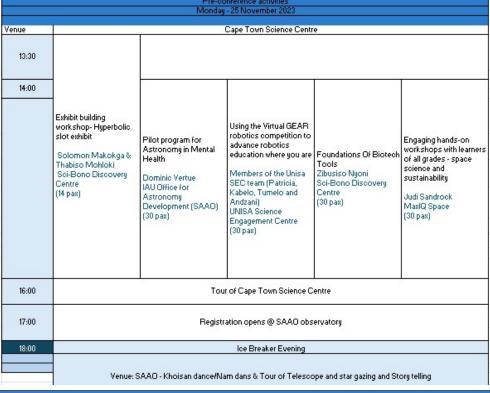
25th SAASTEC Annual Conference 25-28 November 2024











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Day 1				
		Tuesday - 26 November 2024		
		Plenary		
	Chair: Prof Mfanelo Ntsobi	Venue: Lillibloom		
08:00-08:30	Registration			
09:00-09:15	Welcoming remarks	Dr Rosalind Skelton	SAAO- Acting MD	
09:15-09:45	DSTI Minister opening address	Ms Nomalungelo Gina	DSTI Deputy Minister	
09:45-10:05	Chairman address	Prof Rufus Wesi	SAASTEC Chair	
10:05-10:30	Message of support by SAATSA	Dr Mamoeletsi Mosia	MD - NRF- SAASTA	
10:30-11:00		Tea break		
		Plenary		
	Chair: Prof Rufus Wesi	Venue: Lillibloom		
11:00-11:25	The South African Public Relationship with Science	Dr Vijay Reddy and Isaac Ramovha.	DSTI	
11:25-11:30		Q&A	•	
11:30-12:15	Key note address: The Value of Science Centre and Museum Experiences	Dr John H Falk	Institute for Learning Innovation, USA	
12:15-12:30	Q & A / Logistics			
12:30-13:30		Lunch Break		
		Break away		
Venue	Lillibloom	Boulevard	Duncan	
Chair:	Chair: Sihle Shange	Chair: Kabelo Pheeha	Chair: Pumza Tshebe	
13:30-13:45	Why camels are not horses designed by a committee	Enhancing Learning Through Project-Based AI Education: An Exploration of Implementation Challenges and Recommendations for Integration into the Gauteng School	Water Quality Indices(Water quality Monitoring) - case study of the St Marks Area: Involvement of the community, schools in water monitoring.	
	Mike Burton, Formula D	Anele Davids, Sci-Bono Discovery Centre	Athi Bavuma, Luvo Kewuti and Okuhle Gwadiso, Thumeka Tiwani, Albertina Nontsikelelo Sisulu Science Centre	
13:45-14:00	Developing Science Clubs as Feeders for Future Research	Innovative Science Engagement at the UFS Sci-Ed Science Education Centre.	Users vs developers of technology: Africa Perspective	
	Daniel Motsapi, ArcelorMittal Science Centre Sebokeng	Dr Cobus van Breda, Sci-Ed Science Education Centre, UFS	Sakhile Masango, ArcelorMittal Science Centre, Newcastle	
14:00-14:15	Engaging public curiosity through astronomy	Outreach for blind and visually impaired learners: A journey to "see" Earth and space differently	Why Hazyview Centre for Mathematics science and Technology was established	
	Mrs Mariette Erwee, Sci-Ed Science Education Centre	Dr Tanja Reinhardt, STEC@UKZN	Doctor Manzini, Hazyview Centre for Mathematics and Technology	

14:15-14:30	Bridging Science and Society: Engaging Communities Through Astronomy and STEM	Understanding your immediate community through research	Developing an Intelligent Homework Assistance System: Analysing the Impact of Al-Driven Tools on Student Productivity and Stress Management in a Science Centre
	Duduzile Kubheka, South African Astronomical Observatory	Sandile Rikhotso, University of Limpopo Science Centre	Malwande Mdzobo, Nelson Mandela Bay Science and Technology center
14:30-14:45	A new consultancy service offered by formula D_ to the southern African science centre community	'Riding the Science Diplomacy wave: leveraging science communication for increased impact'	Future Robotics: "Transforming Ideas into Reality"
	Sidley Du Preez, Formula D	Bhamini Kamudu Applasawmy, Rajiv Gandhi Science Centre	Mr. Lebogang Seabelo, Mr. Mogomotsi Moeng, Ms. Lerato Molebatsi, North-West University Science Centre - Potchefstroom
14:45-15:00	Q&A	Q & A	Q&A
15:00-15:30	Tea break		
15:00-15:30	Plenary		
	Chair: Sivuyile Manxoyi		Venue: Lillibloom
15:30-15:50	The 'Great South African Inventions' travelling exhibition: its origin, achievements and future'	Mike Burton & Shadrack Mkansi	Formula D & SAASTA
15:50-16:10	The IAU Office of Astronomy for Development and opportunities for the SAASTEC community	Kevin Govender	IAU Office of Astronomy for Development
16:10-16:25	Bridging The Gap Between Science and Society: Learnings for Science Centers from the Science Shop Model	Mfanelo Ntsobi	Sci-Bono Discovery Centre
16:25-16:30	Q & A / Evening Logistics		
	Excursion & Dinner		
		iThemba LABS	

Day 2			
Uay 2 Wednesday - 27 November 2024			
Plenary			
	Chair: Tebogo Habedi	Venue: Lillibloom	
09:00-09:20	Fantastic Ocean Robots	Dr. Tammy Morris	South African Environmental Observation Network(NRF-SAEON)
09:20-09:25		Q & A	
09:25-10:45	Poster Sessions (Warwick room)		
10:30-11:00		Tea break (Posters)	
11:00 - 13:00		Break away Sessions	
Venue	Lillibloom	Boulevard	Duncan
Chair:	Chair : Shadrack Mkansi	Chair: Mrs Mariette Erwee	Chair: Duduzile Kubheka
11:00-11:15		The Sedibeng Science Fair: The Step Ladder for Science in the Vaal	Bridging the gap through career guidance and providing psychological services to learners and societies
		Tebogo Kgatitsoe, Arcelor Mittal Science Centre (Sebokeng)	Zonke Nyoni, Sci-Bono Discovery centre
11:15-11:30		Small grains, high nutrition and a better life	The potential of a Career Development Information Centre within Sci- Enza
		Mthobisi Mhoni, ArcelorMittal Science Centre - Newcastle	Tshepiso Maroga , Sci-Enza Science Centre, University of Pretoria
11:30-11:45		Science in Action: Engaging Youth to Tackle Food Security and Climate Change through Sustainable Agriculture	The Science of Science communication
11:30-11:45	Colones Contro Managers' anasting with DCT	Janet Kariuki ,Kenneth Monjero, Peter Wanuthi, Kenya Agricultural and livestock Research Organization	Michael Wolf, formula D_
	Science Centre Managers' meeting with DSTI	The Cape Town Science Centre Camera Obscura Tour and the wonders	Evaluating the Effectiveness of the Essential Skills Life Science
11:45-12:00		of light	Resource: Insights and Recommendations
		Umr Chippendale, Cape Town Science Centre	Diloshni Chetty, Unizulu science centre
12:00-12:15		The Impact of ROMPCO, Sasol and Osizweni Science Centre in Grade 12 leaners passing Mathematics and Physical Sciences in eManzana supported Schools.	Illuminating the Path: Science Communication studies - Where Research Meets Public Engagement
		Zwelakhe Madonsela, Osizweni Science Centre	Johanna Tsholofelo Mabitsela and Marvin Mantlebeku Masemola, Necsa
12:15-12:30		Q&A	Q&A
12:30-13:30		Lunch Break Break away	
Venue	Lillibloom	Boulevard	Duncan
Chair:	Chair: Umr Chippendale	Chair: Busisiwe Hadebe-Ziqubu	Chair: Buzani Khumalo
13:30-13:45	Illuminating the Electromagnetic Spectrum: A Focus on Visible Light	The impact of Mobile Science Lab activities on learners' attitude towards science	CAN SCIENCE SHOWS BE INNOVATIVE ENOUGH TO BRIDGE THE GAP BETWEEN SCIENCE & SOCIETY?
	Anda Makalala, Cape Town Science Centre	Prof Rufus Wesi, Osizweni Science Centre	Hlanganisa Madonsela, Sci-Bono Discovery Centre
13:45-14:00	Scientifically literate society through Science Engagement	Lab comparison: Grade 12 activity Al versus Hands on	The Dolos as a symbol of 25 years of collective tenacity in proving science engagement to hundreds of thousands of visitors.
	Pumza Tshebe, Nelson Mandela Bay Science and Technology Centre	Peter Horszowski	Steven Sack, Cape Town Science Centre
14:00-14:15	Empowering Future Generations: An inquiry into leaners' ability to make career choices	Enviro Science Fair Competition: Learning and winning through research based environmental science projects and programmes	The awareness of online resources for the advancement of robotics education using online questionnaires at science events in South Africa
	Mlungisi Nyamane, Osizweni Science Centre	Sinah Magolo & Moliehi Moonyane, Johannesburg City Parks & Zoo	Tumelo Nhlapo, UNISA Science Engagement Centre
14.15.11.00	Utilising Science Teachers professional development as powerful	Science Centres as incubators for innovation: A Southern African	Engaging Minds: Enhancing Science Education through Prescribed
14:15-14:30	learning environment for Student Educators G.M Nthoba, Science Education Centre (Sci-Ed)	Perspective Mr. Akash Dusrath & Dr. Bhamini Kamudu Applasawmy	Experiments for Grades 10-12 at the Science Centre Nsikelelo Allison Malinga, UNIZULU Science Centre
14:30-14:45	Online teaching: Challenges, opportunities, and new horizons Sandile Vilane, Osizweni Science Centre	Undercover Science Communication- New Possibilities Nadine Nortier, Inkcubeko Youth and Science Centre	Redefining Science Centres In The 21st Century Thabiso Sibiya, SCI-ENZA, University of Pretoria
14:45-15:00	Q&A	Q&A	Q&A
45.00 15.01	Tea break (Posters)		
15:00-15:30	Plenary		
	Chair: Sandile Rikhotso Venue: Lillibloom		

15:30-15:50	Science Centres' Contribution To STEMI Education – Preparing Learners For The Future World Of Work	Mr Moloko Matlala	STEMI Education, NRF-SAASTA
15:50-16:10	Space Science at the South African National Space Agency (SS@SANSA)	Prof Martin Snow	SARChi Research, SANSA
16:10-16:25	Design-based research:- specially suited for Science Centres!	Derek Fish	Unizulu Science Centre
16:25-16:30	Q & A / Evening Logistics		
	Gata evening		
	Formal Event - Black tie		

	Day 3			
	Thursday - 28 November 2024			
	Plenary			
	Chair: Nsikelelo Malinga	Venue: Lillibloom		
09:00-09:20	From dark skies to bright futures: the evolution of astronomy in Africa	Dr. Charles Takalana	SAAO, AfAS	
	Climate Change Education through Structured Debates: Fostering Critical Thinking and Informed Advocacy	Dr. Bhamini Kamudu Applasawmy	Rajiv Gandhi Science Centre	
09:20-09:40 09:40-10:45	Children Hinking and Informed Advocacy	Q & A		
09:45-10:30	What Research Tells Us About How Science Centres and Museums Can Effectively Engage Communities in STEM	Dr. Lynn D. Dierking	Institute for Learning Innovation, USA	
10:30-11:00		Tea break		
11:00-13:00		Break away sessions		
Venue	Obelia Dest Dest ve Week	N1994		
Chair:	Chair: Prof Rufus Wesi	Venue: Lillibloom		
11:00-11:15				
11:30-11:45				
11:45-12:00	Annual General Meeting			
12:00-12:15				
12:15-12:30				
12:30-13:30		Lunch Break		
Venue	Break away Boulevard Duncan			
Chair:	Boulevard Duncan Chair: Daniel Motsapi Chair: Sinah Magolo			
13:30-13:45	Intentional Interdisciplinary approach as a science engagement strategy Robotics education resources for South Africa – A language focus to reduce the gap between science and society			
	Amahle Mtuti, Nelson Mandela Bay Science and Technology Centre	Dr PM Gouws, Unisa Science Engagement Centre		
13:45-14:00	The Impact of Additional Math Tutoring on Learners' Understanding of Math Threshold Concepts Bridging Oceans and Algorithms: Empowering Learners with 21st Century Skills through coding with Oceanic Robots			
	Emmanuel Jakoba Makae, Osizweni Science Centre Thomas Mtontsi, Apiwe Mtetandaba, NRF-SAEON			
14:00-14:15	Science Engagement through Art at the UFS Sci-Ed Science Education Centre. VR application in education			
	Ms Amaria Reynders, Sci-Ed Science Education Centre, UFS	Cecil Manzini, Sci-Bono		
14:15-14:30	Nurturing young minds for an innovative future	Existance of digital divide in quintile one schools	v of Tophnology	
	Busisiwe Hadebe-Ziqubu, Sci-Enza, University of Pretoria Ms Mbali pridy Mbonani and Dr Samuel Dumazi khoza, Tshwane University of Technology Digital Literacy training as a tool to bridging the gap between the spinger and society.			
14:30-14:45	Umjikelezo We-Science – Taking science to the community Digital Literacy training as a tool to bridging the gap between the science and society Dr. Tanja Renhardt, Silindile Mthembu and Nomfundo Nzuza Thabile Mthiyane, Nelson Mandela Bay Science and Technology Centre			
14:45-15:00	Dr. Tanja Rennardt, Silindile Mthembu and Nomtundo Nzuza Thabile Mthilyane, Nelson Mandela Bay Science and Technology Centre Q&A Q&A			
15:00-15:30		Tea break		
15:00-15:30	Plenary			
	Chair: Sandile Rikhotso & Nadine Nortier	Venue: L	illibloom	
15:30-15:50	Science Show Demonstrations show off's (Round 2)			
15:50-16:00	Closing Remarks	osing Remarks Prof Rufus Wesi SAASTEC Chair		
		Free Evening - Optional tours lift - for personal expiernces @ own costs		