnings and opportunities from policy makers, corporates, tech hubs and investors will be shared on building back greener.

During the official opening the building back greener goal will be illustrated with opportunities within the thematic and horizontal ambitions facilitated via the Horizon2020 European Green Deal Call. Multiple stakeholders will reflect on these opportunities as well during the interactive panel discussion, on how they have increasingly invested in sustainable innovation, with which results and which opportunities they foresee. A more operational perspective will be shared with the highlights from AEIP participants on a.o. new partnerships and takeaways from the sessions, in particular within the cleantech field.

**Programme:**

|               |   |
|---------------|---|
| 5 minutes     | Welcome & house rules   |
| 10-15 minutes | Official opening by Dr. Mmboneni Muofhe & Ms. Nienke Buisman  |
| 15 minutes    | Keynote on sustainable innovation ecosystem in Africa and collaboration across borders by Ms. Anna Ekeledo - Afrilabs   |
| 30 minutes    | Panel on opportunities & best practices in sustainable innovation with experts from:<br><br>Tech hubs: collaboration on sustainable innovation between Burkina Business Incubator (Burkina Faso) & Technoport (Luxemburg) |

|            |   |
|------------|---|
|            | Policy: Africa Research and Impact Network<br>Capital: Green Tec Capital  |
| 15 minutes | AEIP highlights: new partnerships, Cleantech startup challenge, findings from the Community of Practice and takeaways on incubation in green tech |
| 5 minutes  | Closing remarks by Nina Commeau-Yannoussis  |
| 5 minutes  | Upcoming events & wrap up   |

**Moderator:**

**Mr Samir Abdelkrim**

Entrepreneur, former columnist for Le Monde, Les Echos & le HuffPost, **Samir Abdelkrim** is an expert on African innovation with more than 400 analysis, reports, interviews carried out and broadcasted in multiple European and African media since 2013. Between 2013 and 2017 he traveled across innovative Africa and explored the digital ecosystems of 25 African countries through a collaborative initiative funded by crowdfunding, called #TECHAFrique.

**Speakers:**

*Official opening*

**Dr. Mmboneni Muofhe**

**Dr. Muofhe** is the Deputy Director General for Technology Innovation, at the Department of Science and Innovation, South Africa.

**Nienke Buisman**

**Nienke Buisman** is working as Head of Unit International Cooperation in the European Commission, Directorate-General Research & Innovation since 2019. She is in charge of developing and implementing the EU's research and innovation cooperation policy with Africa, Asia and the Middle East. Nienke started her career in the European Commission in 2002, in DG Transport and Energy as the assistant to the Resources Director. Nienke holds a MSc in Development Studies from the London School of Economics and Political Science (LSE). She also holds a double French-British MA in European Public Policy.

Keynote

**Ms Anna Ekeledo**

**Anna Ekeledo** is the Executive Director of AfriLabs, a network organization of over 133 Technology and Innovation Hubs across 36 African countries; leading the organization to develop programmes for start-ups and innovators, and building partnerships that support innovation hubs and stakeholders raise high potential entrepreneurs that will stimulate economic growth and social development in Africa. Anna is a speaker, consultant, mentor, trainer and an advisor on the Advisory Group on Technology and Creativity, under the Nigerian Industrial Policy and Competitiveness Advisory Council. She is passionate about leveraging on technology for social impact and inclusion; creating social and economic opportunities for all!

*Interactive panel discussion on sustainable innovation*

**Mr Sannsi Cissé (tentatively confirmed)**

**Sannssi Cissé** was born in Frankfurt and raised in Berlin, but he knew from his earliest steps in business that his work would eventually pivot him toward Africa. Cissé, works as the head of collaboration at GreenTec Capital Africa Foundation, a nonprofit organization promoting investment in

African entrepreneurship. Previously he worked with the German-African Business Association, the foreign trade association representing German companies and institutions in Africa.

**Dr Joanes Atela**

**Joanes Atela** is Senior Research Fellow and the Head of the Climate Resilient Economies Programme at the African Centre for Technology Studies (ACTS). Joanes' main interest lies in research, and policy analysis on the socio-technical interactions between sustainable development technologies and African context – including policies, culture, livelihoods with special focus on the energy, agriculture and forestry sectors. Through quality research and policy analysis, Joanes has ably led the climate change programme at ACTS to become one of the best in the world- ranking third globally according to the 2016 ICCG think tank rankings. He holds a PhD in Environment and Development from the University of Leeds, UK and MSc in Resource Management in the Tropics from the University of Bonn, Germany (First Class).

**Mr Soulamane Konkobo**

**Soulamane Konkobo** is a Technical Director and Management Consultant for 2M Invest Consult in Burkina Faso. As the Technical Director and Management Consultant, his responsibilities are diversified and are centered on securing contracts for the firm and executing them diligently. His specific area of interest is business consultancy with focus on organizational development, business creation, and capacity-building, all of which address the specific development needs of Burkina Faso. Mr. Konkobo holds a Masters in Marketing Management and a Research Masters in Business Administration from the Higher Institute of Management in Dakar, Senegal.

**Ms Catherine Delevoye**

**Catherine Delevoye** is a senior business advisor with a background in economics and law. She provides coaching and hands-on support for the development of innovation-driven ICT and creative companies at a national and international level. Before joining Technoport, Catherine Delevoye was working as a senior consultant for venture capital European programmes (Eurotech Capital, I-TEC) and in the Entrepreneurial Services teams of Arthur Andersen and Ernst and Young. She has more than 20 years of experience in analyzing business models and supporting the development, acceleration and growth of start-up companies and is an independent expert in Technologies for creative industries, social media and convergence for the European Commission in Luxembourg.

Session organiser(s):

Africa-Europe Innovation Partnership

<https://africaeurope-innovationpartnership.net/>

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**Science Forum South Africa 2020**

**“Still igniting conversations about science”**

**9-11 December 2020**

***Description of Parallel Sessions organised by Partners for Online Publication***

Presented by: African Union Commission, International Science Council

|  |                      |
|--|----------------------|
| Session Title: African Platform for Science Advisors – Building the Capacity of Science Advisors to Ministers on the continent   |                      |
| Date: Thursday December 10, 2020   | Time: 15:30 to 17:30 |
| <p><b>Session Overview:</b></p> <p>In their virtual meeting held in April 2020, the African Ministers in charge of Education, Science and Technology strongly underscored that the current COVID-19 pandemic challenges the continent’s readiness to provide rapid and strong responses from all disciplines of science, technology and innovation and deploy novel approaches underscored by evidence-based policies and scientific advice for decision-making, to combat such crisis. The contribution of science to provide evidence-based knowledge that will effectively inform the policy making and implementation processes has been hampered, to a certain extent, by a gap that exists between the policy makers and the scientific community. This gap should inherently be bridged in order to bring science- based evidence to the centre of decision making in government. This can only be achieved if science advisors to ministers work closely with the science community to influence strategic long-term thinking that informs policies, decisions, services and operations.</p> <p>This session presents the African Platform for Science Advisors to STI Ministers and Capacity Building Programme. The platform was initiated by the African Union Commission (AUC) and the International Science Council Regional Office for Africa (ISC ROA), in collaboration with other regional science-policy actors. The session presents the work done so far and the plan put in place in preparation for developing the continent’s science advisors’ capacity (through a series of training courses) to ensure that science-based evidence and advice, which is robust, relevant and high quality, is brought to the centre of the decision making processes, which will ensure that policy making is underpinned by science, technology and innovation.</p> <p>The roundtable discussion of this session will be pivoted around the ‘how’ and the ‘who’ as well as the ‘where’ the necessary resources could come from.</p> |                      |
| <p><b>Programme:</b></p> <p>(Description of the running order of the session – 120 minutes)<br/>Our envisioned/desired 120-minutes session programme:</p> <p><b>Draft Programme</b></p>  |                      |

#### Opening Remarks

- **Dr. Mahama Ouedraogo**, Director, Department of Human Resources, Science and Technology, African Union Commission (AUC-HRST) [5 minutes]
- **Dr Heide Hackmann**, Chief Executive Officer, International Science Council (ISC) [5 minutes]

#### Presentations

- Statement from the Chair of the African Union Committee on Education, Science and Technology on the importance of and need for capacity building of science advisors in Members States: **Eng. Dr James Kasigwa**, Director, Science, Technology and Innovation, Regulation and Biosafety Ministry of Science Technology and Innovation [10 minutes]
- African Platform for Science Advisors (APSA) Initiative: **Dr Richard L.K. Glover**, Programme Specialist, International Science Council Regional Office for Africa [10 minutes]
- APSA Capacity Building Programme: **Prof Carolina Johanna Odman**, University of the Western Cape, Cape Town, South Africa (10 minutes)
- Experience from the EU efforts and potential support to the African Platform for Science Advice: **Mr David Mair**, Head of Unit, European Commission, Joint Research Centre (10 minutes)

#### Roundtable Discussion

- **Dr Irie Vroh-Bi**, Ag. Executive Director, African Observatory of Science, Technology and Innovation, Africa Union
- **Dr M. Oladoyin Odubanjo**, Executive Secretary, Nigerian Academy of Science)/Steering Committee Chair, International Network for Government Science Advice - Africa Regional Chapter
- **Prof Lise Korsten**, Professor in Plant Pathology, University of Pretoria/Fellow, African Academy of Sciences
- **Dr Mlungisi Cele**, Acting Head: National Advisory Council on Innovation

Each panellist to give a 5-minute introductory remark (20 minutes)

The discussion will centre around and seek to address the following:

- i) How could APSA ensure that science-based evidence and advice reach to those in the decision making process at national, regional and continental levels?
- ii) How should the capacity building programme address gaps and what should be done to make sure that the need is addressed?
- iii) Who should be involved in APSA and in the capacity building programme, and how can organisations like the one you represent contribute to the success of this initiative?
- iv) How do we ensure sustainably of and resourcing (financial, technical, technological, etc.) APSA and how can organisations like the one you represent contribute?

#### Q & A Session (40 minutes)

#### Outcomes (6 minutes)

The session Moderator will present the session outcomes and the way forward.

#### Closing Remarks

- **Dr Mahama Ouedraogo**, Director, AUC-HSRT (2 minutes)
- **Dr Heide Hackmann**, Chief Executive Officer, ISC (2 minutes)

#### Moderator:

**Prof Hilary I. Inyang** served as the US Ambassador's Distinguished Scholar to Ethiopia before the COVID-19 break. He is a former Duke Energy Distinguished Professor of Environmental Engineering and Science, and Director of the Global Institute of the University of North Carolina, Charlotte, USA. He chaired the steering committee of the Africa Science Plans under ICSU. He has authored/co-authored more than 272 research articles, book chapters, design manuals and the textbook: "Geoenvironmental Engineering: Principles and applications", (ISBN: 0-8247-0045-7). He was the Editor-in-Chief of the Journal of Energy Engineering of the American Society of Civil Engineers (ASCE), and associate editor/editorial board member of 33 refereed international journals.

## Speakers:

**Dr. Mahama Ouedraogo** holds a PhD in Plant Breeding from Texas A&M University. He served as acting Director of the Semi-Arid Food Grain Research and Development and Executive Secretary of the African Union Scientific Technical and Research Commission before heading the Science and Technology division at the AUC. He is currently the Director of the Department of Human Resources Science and Technology (HRST), of the African Union Commission. In these capacities he oversees the implementation of various African Union decisions on Science and Technology, including the Science Technology and Innovation Strategy for Africa (STISA-2024), the Continental Education Strategy, and the flagship programs such as the Pan African University, the Pan African virtual University and the outer space project. For the past 6 years he has been contributing towards the African Space Policy and Strategy which were adopted by the African Heads of State and Government in January 2016, and the current focus is on the development of the governance for the effective implementation of this continental space policy. Under his purview is the African Observatory for Science Technology and Innovation based in Malabo, Equatorial Guinea.

**Dr. Heide Hackmann** is the [Chief Executive Officer of the International Science Council](#). She was Executive Director of ICSU, and she was Executive Director of the International Social Science Council from 2007-2015. Dr Hackmann co-chairs the Technology Facilitation Mechanism, UN group supporting the implementation of the Sustainable Development Goals. She is also a member of a number of international boards relating to science and sustainability, which include the Scientific Advisory Board of the Potsdam Institute for Climate Impact Research in Germany, the Stockholm Resilience Centre in Sweden.

**Eng. Dr. James Kasigwa** is the Director for Science, Technology & Innovation Regulation and Biosafety, at the Ministry of Science, Technology and Innovation. Government of the Republic of Uganda. The Directorate of STI Regulation is responsible for providing Strategic leadership on all matters pertaining to STI regulation in the country and alignment to regional and international treaties, protocols, conventions and best practices. Eng. Kasigwa is the Technical Chair of the Specialized Technical Committee on Education, Science and Technology (STC-EST) of the African Union. He is a Telecommunications Engineer, and has had an illustrious career in academia, industry and Government. Eng. Kasigwa is passionate and an advocate for Innovation and Experimental Development for socio-economic transformation.

**Dr Richard L.K. Glover** is a Biological Scientist with a bias in Medical and Food Microbiology and focus on Antimicrobial Screening of Traditional Medicinal Plants/Products and Traditional African Fermented Food Processing. He is a member of the South African Council for Natural Scientific Professions (SACNASP) and the South African Society for Microbiology (SASM). He is the Regional Programme Officer (RPO) and member of the Steering Committee of the International Network for Government Science Advice (INGSA) Africa Chapter.

**Prof Carolina Johanna Odman** Associate Director, Development and Outreach, Inter-University Institute for Data Intensive Astronomy, University of the Western Cape, South Africa.

Carolina Ödman is Associate Professor at the University of the Western Cape, South Africa. She is Associate Director, Development and Outreach and the Inter-University Institute for Data Intensive Astronomy, working on topics in science for development. She is a member of the South African Council for Natural Scientific Professions (SACNASP), of the South African Institute of Physics and of the International Astronomical Union.

**David Mair** ([@DavidMair4](#)), Head of Unit, Joint Research Centre, European Commission, leads a team developing practical tools to inform public policy through scientific evidence, including training events and materials for scientists and policymakers, building science-policy systems in EU Member States and cutting edge research into the obstacles to evidence-informed policy<sup>1</sup>. He has organised two training major events for African scientists working on

<sup>1</sup> <https://ec.europa.eu/jrc/en/facts4eufuture/understanding-our-political-nature>

these topics<sup>2</sup>. The JRC has recently published a free to access major handbook for scientists seeking to influence policy<sup>3</sup>.

**Dr Vroh** is the Acting Executive Director of the African Observatory of Science, Technology and Innovation (AOSTI). He holds a PhD in agronomic sciences and bioengineering from the University of Liège (Belgium). He worked as geneticist at Cornell University (New York) in the area of genomics and genetic improvement of crop species. He joined AOSTI in 2012 as Senior Expert (Science and Technology Policy). Prior to joining AOSTI, Dr Vroh was the Head of a research for development (R4D) program for West and Central Africa at the International Institute of Tropical Agriculture (IITA).

**Dr M. Oladoyin Odubanjo** is the Chairman of the African Chapter of the International Network for Government Science Advice (INGSA-Africa). He is also the Executive Secretary of the Nigerian Academy of Science and immediate past Chairman of the Association of Public Health Physicians of Nigeria (Lagos Chapter). Dr Odubanjo is an Adviser to the Centre for Palliative Care Nigeria and serves on the board of the West African office of The Conversation Africa. He is a member of the Committee on Enhancing Global Health Security through International Biosecurity and Health Engagement Programs of The National Academies of Science, Engineering, and Medicine (formerly US National Academies). Dr Odubanjo was instrumental to a successful transition of the Nigerian Academy of Science from a largely honorific organization to one that provides evidence-informed advice to government and other stakeholders. This happened within the African Science Academies Development Initiative of the US National Academies. In the last several years, he has collaborated with various academies globally and the Network of African Science Academies on diverse projects aimed at informing policy. In the Nigerian academy, he has received and successfully managed grants from various US-based institutions including the US Department of State, Ford Foundation, Rockefeller Foundation, and the US Civilian Research and Development Foundation.

**Prof Lise Korsten** is an African Academy of Sciences and is currently a co-Director of the DST/NRF Centre of Excellence Food Security. She is also responsible for the food safety programme within the CoE and actively interact with other researchers in various institutes. She is a senior editor for the Springer journal Food Security and Chair of the International Society for Plant Pathology Task Force on Global Food Security. Prof Korsten has addressed Parliament on Food Safety Control and has developed a national framework for Government to develop a Food Control Authority. Prof Korsten has focused her research mainly on postharvest technology and food safety as related to international trade in fresh produce.

**Dr. Mlungisi Cele** is the Acting Head of the National Advisory Council on Innovation (NACI), which is a statutory advisory body to the South African government on STI issues. Some of his policy contributions include providing leadership to the following initiatives: the review of the 1996 White Paper on Science and Technology, development of the high-level framework for the development of new STI decadal plan, the 2030 National Foresight Exercise on STI, the development of Monitoring and Evaluation Framework for the National System of Innovation (NSI) and review of the National Research and Development Strategy and Ten-Year Innovation Plan, which is underway. Dr Cele studied, worked and developed passion and interest and networks in science, technology and innovation policy, and higher education policy research. He holds a PhD in Higher Education Studies and an MPhil in Science and Technology Studies. Dr Cele worked as a researcher at the former University of Durban-Westville (now part of the University of KwaZulu Natal) and University of the Western Cape. Academic outputs include edited book entitled innovation policy at the intersection: global and local experiences” (2020). Also presented at local and international academic conferences. Dr Cele also represents South Africa in various multilateral forums and think tanks.

#### Session organisers:

2

<https://www.youtube.com/watch?v=lo1fJrREsSw&feature=youtu.be&list=PLGI5zHT2w7jAd48aJbZLPisXrxPPBDLVJ>

<https://ec.europa.eu/jrc/en/event/workshop/eipm-water-energy-food-health>

<sup>3</sup> <https://ec.europa.eu/jrc/communities/en/community/evidence4policy/document/science-policy-handbook>

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**Science Forum South Africa 2020**

**“Still igniting conversations about science”**

**9-11 December 2020**

***Description of Parallel Sessions organised by Partners for Online Publication***

Presented by: Embassies of Finland, France, Sweden and Switzerland

|  |
|--|
| Session Title: Technology Transfer-From Academia to Industry |
|--|

|                                  |                      |
|----------------------------------|----------------------|
| Date: Thursday December 10, 2020 | Time: 15:30 to 17:00 |
|----------------------------------|----------------------|

**Session Overview:**

The principal goal of technology transfer for society and the national economy in the medium and long-term is to create cooperation based on partnership between academia and the private sector giving effect to the notion of science to market. The successful transfer of technologies developed in universities and institutes of research and higher learning is playing an increasingly important role in the process of innovation. Multiple countries around the globe have achieved notable success in taking science to market through technology transfer. Key for such accomplishments is a basket of instruments, fledged throughout a nation’s innovation system.

South Africa is no newcomer in their objective of taking science to market through the Technology Transfer Offices in research institutions and governmental agencies such as the Technology Innovation Agency and the Water Research Commission.

This webinar will explore the (i) institutional resources and instruments for academia-industry technology transfer; (ii) research collaboration with partners from the economy; (iii) commercial activities in academia industry collaboration for technology transfer; (iv) academia-industry technology transfer ecosystem in either Finland, Sweden, Switzerland, France or South Africa; (iv) use case examples from South by the Water Research Commission.

The webinar aims to convene the Technology Transfer Offices, science councils, government agencies and organizations responsible for taking science to market or having an interest in academia to industry technology transfer.

**Case study presentation**

The webinar will be initiated through the presentation of a case study by the Water Research Commission on the technology transfer of innovations in the water sector in South Africa.

**Programme:**

- 5' Opening Remarks by the Moderators
- 10' WRC Case study Presentation
- 10' Finnish Panelist
- 10' French Panelist
- 10' South African Panelist
- 10' Swedish Panelist
- 10' Swiss Panelist
- 20' Moderated discussion with panelist
- 5' Closing Remarks

**Moderator:**

**Sakina Kamwendo** is the award winning host of METRO FM Talk with Sakina which was voted the Best News & Actuality Show at the MTN Radio Awards 2013 and 2014. Sakina's radio journey started at Radio Eldos, a community station in Eldorado Park. Her big break came when Talk Radio 702 allowed her to screen calls for the overnight show but soon progressed to producing weekend and then early breakfast shows while still holding down a fulltime job at the Maths Centre. When she was offered the position as Traffic Reporter on the David O'Sullivan Show, she decided to quit Maths Centre to concentrate on broadcasting full time. In addition to traffic, Sakina also hosted a graveyard slot at 702 and management showed confidence in her ability by asking her to "stand in" on other shows and produce the John Robbie Show. Whilst she loved working at 702, Sakina had greater on-air aspirations. With this in mind, Sakina moved to the SABC/ SAfm, where she now hosts "AM Live" as well as the Morning Live News from 6 – 9 AM.

**Speakers:**

|              |   |
|--------------|---|
| South Africa | <p><b>Speaker:</b> Thabo Mthombeni<br/> <b>Position:</b> Technology Transfer Manager at the Water Research Commission<br/> <b>Bio:</b> <a href="https://www.linkedin.com/in/thabo-mthombeni-126a05128?originalSubdomain=za">https://www.linkedin.com/in/thabo-mthombeni-126a05128?originalSubdomain=za</a><br/> <b>Topic:</b> Case Study about SA Tech Transfer in the Water Sector</p> |
| South Africa | <p><b>Speaker:</b> Ravini Moodley<br/> <b>Speaker:</b> Senior Commercialisation Manager at the CSIR<br/> <b>Bio:</b> <a href="https://www.linkedin.com/in/ravini-moodley-rtp-57755426/">https://www.linkedin.com/in/ravini-moodley-rtp-57755426/</a><br/> <b>Topic:</b> Institutional resources and instruments for academia-industry technology transfer</p>                           |
| Switzerland  | <p><b>Speaker:</b> Alessandro Mazzetti<br/> <b>Position:</b> Manager Innovation Alliances at the University of Basel<br/> <b>Bio:</b> <a href="https://www.linkedin.com/in/amazzetti9384/?originalSubdomain=ch">https://www.linkedin.com/in/amazzetti9384/?originalSubdomain=ch</a><br/> <b>Topic:</b> Academia-industry technology transfer ecosystem in Switzerland</p>               |
| Finland      | <p><b>Speaker:</b> Presentation of innovation collaboration Finland-South Africa (speaker tbc)<br/> <b>Topic:</b> Commercial activities in academia industry collaboration for technology transfer</p>  |
| Sweden       | <p><b>Speaker:</b> Presentation of innovation collaboration Sweden-South Africa (speaker tbc)<br/> <b>Topic:</b> research collaboration with partners from the economy</p>  |
| France       | <p><b>Speaker: Olivier Mallet.</b><br/> Deputy Head of Department for Partnership Research and Open Innovation. Department of Innovation, Technology Transfer and Regional Action (SITTAR). Directorate General for Research and Innovation.</p>  |

**Session organiser(s):**

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**Science Forum**  
SOUTH AFRICA



## Science Forum South Africa 2020

“Still igniting conversations about science”

**9-11 December 2020**

### ***Description of Parallel Sessions organised by Partners for Online Publication***

Presented by: Southern African Development Community Secretariat

Session Title: Towards a SADC-TIPC Community of Practice

Date: Thursday December 10, 2020

Time: 15:30 -17:00

Session Overview: (Maximum 300 words providing short contextual background for the sessions and highlighting key questions to be interrogated)

The inaugural SADC-TIPC virtual consultation session was convened on the margins of the 2020 TIP Forum in October 2020. A total of nine SADC Member States participated in the session that was coordinated by the SADC Secretariat in partnership with the TIPC and South Africa. The main objective of the session was to share with SADC Member States principles of the Transformative Innovation Policies and explore the feasibility of establishing a SADC Regional Hub or TIPC Community of practice. The session also deliberated on the synergies between the various capacity building initiatives for SADC and the TIPC work.

SADC Member States recommended for the integration of TIP principles in the SADC programmes; not only at a technical level but also at a SADC policy making level to assist the region with the implementation of policies. Collaboration between the SADC region with TIPC will assist in building the regional capacity implementing the transformative innovative policies approach. The session agreed that a follow-up virtual session will be held on the margins of the Science Forum to discuss the establishment of the SADC -TIPC community of practice. The session will deliberate on the following:

- How the application of Transformative Innovation Policy Approaches could address SADC STI Challenges?
- How the Development of the SADC-TIPC Community of Practice could address identified challenges (regional experiments).

#### **Programme:**

The session will kick-start with official opening remarks by the current Chair of SADC Mozambique as well as the remarks by the SADC Secretariat. There will be a presentation on Transformative Innovation Policy Approaches to address SADC STI Challenges followed by an interactive discussion. This will be

followed by a reflection on the Development of the SADC-TIPC Community of Practice to address identified challenges (regional experiments) as well as the way forward and closing remarks.

**Moderator:**

**Ms Mmampei Chaba:** Chief Director- Multilateral Cooperation and Africa.

**Speakers:**

Ms Anneline Morgan, SADC Secretariat  
Mr Alberto Tonela, Mozambique  
Dr Chux Daniels, University of Sussex (SPRU)

**Session organiser(s):**

The session is organized by the Department of Science and Innovation in partnership with TIPC and SADC Secretariat.

Ms Mandry Ntshani- DSI ([Mandry.Ntshani@dst.gov.za](mailto:Mandry.Ntshani@dst.gov.za))

Ms Anneline Morgan, SADC Secretariat ([amorgan@sadc.int](mailto:amorgan@sadc.int))

Dr Chux Daniels, SPRU (Chux Daniels [C.U.Daniels@sussex.ac.uk](mailto:C.U.Daniels@sussex.ac.uk))





**Science Forum South Africa 2020**

**“Still igniting conversations about science”**

**9-11 December 2020**

***Description of Parallel Sessions organised by Partners for Online Publication***

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| Session Title: Ethanol: benefits and technological possibilities |
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|----------------------------------|--------------------|
| Date: Thursday December 10, 2020 | Time: 15:30 -17:00 |
|----------------------------------|--------------------|

**Session Overview:**

Energy production and use are the largest sources of global greenhouse gas (GHG) emissions today. This is why the energy sector should be a major focus of the efforts to reach the Paris Agreement long-term temperature goals of “holding the increase in the global average temperature to well below 2 °C above pre-industrial levels and pursuing efforts to limit the temperature increase to 1.5 °C above pre-industrial levels”.

To realize this low carbon future, it is crucial to scale up the use of modern, sustainable bioenergy. According to the IEA’s Sustainable Development Scenario, worldwide use of modern bioenergy has to double until 2030 - and triple in the transport sector - if the objective of limiting global warming to a maximum of 2°C is to be achieved.

The use of biofuels can significantly reduce GHG emission. The adoption of a biofuels program also helps countries reduce local pollution, which has positive impacts on public health; increases energy security, by reducing fuel import dependency; and provides economic and social benefits, generating jobs and wealth in the countryside.

By sharing experiences from Brazilian and South African experts, the purpose of this panel is to raise consciousness on the several benefits of more widespread use of ethanol – the most widely available biofuel in the world, and to present some of the latest technological developments in the field of ethanol-based energy solutions – such as the bioethanol fuel cell.

This exchange would be of great benefit to both Brazil, which has decades-long experience in the use of ethanol, and South Africa, that has well developed research on the field and great potential to produce sugarcane ethanol. The panel will address technological benefits of the use and development of ethanol, as well as health and environmental aspects of the use of this green fuel.

**Programme:**

- Welcome by moderator and opening remarks by Ambassador of Brazil (10min)
- First Presentation (20min) - Ethanol Sustainable Mobility, the future now, by Mr. Ricardo Simões de Abreu (Brazil)
- Second Presentation (20min) – Title to be informed – Biofuels: advantages to the environment, for health and preventing global warming, by Dr. Paulo Afonso de Andre (Brazil)
- Third Presentation (20min) - Maximising the beneficiation of sugarcane in South Africa into biobased products, Dr. Marilyn Govender (South African Farmer's Development Association) and Dr. Santosh Ramchuran Santosh Ramchuran (CSIR)
- Q&A Session – (20min) -

**Moderator:**

**Dr Rethabile Melamu** is a dynamic and self-motivated professional; she obtained her PhD in Chemical Engineering from the University of Cape Town. She is currently the General Manager for the Green Economy Unit at The Innovation Hub. Before that, she acted in the position of Chief Director: Sector and Industry Development in the Gauteng Department of Economic Development. She has more than a decade's experience in the green economy sector, spanning renewable energy and waste management sectors. She has experience in developing public sector strategies, and has led the revision of the Gauteng Energy and Green Economy strategies. She has published and delivered reports and academic articles in her fields of expertise including for the OR Tambo Debate Series based on Chapter 5 of the South African National Development Plan. In 2019, Dr Melamu was honoured by Mail & Guardian as one of the Women Changing South Africa in the Politics and Government category. Dr Melamu sits on a number of Advisory Boards in the academia and enterprise developments sectors.

**Speakers:**

**Ricardo Simões de Abreu**

Consultant at Bright Consulting, mechanical engineer with specialization in internal combustion engines, former professor of Energy and Thermal Machinery and PhD student of Bioenergy at Unicamp/USP/UNESP. He was a research engineer for the Methanol Project, engine development manager at Mercedes-Benz, Chief Technology Officer of Mahle-Metal Lev and VWorld President of Engine Component Development at Mahle. Founding partner of AEA and member of SAE.

**Dr. Paulo Afonso de André**

Ph.D. and Researcher at the Air Pollution Laboratory at the Medical School of Sao Paulo University (USP). Graduated in Mechanical Engineering, has been acting for 42 years on the environmental area on the water and air systems in the industry. In the last 24 years, has been developing researches on the risk assessment of air pollution in urban areas with air pollution monitoring and the evaluation of health impact with epidemiological and economic tools to support decision-makers on environmental policies.

**Dr. Marilyn Govender** (Diversification Specialist, South African Farmers Development Association)

**Dr. Santosh Ramchuran** (Research Group Leader, Bioprocess Development, CSIR Chemicals Cluster)

Session organiser(s):

**Embassy of Brazil in Pretoria**

PoC Ms. Helena Jornada, Head of the Energy and S,T&I Sector – [helena.jornada@itamaraty.gov.br](mailto:helena.jornada@itamaraty.gov.br)  
071 6638861



**Science Forum**  
SOUTH AFRICA

**Science Forum South Africa 2020**

**“Still igniting conversations about science”**

**9-11 December 2020**

***Description of Parallel Sessions organised by Partners for Online Publication***

Session Title: The Fabric of Dissent: Public Intellectuals in South Africa, edited by Vasu Reddy, Narnia Bohler-Muller and Greg Houston (HSRC Press, 2020)

Date: Wednesday December 9, 2020

Time: 16:30 to 17:45

**Session Overview:**

Who or what is a public intellectual and how are they created? What is the role of the public intellectual in social, cultural, political and academic contexts? What are the kinds of questions they raise? What compels intellectuals to put forward their ideas?

*The Fabric of Dissent: Public Intellectuals in South Africa* is a pioneering volume, presenting a rich tapestry of South African men and women who have been able to break through narrow formulations of identity into a larger sense of what it means to be human. Each brief portrait provides readers with an opportunity to consider the context, influences and unique tensions that shaped the life journeys of the people assembled here. The book showcases an astonishing array of achievements as well as the deep

imprint of these intellectuals on public life, motivating why they should be considered public intellectuals. As South Africans continue to grapple with their complex past, present and future, it is clear that the insights of these remarkable people into reimagining an inclusive society continue to be relevant today.

This session will explore the main themes of the book and narrate the history of its making.

#### **Programme:**

This session is a plenary programmatic item of the opening day of the Science Forum 2020. It will be 75 mins.

8 - 10 minute presentation by Vasu Reddy (The volume's pre-history, concept, process and architecture of what we tried to achieve)

8 - 10 minute presentation by Narnia Bohler-Muller (The volume's CONTENT and it's iterative process incl. future volumes)

Respondent:

10 min by Dr Sithembile Mbete (U)

10 min by Prof William Gumede (UP)

Facilitate Q & A (20 - 30 minutes)

#### **Moderator:**

##### **Professor Crain Soudien**

Crain Soudien is the Chief Executive Officer of the Human Sciences Research Council and formerly a Deputy Vice-Chancellor at the University of Cape Town where he remains an emeritus professor in Education and African Studies. His publications in the areas of social difference, culture, education policy, comparative education, educational change, public history and popular culture include three books, four edited collections and over 200 articles, reviews, reports, and book chapters, including a 2017 book publication entitled "Nelson Mandela: Comparative Perspectives of his Significance for Education" and "The Cape Radicals: Intellectual and political thought of the New Era Fellowship: 1930s – 1960s", published in 2019.

#### **Speakers:**

##### **Professor Vasu Reddy**

VASU REDDY is a Professor of Sociology, and Dean of the Faculty of Humanities at the University of Pretoria, South Africa. His research interests are genders, sexualities, poverty and HIV/AIDS. More recent publications are *Queer in Africa: LGBTQI Identities, Citizenship and Activism* (with Zethu Matebeni & Surya Monro, 2018; Routledge); *Queer Kinship: South African perspectives on the sexual politics of family-making and belonging* (with Tracy Morison and Ingrid Lynch, UNISA Press & Routledge, in 2018) and *State of the Nation: Poverty and Inequalities* (with Crain Soudien and Ingrid Woolard, HSRC Press 2019).

##### **Professor Narnia Bohler-Muller**

Professor Narnia Bohler-Muller is the Divisional Executive of the Developmental Capable and Ethical State (DCES) research division at the Human Sciences Research Council, an adjunct professor of law at the Nelson R. Mandela School of Law in University of Fort Hare and a Research Fellow at the Centre for Gender and African Studies, Faculty of Humanities, University of the Free State. She is an admitted advocate of the High Court of South Africa and has represented South Africa as lead in international for a such as Women20; BRICS and the Indian Ocean Rim Association (IORA). Her research interests

include international and constitutional law, gender, human rights, democracy, governance and social justice.

Google Scholar <https://scholar.google.co.za/citations?user=MZIDI3wAAAAJ&hl=en>

ResearchGate [https://www.researchgate.net/profile/Narnia\\_Bohler-Muller](https://www.researchgate.net/profile/Narnia_Bohler-Muller)

LinkedIn <https://za.linkedin.com/in/narnia-bohler-muller-93047868>

#### **Dr Sithembile Mbete**

Dr. Sithembile Mbete is a lecturer in the Department of Political Sciences at the University of Pretoria where she lectures international relations and South African politics. She is also an Associate Fellow of the Centre for Governance Innovation (GovInn) at the University of Pretoria. She has a doctorate from the University of Pretoria on the subject of South Africa's foreign policy during its two elected terms in the United Nations Security Council (2007-2008 and 2011-2012). She has published on the Economic Freedom Fighters' (EFF) in accredited journals. Her research has been funded by the National Institute for Humanities and Social Science (NIHSS), National Research Foundation (NRF), the American Social Science Research Council (SSRC) and the Mellon Foundation. In 2014 she was a visiting scholar at the Department of Political Science and Balsillie School of International Affairs at the University of Waterloo in Canada. Sithembile is a 2019 Open Society Foundation Democracy Fellow. She is part of an international study group on the rise of populism across the world.

#### **Prof William Gumede**

William Gumede is Associate Professor, School of Governance at the University of the Witwatersrand. He is Executive Chairperson of Democracy Works Foundation and former Deputy Editor of The Sowetan newspaper. During the anti-apartheid struggle, Gumede held several leadership positions in South African student, civics and trade union movements. He was a political violence mediator and area coordinator for the National Peace Committee during the multiparty negotiations for a democratic South Africa and was seconded to South Africa's Truth and Reconciliation Commission. He is the author of several number 1 bestsellers. His more recent books include: Restless Nation: Making Sense of Troubled Times (Tafelberg); and South Africa in BRICS – Salvation or Ruination (Tafelberg).

#### **Session organiser(s):**

Professor Vasu Reddy – 082 337 2057



**Science Forum South Africa 2020**

**“Still igniting conversations about science”**

**9-11 December 2020**

***Description of Parallel Sessions organised by Partners for Online Publication***

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|---|
| Session Title: Conversations with Global Thinkers: Professor Homi Bhabha and Professor Premesh Lalu |
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|                                  |                     |
|----------------------------------|---------------------|
| Date: Thursday December 10, 2020 | Time: 17.30 - 18.15 |
|----------------------------------|---------------------|

**Session Overview:**

In this closing session of the HSRC Radical Reason Conversations with Global Thinkers series, Professor Premesh Lalu will engage in a conversation with Professor Homi Bhabha around the future of subaltern thought and humanities.

This series of conversations seek to reflect on the full complexity of the lived experiences and conditions of being in the world now, staged from a place of difference and radicality. In such times – on the horizon of the emergence of a not yet fully determinable world – radical thought, science, ethics, institutional arrangements, and other shared systems of valuation and understanding, are required to give depth and meaning to the full articulation of the questions that we need to be asking now to engender the arrival of a just and equal world to come. No one discipline or system of thought can answer, or fully account for, the questions we are facing as humanity today. We call this, in short, the time for radical reason.

**Programme:**

Professor Homi Bhabha will be lead in a 45 minute conversation with Professor Premesh Lalu. Professor Jean Baxen will introduce the speakers and moderate the conversation.

**Moderator:**

**Professor Jean Baxen**

Professor Jean Baxen is Deputy Vice Chancellor: Academic and Professor at Sol Plaatje University, Kimberley, South Africa. She has served in leadership positions in a number of higher education institutions in the country and is the author of numerous research reports, peer-reviewed and accredited papers, and book chapters on aspects of education in South Africa. She is author of *Performative Praxis: Teacher Identity and Teaching in the Context of HIV/AIDS* (2010) and co-editor of the volume *HIV/AIDS in Sub-Saharan Africa: Understanding the Implications of Culture and Context* (2009). Jean Baxen is an active member of the education community in South Africa and internationally, and sits on a number of editorial boards, advisory committees, and review panels.

#### **Speakers:**

##### **Professor Homi Bhabha**

Professor Homi K. Bhabha is an Indian English scholar and critical theorist. He is the Anne F. Rothenberg Professor of English and American Literature and Language, and the Director of the Mahindra Humanities Center at Harvard University. He is one of the most important figures in contemporary post-colonial studies, and has developed a number of the field's neologisms and key concepts, such as hybridity, mimicry, difference, and ambivalence. Such terms describe ways in which colonised people have resisted the power of the coloniser, according to Bhabha's theory. In 2012, he received the Padma Bhushan award in the field of literature and education from the Indian government.

##### **Professor Premesh Lalu**

Professor Premesh Lalu is the previous Director of the DST-NRF Flagship Centre for Humanities Research at the University of the Western Cape, South Africa. After sixteen years in the Department of History as an Associate Professor, Lalu was awarded an Andrew W. Mellon Foundation grant to convene a fellowship programme on the Study of the Humanities in Africa. He was promoted to full professor upon being appointed as Director of the Centre for Humanities Research in 2008. Lalu has published widely with his writing appearing in newspapers and online platforms such as the Mail and Guardian, DailyMaverick, Africa is a Country, Business Day, The Cape Times as well as in edited publications. His book *The Deaths of Hintsa: Postapartheid South Africa and the Shape of Recurring Pasts* (2009) argues that a postcolonial critique of apartheid is necessary in order to forge a concept of apartheid that allows us to properly formulate a deeper meaning of the post-apartheid. He is co-editor of *Remains of the Social: Desiring the Post-Apartheid* (2017) and *Becoming UWC: Reflections, Pathways and Unmaking Apartheid's Legacies* (2012). Lalu is a board member of the Consortium of Humanities Centres and Institutes, former chairperson of the Handspring Trust for Puppetry in Education, and former trustee of the District Six Museum in Cape Town, South Africa. In 2019, Lalu was awarded a writing fellowship at the Humanities Long Room at Trinity College, Dublin where he worked on a forthcoming monograph titled *The Techne of Trickery: Race and its Uncanny Returns*.

#### **Session organiser(s):**

HSRC Consortium  
Rachel Adams – [radams@hsrc.ac.za](mailto:radams@hsrc.ac.za) / 081 474 5700



**Science Forum South Africa 2020**

**“Still igniting conversations about science”**

**9-11 December 2020**

***Description of Parallel Sessions organised by Partners for Online Publication***

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| Session Title: Rock   Water   Life - Ecology and Humanities for a Decolonial South Africa (Lesley Green) |
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|                                  |                      |
|----------------------------------|----------------------|
| Date: Thursday December 10, 2020 | Time: 18.30 to 19.30 |
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**Session Overview:**

In *Rock | Water | Life* Lesley Green examines the interwoven realities of inequality, racism, colonialism, and environmental destruction in South Africa, calling for environmental research and governance to transition to an ecopolitical approach that could address South Africa's history of racial oppression and environmental exploitation. Green analyzes conflicting accounts of nature in environmental sciences that claim neutrality amid ongoing struggles for land restitution and environmental justice. Offering in-depth studies of environmental conflict in contemporary South Africa, Green addresses the history of contested water access in Cape Town; struggles over natural gas fracking in the Karoo; debates about decolonizing science; the potential for a politics of soil in the call for land restitution; urban baboon management; and the consequences of sending sewage to urban oceans.

**Programme:**

Professor Green will give an overview of the book, followed by a short response from the respondent. Professor Heidi van Rooyen will chair the session and facilitate questions with the audience.

**Moderator:**

**Professor Heidi van Rooyen**

Professor Heidi van Rooyen is the Group Executive of the Impact Centre at the Human Sciences Research Council in South Africa. Prior to that, she led a multidisciplinary research group interested in the development of individuals over the life course with a focus on how diversity relating to race, gender and sexuality influence our lives. Heidi is a psychologist, social scientist and an accomplished and internationally recognized scholar. For more than two decades her work has addressed HIV risks and vulnerabilities as well as the broader contexts and inequalities that shape this risk. Her current research focuses on the influence of sexual orientation and gender identity as social determinants of health, and

issues of race and identity. Heidi is a certified life coach who balances the demands of leadership, publishing and grant writing with a regular contemplative writing practice and poetry.

**Speakers:**

**Professor Lesley Green**

Lesley Green is deputy director of Environmental Humanities South. She is Professor of Anthropology in the School of African and Gender Studies, Anthropology and Linguistics at the University of Cape Town, South Africa, and was a Fulbright Fellow at the Science and Justice Research Centre at U C Santa Cruz in 2018.

Her work focuses on the intersection of science studies, anthropology, philosophy and research methods in the Anthropocene. Her book on six fields of environmental management sciences in South Africa — *Rock | Water | Life: Ecology and Humanities for a Decolonising South Africa* — is currently in press with Duke University Press. Previous publications include *Contested Ecologies: Dialogues in the South on Nature and Knowledge* (HSRC Press 2013) and *Knowing the Day, Knowing the World* (Arizona University Press 2013).

**Session organiser(s):**

Rachel Adams – 081 474 5700



## Friday December 11, 2020 Parallel Sessions

Timeslot: 09:00 to 10:30



Science Forum South Africa 2020

“Still igniting conversations about science”

9-11 December 2020

***Description of Parallel Sessions organised by Partners for Online Publication***

Session Title: Research Excellence, Peer Review and Epistemic Justice

Date: Friday December 11, 2020

Time: 09:00 to 10:30

### **Session Overview:**

Peer review is the touchstone of academic rigor and excellence. It is not, however, a neutral and objective process. While for some, peer review poses problems of transparency, and may inhibit innovation and new ways of thinking, it also folds together with broader questions around what research excellence means in a postcolonial and decolonising context which encompasses the imperative to undo oppressive and hegemonic systems of knowledge that write over other forms of knowing. In this roundtable session, these questions around the meaning, validity and practicalities of peer review and research excellence in a post-colonial context will be discussed and explored.

### **Programme:**

0900-0910 = welcome, explanation of the way the session will work, introduce all three speakers  
0910-0920 = Keyan Tomaselli  
0920-0930 = Phila Msimang  
0930-0940 = Bridget Farham  
0940-0950 = Joel Modiri  
0950-1000 = questions and comments among chair and panellists  
1000- 1020 = questions from the chat box/Q andA  
1020-1030 = final remarks, thanks and acknowledgements

**Moderator:****Professor Jane Carruthers**

Emeritus professor Jane Carruthers is an environmental historian at the University of South Africa, where she pioneered the discipline. Her book *The Kruger National Park: A Social and Political History* has become a standard reference worldwide. Her research areas include environmental justice and the history of national parks, the origins of wildlife management and game ranching, land restitution issues, landscape design and ecology, heritage, cartography, and transnational history. Carruthers is widely published in books and scholarly journals. Her latest book is *National Park Science: A Century of Research in South Africa*. Jane is a member of numerous editorial boards and has been awarded a number of prizes. She is a fellow of the Royal Society of South Africa and member of the Academy of Science of South Africa, and past president of the Southern African Historical Society. Carruthers was named an honorary Carson fellow in December 2014 in recognition of her six years of service as the chair of the Academic Advisory Board. Jane is currently the Editor-in-Chief of the *South African Journal of Science*.

**Speakers:****Professor Keyan Gray Tomaselli**

Keyan G Tomaselli is Distinguished Professor, Dean's Office, Humanities, University of Johannesburg. He is also Professor Emeritus and Fellow, University of KwaZulu-Natal, and a Laureate Fellow. International Institute for Communicology. He is editor of *Critical Arts* and co-editor of *Journal of African Cinemas*.

**Dr Joel Modiri**

Dr Joel Malesela Modiri is the Acting Head of the Department of Jurisprudence from 1 October 2020 and promoted to Associate Professor (effective 1 January 2021) in the Department of Jurisprudence. He holds the degrees LLB cum laude (Pret) and PhD (Pret). Dr Modiri is the editor-in-chief of the *South African Journal on Human Rights (SAJHR)* and he also edits the Faculty's in-house occasional papers series, the *PULP Fictions*. He has been a Faculty member of Harvard Law School's Institute for Global Law and Policy Africa Regional Workshop held in Cape Town. He has also held a Visiting Fellowship at the Centre for Applied Legal Studies (CALS), University of the Witwatersrand and was selected as an Inaugural Fellow in the Atlantic Fellowship for Racial Equity Programme (2018-2019) hosted by Columbia University and the Nelson Mandela foundation. He was also awarded the 2019 Africa Oxford Law Visiting Fellowship. He is also a member of the Section 11 Committee on Equality at the South African Human Rights Commission and was an invited speaker at the 17th session of the United Nations Intergovernmental Working Group on the Effective Implementation of the Durban Declaration and Programme of Action (DDPA) (16-20 December 2019).

**Phila Msimang;**

Phila Msimang is a philosopher concerned with various questions within the philosophy of science. He works on the metaphysics of race and on pragmatic issues regarding the contested place of race concepts in the contemporary social and natural sciences. He also has interests in minimal cognition and the problem solving abilities of simpler organisms.

**Dr Bridget Farham**

BSc (Hons) (Durham) in Biology and PhD (Aberdeen) in population biology, followed by MBChB (University of Cape Town). After a couple of years in seabird research at the Percy Fitzpatrick Institute of African Ornithology, UCT, went on to study medicine at UCT. Spent some time overseas after graduating in 1991 in UK and Canada in primary health care. Returned to South Africa in December 1994 and worked at Groote Schuur, then for the City of Cape Town clinics on the Cape Flats. Left

clinical practice and started third career, initially medical writing for the lay person, then into biology and science text book editing and writing, and at the same time became editor of CME (Continuing Medical Education), and then editor of the South African Medical Journal. Currently: editor South African Medical Journal and consultant with the Health Emergencies Programme, Health Emergency Information and Risk Assessment, WHO Regional Office for Africa, Brazzaville.

Session organiser(s):

HSRC Consortium  
ASSAf / South African Journal on Science  
Rachel Adams – [radams@hsrc.ac.za](mailto:radams@hsrc.ac.za) / 081 474 5700

09:00 to 10:30 - South Africa – China Science Park Cooperation (*Embassy of China, The Innovation Hub*)  
Session Description not available





**Science Forum South Africa 2020**

**“Still igniting conversations about science”**

**9-11 December 2020**

***Description of Parallel Sessions organised by Partners for Online Publication***

Presented by: International Science Council, University of the Western Cape

|  |                      |
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| Session Title: African Platform for Science Advisors – Workshop on capacity building and COVID-19 policy responses   |                      |
| Date: Friday December 11, 2020   | Time: 09:00 to 10:30 |
| <p>Session Overview:</p> <p>This session complements to the session entitled <b>Building Capacity for an African Platform for Science Advisors</b>. The platform was initiated by the African Union Commission (AUC) and the International Science Council Regional Office for Africa (ISC ROA), in collaboration with other regional science-policy actors.</p> <p>This session is a 90-minute workshop with participants of the African Platform for Science Advisor. The session will comprise feedback on a survey of science advisors currently being conducted, which complements two other surveys conducted in 2020 by the International Network for Government Science Advice, Africa Regional Chapter [INGSA-Africa], namely the "2020 INGSA-Africa Consensus Report - The Evolving Science Advisory Landscape in Africa", and the "2020 Research Survey Report on the role of Scientific Knowledge in Policymaking: Scientist and Policymaker Perspectives".</p> <p>The session will also feature a discussion on the gap between science and science-informed advice and policy responses to the COVID-19 pandemic. This discussion is preceded by a previous virtual workshop on successes and challenges in science-informed policymaking in the current crisis and other experiences of science advisors. The outputs of the workshop will anchor the design of the African Platform for Science Advisors Capacity Building programme in real experiences of science advisors and respond to the gaps between the scientific community and evidence-informed policy decision making, While acknowledging the diversity of the science advice role across the African continent, the session will also seek to ensure real value of the platform to science advisors and thereby to its participating governments.</p> |                      |
| Opening remarks and presentation of the survey findings (15 minutes) – Prof. Carolina Odman  |                      |
| Discussion among participating science advisors (15 minutes)   |                      |

Presentation of the COVID-19 response successes and gaps from participants of the virtual workshop (20 minutes) – the presenters are still to be identified. Their presentations will represent the consensus of a previously held workshop where the focus will be on the COVID-19 responses and science advice.

Q&A (30 minutes)

Outcomes and Closing remarks (10 minutes) – Dr. Richard L.K. Glover

Total: 90 minutes

Moderator:

**Prof. Carolina Odman, Associate Director, Development and Outreach, Inter-University Institute for Data Intensive Astronomy, University of the Western Cape, South Africa.**

**Carolina Ödman** is Associate Professor at the University of the Western Cape, South Africa. She is Associate Director, Development and Outreach and the Inter-University Institute for Data Intensive Astronomy, working on topics in science for development. She is a member of the South African Council for Natural Scientific Professions (SACNASP), of the South African Institute of Physics and of the International Astronomical Union.

Speakers:

**Dr. Richard L.K. Glover, Programme Specialist, International Science Council Regional Office for Africa**

**Dr Richard L.K. Glover** is a biological scientist with a bias in Medical and Food Microbiology and focus on Antimicrobial Screening of Traditional Medicinal Plants/Products and Traditional African Fermented Food Processing. He is a member of the South African Council for Natural Scientific Professions (SACNASP) and the South African Society for Microbiology (SASM). He is the Regional Programme Officer (RPO) and member of the Steering Committee of the International Network for Government Science Advice (INGSA) Africa Chapter.

We also have a group of 32 science advisors from 12 African countries taking part in this project, many of whom will be on the call. The workshop format of the session means we will not assign talking time to all of them but will rather seek reactions from each in a moderated conversation as described above.

Session organiser(s): (Names of institutions and contact details of a contact person – URL links if relevant)

University of the Western Cape  
Prof. Carolina Odman  
[codman@uwc.ac.za](mailto:codman@uwc.ac.za)

International Science Council Regional Office for Africa  
Dr Daniel Nyanganyura  
[daniel.nyanganyura@council.science](mailto:daniel.nyanganyura@council.science)

Dr. Richard L.K. Glover  
[Richard.Glover@council.science](mailto:Richard.Glover@council.science)



**Science Forum South Africa 2020**

**“Still igniting conversations about science”**

**9-11 December 2020**

***Description of Parallel Sessions organised by Partners for Online Publication***

***Presented by the Embassy of Ireland***

|   |
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| Session Title: South Africa-Ireland Tech Challenge Launch |
|---|

|                        |                     |
|------------------------|---------------------|
| Date: 11 December 2020 | Time: 9:00 to 10:30 |
|------------------------|---------------------|

**Session Overview:**

The Embassy of Ireland, with the support of Enterprise Ireland and the Technology Innovation Agency (TIA), will officially launch a pilot *South Africa-Ireland Tech Challenge*. The call for this challenge will open in early 2021 and this event will highlight this opportunity for collaboration between tech entrepreneurs and SMMEs in Ireland and South Africa.

The tech challenge, and the collaborative partnerships it aims to incentivize, will focus on supporting innovation, technology development, and technology deployment/commercialisation through partnerships between Irish and South African tech entrepreneurs and ecosystems. In particular, the challenge will support partnerships that align strongly with Ireland and South Africa’s shared commitment to achieving the Sustainable Development Goals and will focus on thematic priorities such as climate solutions, women’s entrepreneurship, and innovation for the SDGs.

The event will include a presentation of the pilot *South Africa – Ireland Tech Challenge* followed by a broader discussion on opportunities for South Africa – Ireland technology partnerships for the SDGs.

**Programme:**

- 9:00 Welcome from the Ambassador of Ireland to South Africa
- 9:15 Address by Ireland’s Minister of State for Overseas Development Aid and Diaspora
- 9:20 Enterprise Ireland presentation
- 9:30 CEO Technology Innovation Agency

- 9:45 Facilitated discussion on South Africa Ireland technology partnerships for the SDGs
- 10:20 Concluding Remarks Fionnuala Gilsonan, Ambassador

**Moderator:**

Louisa Heneghan, Embassy of Ireland.

**Speakers:**

Minister of State for Overseas Development Aid and Diaspora, Mr Colm Brophy T.D.  
 Ambassador of Ireland to South Africa, Fionnuala Gilsonan  
 CEO of the Technology Innovation Agency  
 Department of Science and Innovation representative  
 Enterprise Ireland representative

**Session organizer(s):**

Elias Ledwaba, Embassy of Ireland,  
 Email: [Elias.Ledwaba@dfa.ie](mailto:Elias.Ledwaba@dfa.ie)

Louisa Heneghan, Embassy of Ireland  
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Science Forum South Africa 2020

“Still igniting conversations about science”

9-11 December 2020

*Description of Parallel Sessions organised by Partners for Online Publication*

*Presented by: Department of Science and Innovation*

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| Session Title: Showcasing of Africa's Agriculture Technologies |
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| Date: Friday December 11, 2020 |
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| Time: 09:00 to 10:30 |
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**Session Overview:**

To share lessons, experiences, methods, tools, and technologies to support continental agricultural development; creating and enabling environment for collaboration. It is envisaged that the event will allow for the creation of a consortium on agriculture Innovations, which could include representatives from the different agricultural sectors in the African Continent.

**Programme:**

- 09:00 to 09:10  
Opening Remarks  
Prof Moses Chao, CSIR's Advance Agriculture and Food Cluster
- 09:10 to 09:20  
Agricultural Innovations Policy support  
Dr Maneshree Jugmohan-Naidu, Director: Biotechnology, Department of Science and Innovation (DSI)
- 09:20 to 09:35  
Agricultural Innovations best practices by the South African Agricultural Research Council (ARC)  
  
Dr Cynthia Motsi, Senior Manager: Intellectual Property Management & Commercialisation
- 09:35 to 09:45  
Council for Scientific and Industrial Research (CSIR)'s capabilities on Precision agriculture, Agro-food processing and food safety.  
Prof Moses Cho, Council for Science and Industrial Research (CSIR)
- 09:45 to 10:00  
Vertical gardens to maximize food production,  
Ms Rachel Gakii, Mitsa Elengos Ltd, Kenya
- 10:00 to 10:15  
Using ICT-agricultural videos to inform farmers about good practices.  
Mr Mori Gouroubera, ISADA-Consulting, Benin
- 10:15 to 10:25  
Presentation of the portal on Sustainable Development Goals (SDG), which is accessible to African Innovators.,  
Ms Michelle Harding, Programme Manager, Hosted National Programmes, Council for Science and Industrial Research (CSIR),
- 10:25 to 10:30  
Creation of an Africa Agriculture Innovations Consortium,  
Ms Mmampei Chaba, Chief Director Multilateral Cooperation and Africa, Department of Science and Innovation.

**Moderator:**

Dr Petronella Chaminuka, Agricultural Research Council

Dr Petronella Chaminuka, is a researcher at the Agricultural Research Council, she is a specialist in agricultural and development issues. She has published in peer reviewed and non-peer reviewed media. Capacity building – training of trainers, facilitators/educators and farmers. Institutional development (facilitation of multi-stakeholder processes, gender mainstreaming in R & D).

**Speakers:**

**Ms Mmampei Chaba**, Chief Director, Multilateral Cooperation and Africa Ms Chaba's responsibilities include overseeing Science, Technology and Innovation (STI) Africa and Global multilaterals on behalf of the DST such as the Southern Africa Development Community (SADC), United Nations Educational, Scientific and Cultural Organization, she is also responsible for overseeing Bilateral Relationships with other Countries in the African Continent.

**Dr Maneshree Jugmohan-Naidu**, Director: Biotechnology, Department of Science and Innovation (DSI) coordinates key strategies and programmes in agricultural biotechnology/bio-economy, including international/bilateral cooperation, and the development of an enabling and conducive environment for responsible biotechnology in South Africa. She has been involved in management of research including

policy and governance at the national level for the past 10 years. Prior to joining the DST, Maneshree worked for the Department of Agriculture, Forestry and Fisheries (National), the NHLS and the Nelson Mandela School of Medicine (UKZN).

**Ms Bridget Murovhi**, Director: International Cooperation, Agricultural Research Council (ARC) is the Director responsible for establishing and managing agricultural related International relationships.

**Prof Moses Azong Chao** is the Precision Agriculture research group leader at the Council for Scientific and Industrial Research (CSIR) and a professor with the plant and soil science department, University of Pretoria. He holds a Ph.D. degree in remote sensing of vegetation from Wageningen University and the International Institute from Geoinformation Science and Earth Observation, Netherlands. His research focus involves developing Earth Observation tools and applications that support planning and decision making for precision agriculture and biodiversity conservation.

**Ms Michelle Harding** is the Programme Manager, Hosted National Programmes, Council for Science and Industrial Research (CSIR). Part of her responsibilities include management of the SDG portal.

**Ms Rachel Gakii**, is the Chief Executive Officer of Mitsa elengos Ltd, a company that focuses on the use of Vertical gardens through the use of locally made grow bags that maximizes food production in Kenya.

**Mr Mori Gouroubera**, is the CEO of ISADA-Consulting, a company whose main focus is on social enterprise that focuses on empowering smallholder farmers in lowering the barriers of access to agricultural good practices and innovations in Benin.

**Mr Olaremaju Babatunde Emmanuel**, is the Head of Futux Agri-Consult Limited, a knowledge driven agricultural consulting and agribusiness verification firm, aimed at providing cutting edge agricultural solutions to clients with a bias for food safety and consumer protection as well as verifying third party agribusinesses investment companies in Nigeria.

**Session organiser(s):**

Sikhonzile Sikhosana, Palesa Tshabalala and Quinzee Booyesen, Africa Bilateral Cooperation at the Department of Science and Innovation.



**Science Forum South Africa 2020**

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**9-11 December 2020**

***Description of Parallel Sessions organised by Partners for Online Publication***

**Presented by: Department of Science and Innovation**

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| Session Title: Strengthening Africa’s Medicine Manufacturing Capacity |
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|--------------------------------|----------------------|
| Date: Friday December 11, 2020 | Time: 09:00 to 10:30 |
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**Session Overview:**

One of Africa’s contributing factors to its mortality rate is due to lack of medication especially with Africa’s major diseases such as malaria, HIV and Tuberculosis. Africa only manufactures 2% of its medicine compared to the rest of the world and depends on pharmaceutical imports. This translates to unaffordability and lack of access for Africa’s population. According to the World Health Organisation (WHO), access is defined as continuously having medicines that are available and affordable at health facilities that are within an hour’s walk of proximity. With less than 2% medicines being produced locally and rural areas, where there’s lack of proper health facilities, constituting most of Africa’s cities and towns, this places Africans at a disadvantage, in relation to access and affordability.

Approximately 80% of Africa’s population rely on public health facilities. This is an enormous hindering factor considering the lack of resources and capacity in the continent’s public health system. A recurring shortage of drugs have become and chronic condition. The lack of capacity has been catalyzed by the lack of skilled health workers, with Africa’s public health sector losing its skilled labour to the private sector and developed world. The lack of capacity also extends itself to the lack of investment in research and development (R&D) for pharmaceutical production.

As such, there is an urgent need to strengthen Africa’s medicine manufacturing capacity as the continent has witnessed the impact of a lack of capacity. This was the reality in 2014 with the outbreak of the Ebola virus and has resurfaced as a continuous gap with the coronavirus pandemic. In terms of manufacturing, limited capacity has often meant dependence on foreign support as exemplified by production capacities that were not enough to manufacture personal protective equipment and ventilators. COVID-19 has become the catalyst for a sense of urgency for Africa to begin its strategy towards developing its Medicines Manufacturing Sector.

**Programme:**

**1. The Current State of Africa's Medicine Manufacturing Sector**

- Lessons from Medicine Manufacturing Countries in the Continent

**2. A look at the gaps and what needs to be done**

- Strengthening the Human and Institutional Capacities of Medical Laboratories in the Continent
- Building and Strengthening the Continent's Medicine Manufacturing Capacities, Standards and Quality Assurance for African Manufacturing
- The Role of Pharmaceuticals
- The role of the Private Sector

**3. Way Forward**

**Moderator:**

TBC

**Speakers:**

TBC

**Session organiser(s):**

Tinyiko Ntshongwana (0718547185)  
Zimasa Nqabeni ([zimasa.nqabeni@dst.gov.za](mailto:zimasa.nqabeni@dst.gov.za))



**Science Forum**  
SOUTH AFRICA



**Science Forum South Africa 2020**

**“Still igniting conversations about science”**

**9-11 December 2020**

***Description of Parallel Sessions organised by Partners for Online Publication***

Presented by: Water Research Commission

Session Title: Showcasing IORA water quality and health research, development, and innovation (RDI) excellence and partnership opportunities

Date: Friday December 11, 2020

Time: 09:00 to 10:30

**Session Overview:**

Water pollution by emerging substances of concern has become an important research topic globally over the past few decades, amidst growing concerns of water scarcity. Emerging substances of concern can either be of chemical and/or biological (pathogenic) nature. Various studies have shown that these emerging substances of concern are present in water sources, highlighting an urgent need for these to be managed. The session will focus on Research Development and Innovation (RDI) programmes focused on managing Contaminants of Emerging Concern (CECs). These chemicals pose a threat as they can pass through the municipal systems undetected, as most water and sanitation systems do not have the ability to detect and manage these. Secondly, the health effects of these chemicals and their by-products, albeit in trace amounts over a long period, have not been studied on human beings as well as the environment. It is known however, that these chemicals can cause adverse health effects to the environment and human beings.

The session will serve as a platform to share knowledge and best practices on the detection of CECs in water; understanding their effects on environmental and human health; potential strategies for their treatment and removal in water; and best practices for regulating and managing CECs within IORA countries in order to safeguard environmental and public health. The session also aims to incite interest for IORA partner collaboration in addressing water quality and health challenges. The collaborations could be led by the WRC as the IORA Water and Sanitation, Innovation and Tech Transfer Coordination Centre. Lastly, the session aims to influence the prioritisation of water quality and health as a key topic for IORA MS and DP collaborations.

**Programme:**

**Facilitator: Dr Mamohloding Tlhagale**

| <b>Activity</b>  | <b>Presenter</b>                                   | <b>Time (min)</b> |
|--|--|-------------------|
| Opening address  | WRC TBC  | 5                 |
| DWS remark on water and health in South Africa: importance of access to quality water and programmes on combating water related diseases | TBC  | 5                 |
| DOH remark on the prevalence of water related diseases in the country  | TBC  | 5                 |
| SAMRC (Link between water and Health)  | MRC to assist (Tbc)                                | 5                 |
| SA WRC (RDI programmes on water and health)  | Prof Stanley Liphadzi (Tbc)                        | 7                 |
| Sri Lanka water and health RDI projects and strategies   | IORA to identify (Tbc)                             | 7                 |
| Iran water and health RDI projects and strategies  | IORA to identify (Tbc)                             | 7                 |
| Mauritius water and health RDI projects and strategies   | IORA to identify (Tbc)RA to identify (Tbc)         | 7                 |
| Turkey water and health projects and strategies  |  | 7                 |
| Q&A  |  | 10                |
| Panel discussion<br>Topic - Water and health national programmes and strategies: focus on water, health and disaster management          | SA, Dr Nonhlanhla Kalebaila plus 4 other MS and DP | 20                |
| Summary of key session reflections and closure.  | Mr Tiyani Chauke                                   | 5                 |

**Moderator:**

**Dr Mamohlodig**

Mamohlodig is the Head of International and Stakeholder Engagement at the Water Research Commission (WRC) of South Africa with the broad responsibility of driving the WRC International and Stakeholder Engagement Strategies ensuring integration and value add in the WRC business. Prior to joining the WRC, Dr Tihagale was the Director for Strategic Partnerships at the Department of Science and Innovation (DSI) where her role was to establish strategic partnerships and leverage international resources to strengthen South Africa's science and technology capacities. Dr Tihagale's expertise includes, programme and project management, policy development and implementation, and international relations to name a few.

**Speakers:**

- Department of Water and Sanitation (DWS): TBC upon approval of session
- Department of Health (DOH): TBC upon approval of session.
- South African Medical Research Council (SAMRC).

**Prof Stanly Liphadzi**

Dr Liphadzi is the Group Executive Manager of Research & Development at the Water Research Commission (WRC) of South Africa. He is also an Adjunct Professor at the University of Venda. Dr Liphadzi holds a PhD in Biological Engineering from Kansas State University, an MSc (Agronomy) from the University of Pretoria, and a Master of Business Leadership (MBL) from the University of South Africa. He has previously worked as a University Lecturer, Development Manager, Research Manager, and Executive Manager. Dr Liphadzi has authored/co-authored over 27 peer reviewed publications. He has also served on the boards of various organisations, including the Sci-Bono Discovery Centre and the South Africa National Biodiversity Institute (SANBI).

- Sri Lanka, representative, TBC upon approval of session

- Iran representative, TBC upon approval of session
- Mauritius representative, TBC upon approval of session
- Turkey representative, TBC upon approval of session

**Dr Nonhlanhla Kalebaila**

Dr Nonhlanhla Kalebaila is a Research Manager at the Water Research Commission, leading and managing a portfolio of research on domestic water supply, drinking water treatment and water quality. Dr Kalebaila holds a PhD in Chemical Technology, specialising in water utilisation. Her areas of expertise lie around integrated water resources management, water treatment technology and quality, environmental science and awareness, waste management and resource recovery. Amidst the course of her professional career, she has also worked in the fields of environmental science, applied science, biochemistry, microbiology and nuclear technology. She has authored and co-authored several peer reviewed research papers, including original research papers, a book chapter and conference articles.

**Session organiser(s):**

Mr Tiyani Chauke (WRC), Dr Mamohloding Tlhagale (WRC) and Ms Nicole du Plessis (IORAG) and Dr Nonhlanhla Kalebaila (WRC).

Contact Person: Mr Tiyani Chauke, email: [tiyanic@wrc.org.za](mailto:tiyanic@wrc.org.za)  
Ms Nicole du Plessis, email: [iora.ag.sa@gmail.com](mailto:iora.ag.sa@gmail.com)





**Science Forum South Africa 2020**

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**9-11 December 2020**

***Description of Parallel Sessions organised by Partners for Online Publication***

Presented by: Academy of Science of South Africa

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| Session Title: Science, Technology, and Innovation Diplomacy Forum |
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|                                |                      |
|--------------------------------|----------------------|
| Date: Friday December 11, 2020 | Time: 09:00 to 10:30 |
|--------------------------------|----------------------|

**Session Overview:**

The COVID-19 pandemic has propelled talks about health diplomacy engagements and its importance today. Health diplomacy embodies intergovernmental negotiations aimed at managing and shaping the global policy sphere for health. Global health diplomacy has over the years gained traction as a practice by which governments and non-state actors attempt to coordinate global policy solutions to improve global health. Global health diplomacy integrates several disciplines i.e. public health; international relations; management; law; economics and trade policy. Africa has previously suffered a great deal in managing outbreaks of infectious diseases like Ebola and HIV/AIDS, but the COVID-19 pandemic has changed the world at large. Diplomatic negotiations were in the past solely a function undertaken by government diplomats. The dynamics of these negotiations has shifted, to involve a multiplicity of actors and diverse stakeholders not limited to state representatives. They occur at various venues, are formal and informal in nature, at diverse levels of authority. The COVID-19 pandemic has exposed the power and key roles played by non-state actors who command large amounts of resources, particularly financial.

Against this background the DSI in collaboration with ASSAf will host a webinar focused on Health Diplomacy during pandemics. It is envisaged that key partners such as the World Health Organisation Regional Office for Africa (WHO-AFRO), the African Academy of Sciences (AAS), The World Academy of Science TWAS Sub-Saharan Africa Regional Partner (TWAS-SAREP), the South African Medical Research Council (SAMRC), the African Union Specialised Technical Committee on STI and Education, and others that are relevant in the health diplomacy and science advice space in Africa will deliberate on best practices for managing pandemics.

**Programme:**



Draft  
Programme.docx

#### Moderator:

**Mr Stanley MAPHOSA** is the International and National Liaison Manager of the Academy of Science of South Africa (ASSAf). He is also the Regional Coordinator of The World Academy of Science (TWAS) sub Saharan Africa Regional Partner (SAREP). Stanley leads ASSAf's Overseas Strategic Partnerships, Member Liaison, Overseas Collaborations, African Collaborations, Gender in Science Technology and Innovation as well as the Young Scientist Liaison. Stanley and his team work to establish relations and maintain existing ones at bilateral and multilateral levels. He is a science diplomat who conducts training in that area, a science communicator, science adviser and science advocate. Stanley's work also includes providing leadership and guidance to the South African National Chapter of the Organisation for Women in Science for the Developing World (OWSD), the South African Young Academy of Science (SAYAS) and support for the hosting of the International Science Council Regional Office for Africa (ISC-ROA).

#### Speakers:

**Dr Jeffrey MPHABLELE** (PhD, MASSAf) is the Vice President for Research at the South African Medical Research Council (SAMRC) since October 2014, the largest African science council dedicated to funding and conducting health research. Jeffrey is an elected member of Academy of Science of South Africa (ASSAf) and National Research Foundation C1 rated researcher. He is affiliated to Sefako Makgatho Health Sciences University (formerly MEDUNSA) in Pretoria where he previously served as an academic for over 20 years in various capacities: Professor and Academic Chair of the Department of Virology and National Health Laboratory Service (2005 to Sep 2014); Co-Director of the SAMRC/Diarrhoeal Pathogens Research Unit, which is a WHO Rotavirus Regional Reference Laboratory for Africa (2010 to March 2018) and Head of the South African Vaccination and Immunisation Centre (SAVIC) (2005 to 2014). Jeffrey's research interests included epidemiology of HIV, genomics of infectious diseases, vaccination control of infectious diseases (hepatitis B, rotavirus and human papillomaviruses) and strengthening immunisation services and policies. He trained, supervised and mentored several PhD and Master students as contribution to developing the next generation of scientists. He serves on number of governance and advisory structures and committees including the General Assembly of the European and Developing Countries Clinical Trials Partnership (EDCTP), Global Research Collaboration for Infectious Disease Preparedness (GloPID-R), South African Health Products Regulatory Authority (SAHPRA), WHO Scientific Advisory Group of Experts (SAGE) Polio Working Group, South African NITAG (National Advisory Group on Immunisation - NAGI) and South African National Task Force (NTF) for Laboratory Containment of Poliovirus.

**Professor Steven FRIEDMAN** is Research Professor in the Humanities Faculty of the University of Johannesburg. He is a political scientist who has specialized in the study of democracy. He researched and wrote widely on the South African transition to democracy both before and after the elections of 1994 and has, over the past decade, largely written on the relationship between democracy on the one hand, social inequality and economic growth on the other. In particular, he has stressed the role of citizen voice in strengthening democracy and promoting equality. He is the author of Building Tomorrow Today, a study of the South African trade union movement and the implications of its growth for democracy, and the editor of The Long Journey and The Small Miracle (with Doreen Atkinson), which presented the outcome of two research projects on the South African transition. His current work focuses on the theory and practice of democracy and his study of South African radical thought Race, Class and Power: Harold Wolpe and the Radical Critique of Apartheid was published in 2015. He writes a weekly column in Business Day on current political and economic developments.

**Dr. Philani MTHEMBU** is Executive Director at the Institute for Global Dialogue, an independent foreign policy think tank based in Tshwane (Pretoria), South Africa. Prior to joining the IGD, he pursued a joint doctoral programme (Dr. rer. pol.) with the Graduate School of Global Politics, Freie Universität Berlin (Germany), and the School of International Studies at Renmin University, Beijing (China). The focus of his dissertation was on the rise of emerging powers as sources of development cooperation in Africa, for which he was awarded Magna Cum Laude. He co-founded the Berlin Forum on Global Politics (BFoGP), a non-profit organisation dedicated to the promotion of academic, expert and public understanding of global politics. While completing his Masters in International Relations at the University of the Witwatersrand, Johannesburg, he headed the Academic Development Programme for first-year students and was elected as the first independent candidate to the Student Representative Council (SRC). His recent publications include a single authored book titled 'China and India's Development Cooperation in Africa: The Rise of Southern Powers', a co-edited book titled 'From MDGs to Sustainable Development Goals: The Travails of International Development', and a co-edited book titled 'Africa and the World: Navigating Shifting Geopolitics'.

**Ms Jackie KADO** is the Executive Director of the Network of African Science Academies (NASAC) secretariat based in Nairobi, Kenya. NASAC is a consortium of science twenty-eight science academies in Africa, with a membership drawn from all spheres of science. Her role ensures that NASAC activities are implemented in a coordinated and timely manner, and that secretariat functions are executed optimally. She has served science academies in various capacities since the establishment of NASAC in 2001. Mrs. Kado holds a Masters of Arts Degree in Project Planning and Management from the University of Nairobi (UoN) and a Bachelors Degree in Education in Mathematics and Commerce, also from UoN. Her specialization is project management for policy in science and she has close to twenty years of experience working with scientists in Africa. She is an astute believer in home-grown solutions that enable Africa overcome its challenges and realize its potential. Besides her role at NASAC, she also provides input to a number of African initiatives and serves on the several national and international Committees.

**Dr. Charles FB NHACHI** is a Professor of Clinical Pharmacology and toxicology in the Department of Clinical Pharmacology at the University of Zimbabwe. He is also the President of the Zimbabwe Academy of Science (ZAS), the Chairman of the Medical Research Council of Zimbabwe (MRCZ), as well as the Editor-In chief of the Journal of Applied Science in Southern Africa (JASSA).

**Prof Oyewale TOMORI** immediate past President, Nigerian Academy of Science, was the pioneer Vice-Chancellor (2004-2011), at the Redeemer's University, Nigeria. He is a Fellow of the Royal College of Pathologists (UK), Nigeria Academy of Science and Nigeria College of Veterinary Surgeons and a recipient of the Nigeria National Order of Merit (NNOM), Nigeria's highest award for academic, intellectual attainment and national development. He is an international member of the US National Academy of Medicine. Professor Tomori has served and currently serves on several national and international advisory bodies: Nigeria National Task Force on Epidemic Diseases; Expert Working Group (EWG) for the Development of National Laboratory Services Policy; Nigeria Expert Review Committee (ERC) on Poliomyelitis Eradication and Routine Immunization. At the international level, Dr. Tomori is a member of the US-IOM Committee on Sustainable Global Surveillance of zoonotic diseases; US-IOM Committee on identifying and prioritizing new preventive vaccines for development; WHO Africa Regional Certification Committee (ARCC) for Poliomyelitis Eradication; WHO Advisory Committee on Variola Virus Research; WHO Strategic Advisory Group of Experts (SAGE); Co-Chairman, African Science Academies' Study Team on Country Ownership of Africa's Development – Post 2015 plan on MDGs. He is a Senior Editor of African Journal of Laboratory Medicine (AJLM). He also serves on the Board of Network of African Science Academies (NASAC). He is one of the 15 Commissioners and Vice Chairman of the Commission on Creating a Global Health Risk Framework for the Future recently appointed by the World Bank, Rockefeller Foundation, Bill & Melinda Gates Foundation and the US National Academy of Medicine. The Commission's Report recommended an effective global architecture for recognizing and mitigating the threat of epidemic infectious diseases. He is a member of the World Bank IWG on Financing

Preparedness and Response. Dr. Tomori is an international member of the US National Academy of Medicine. Dr. Tomori has been Guest Speaker at numerous national and international conferences, and has authored/co-authored more than 140 publications in peer-reviewed journals. He has a passionate believe in the ability of Africa to solve her problems with domestic resources. He is a prolific commentator on public issues, especially on education, science and good governance.

**Session organiser(s):**

Academy of Science of South Africa  
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Department of Science and Innovation  
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