



# 5<sup>TH</sup> AFRICAN SPACE GENERATION WORKSHOP

BUILDING A SELF-SUSTAINING AFRICAN SPACE SECTOR

26 – 27 NOVEMBER 2021 | SOUTH AFRICA



## PROVISIONAL PROGRAMME, FRIDAY 26<sup>TH</sup> NOVEMBER 2021

08:30 – 09:15

Doors Open & Onsite Registration

09:15 – 09:55

Welcoming Speech & Opening Remarks

### Ms. Leehandi De Witt

5th AF-SGW Event Manager & former SGAC NPoC for South Africa



Leehandi has been working in the South African space industry for the better part of 8 years, first as a business development consultant to the SCS Aerospace Group, and currently as Head of Sales and Marketing for the satellite component manufacturer, NewSpace Systems. Leehandi is also a Policy Adviser to various international organisations and recently completed her term as SGAC National Point of Contact for South Africa.

### Mr. Maheen Parbhoo

5th AF-SGW Deputy Event Manager & current SGAC NPoC for South Africa



Maheen is currently the co-NPoC for South Africa and national promoter for the World CanSat Rocketry Championship (WCRC). He also serves as a teaching assistant (for engineering physics) and research scientist at the University of Witwatersrand in Johannesburg. Maheen has a strong background in space science along with research interests centred around the development of a novel propulsion system for small satellites.

### Ms. Rania Toukebri

SGAC Regional Coordinator for Africa



Rania currently works on the architecture of spacecrafts and the design of crypto units as well as verification and integration management of Spacecraft systems and sub-systems. She is also Regional Coordinator for Africa at the SGAC, external expert working with the European Commission, supports UN COPUOS technical subcommittee meetings, is a UNOOSA Space for Women Mentor and CEO for the organisation Todaers.

### Mr. Tensae Alemayehu Ali

SGAC Regional Coordinator for Africa



Tensae is a final year Mechanical Engineering student at Mekelle University, Vice chairman of the Ethiopian Space Science Society (ESSS)-Mekelle Branch and Regional Coordinator for Africa at the Space Generation Advisory Council. He earned his dual honors degree through a joint program of Mekelle University and Thomas More University of Applied Sciences which covered a unique curriculum called Moonshot-Ethiopia starring on Innovation, Creativity, and Entrepreneurship.

### Mr. Ntoshane Mohlamonyane

Strategic Manager to the CEO at South African National Space Agency



Ntoshane “Ntosh” has over 15 years of professional experience in strategic projects, business advisory and communications, business development and leadership with private sector companies and public sector organisations. He has a Master of Business Administration (MBA), is an alumnus of the International Space University in Strasbourg, France, and prior to joining SANSa, was the Head of Strategic Delivery for Africa at UK Government’s Department for International Trade (DIT). While there he was responsible for the development and implementation of a multi-year Trade and Investment strategy across African markets.



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09:55-10:30	<p><b>Keynote Speaker</b></p> <p style="text-align: center;"><b>Dr. Timiebi Aganaba</b> <i>'Issues in the Emerging Space 5.0 Era'</i></p>  <p>A Space Law and Governance expert, with 15 years of sector experience gained in academia, government, non-profit, think tank, law firm and consulting industries across 5 countries. Dr. Timiebi is an assistant professor of Space and Society, in the School for the Future of Innovation in Society, an affiliate faculty with the Interplanetary Initiative, a senior global futures scientist with the Global Futures Lab, and holds a courtesy appointment at the Sandra Day O'Connor College of Law at Arizona State University. She is currently on the Advisory Board for the Space Generation Advisory Council and is also on the Science Advisory Board of World View Enterprises and the SETI Institute. She is currently a senior fellow at the Centre for International Governance Innovation (CIGI) based in Waterloo, Ontario Canada.</p> <p> <b>ASU College of Global Futures</b> Platinum Sponsor of the 5<sup>th</sup> AF-SGW</p>
10:30-10:50	<p><b>Industry Expert</b></p> <p style="text-align: center;"><b>Mr. Meshack Kinyua Ndiritu</b> African Union Space Applications Training Officer, Space Systems &amp; Satellite Advisor <i>'African Space Agency Agenda 2063'</i></p> 
10:50-11:10 <b>Coffee &amp; Tea Break</b>	
11:10-12:00	<p><b>Panel Discussion: Fostering a Self-Sustaining African Sector: Regional Space Agencies Perspective</b></p> <div style="display: flex; justify-content: space-around; align-items: flex-end;"> <div style="text-align: center;">   <b>Mr. Ntosh Mohlamonyane</b> - Moderator Strategic Manager to the CEO at SANSA         </div> <div style="text-align: center;">   <b>Mrs. Beza Tesfaye</b> General Manager at Ethiopian Space Science Society         </div> <div style="text-align: center;">   <b>Dr. Djamel Darfilal</b> Senior Researcher at Satellite Development Center, Algerian Space Agency         </div> <div style="text-align: center;">   <b>Mr. Marco Romero</b> Ballistic and Navigation Satellite Specialist and Space System Engineer at the Angolan Space Program         </div> <div style="text-align: center;">   <b>Mr. Georges Kwizera</b> Chief Technology Officer at Rwanda Space Agency         </div> </div>
12:00-13:00 <b>Lunch</b>	
13:00-13:20	<p><b>Industry Expert</b></p> <p style="text-align: center;"><b>Prof. Robert Van Zyl</b> AAC Space Africa Managing Director &amp; former Director of CPUT Satellite Programme <i>'From Academia to Industry: Lessons Learnt'</i></p> 
13:20-13:40	<p><b>Industry Expert</b></p> <p style="text-align: center;"><b>Ms. Carla Sharpe</b> SKA Africa Programme Manager &amp; Director of the Foundation for Space Development <i>'Funding Tomorrows Technology'</i></p> 
13:40-15:40	<p><b>Working Groups: Break Away Session 1</b></p> <p><b>Working Group (1): Technology</b> – room: TBD [Moderator: Hendrik Burger, SANSA Chief Engineer]  <b>Working Group (2): Entrepreneurship</b> – room: TBD [Moderator: Mike-Alec Kearney, CubeSpace CEO]  <b>Working Group (3): Policy</b> – room: TBD [Moderator: Nompumelelo Nzimande, Policy and Legal Officer Lawspace Africa]  <b>Working Group (4): Capacity Building</b> – room: TBD [Moderator: Ms. Judi Sandrock, Space STEM Programs at MaxIQ.Space]</p>
15:40-16:00 <b>Coffee &amp; Tea Break</b>	

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16:00-17:00	<p><b>Panel Discussion: Entrepreneurship in the Regional Context</b></p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">   <b>Ms. Leehandi de Witt</b>            Moderator         </div> <div style="text-align: center;">   <b>Ms. Kim Macharia</b>            Chair of the Board of Directors at Space Frontier Foundation         </div> <div style="text-align: center;">   <b>Mr. Davis Cook</b>            CEO of RIIS &amp; Non-Executive Director ZASpace         </div> <div style="text-align: center;">   <b>Ms. Jessie Ndaba</b>            Co-Founder &amp; Managing Director of Astrofica         </div> <div style="text-align: center;">   <b>Mr. Mike-Alec Kearney</b>            Co-Founder and CEO of CubeSpace Satellite Systems         </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 20px;"> <div style="text-align: center;">   <b>Dr. Corné Eloff</b>            Chief Operations Officer, Pinkmatter         </div> <div style="text-align: center;">   <b>Ms. Ana-Mia Louw</b>            General Manager, Simeria Sense         </div> <div style="text-align: center;">   <b>Mr. Temidayo Oniosun</b>            Managing Director, Space in Africa         </div> </div>
17:00-17:30	Closing Remarks & Group Photo [close of Day 1]
18:00-20:00	Optional Networking Event [not included in registration cost]
PROVISIONAL PROGRAMME, SATURDAY 27 <sup>TH</sup> NOVEMBER 2021	
08:45-09:20	Doors Open & Onsite Registration
09:20-09:40	<p><b>Industry Expert</b></p> <div style="display: flex; align-items: center; justify-content: center;">  <div style="text-align: center;"> <b>Mohamed Mbarouk</b>            Engineer, Business Development and Strategy, StarLab Oasis  <i>'Engineering the Future'</i> </div> </div>
09:40-10:00	<p><b>Industry Expert</b></p> <div style="display: flex; align-items: center; justify-content: center;">  <div style="text-align: center;"> <b>Dr. Adriana Marais</b>            Theoretical physics PhD, Technologist &amp; Founder of Proudly Human  <i>'Becoming Interplanetary'</i> </div> </div>
10:00-10:50	<p><b>Panel Discussion: Adapting and Applying Space Technology to the Benefit of Africa</b></p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">   <b>Mrs. Gabriella (Denner) Janse van Rensburg - Moderator</b>            Applied Geoscience Remote Sensing Scientist, Council for Geoscience         </div> <div style="text-align: center;">   <b>Prof. Adriaan van Niekerk</b>            Director at Centre for Geographical Analysis (CGA) and full-time professor at Stellenbosch University         </div> <div style="text-align: center;">   <b>Mrs Janusha Singh</b>            GISc Professional Practitioner, Owner of Wanscan Consulting, NED-ZASPACE &amp; National Chair - Geographic Information         </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 20px;"> <div style="text-align: center;">   <b>Mr. Seth Nyawacha</b>            Geomatics application Expert at Locatell         </div> <div style="text-align: center;">   <b>Mr. Mark Thompson</b>            Director (Land &amp; Water Resource Mapping) at GeoTerraImage         </div> <div style="text-align: center;">   <b>Dr Martin Snow</b>            SANSA SHARCHI Research Chair for Space Weather Society SA         </div> </div>
10:50-11:10	Coffee & Tea Break

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11:10-11:30	<p>Industry Expert</p>  <p><b>Ms. Gladys Magagula</b> Project Manager, South African National Space Agency <i>'Developing Africa's Infrastructure'</i></p>
11:30-13:00	Working Groups: Break Away Session 2
13:00-14:00	Lunch
14:00-16:00	Working Group Presentations
16:00-16:30	<p>Keynote Speaker</p>  <p><b>Dr. Minoo Rathnasabapathy</b> Research Engineer, Massachusetts Institute of Technology <i>'Enabling Africa'</i></p> <p>Minoo is a Research Engineer within the Space Enabled Research Group at the MIT Media Lab. In this role, she helps coordinate projects in collaboration with international development organizations, governments and companies to apply space technology in support of the United Nations' Sustainable Development Goals. She also leads efforts in designing and developing the Space Sustainability Rating (SSR) in collaboration with the World Economic Forum and ESA. Prior to joining Space Enabled, Minoo served as the Executive Director of the SGAC and earned her PhD in Aerospace Engineering from RMIT University. She serves as a Vice President on the Bureau of the International Astronautical Federation (IAF) and is a member of the World Economic Forum Global Future Council on Space.</p>
16:30-17:00	Competition Announcements [Basia Nasiorowska & Judi Sandrock] & Concluding Remarks [Close of Day 2]

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