

PROGRAMME

NATIONAL SCIENCE WEEK 2021


MAKING IT POSSIBLE THROUGH SCIENCE

1 – 7 AUGUST 2021

Online events, virtual exhibitions and tours, webinars, documentaries and more science in South Africa



Programme: www.dst.gov.za
www.saasta.ac.za

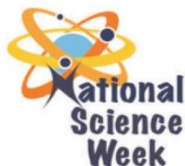
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*Making sure
it's possible.*



science & innovation

Department:
Science and Innovation
REPUBLIC OF SOUTH AFRICA



SAASTA
South African Agency for Science
and Technology Advancement

**STAY
SAFE**

VACCINATE TO SAVE SOUTH AFRICA

TOGETHER WE CAN BEAT CORONAVIRUS

PRE-NATIONAL SCIENCE WEEK

30 JULY 2021 (Friday)

TIME	TYPE OF ACTIVITY	DESCRIPTION OF ACTIVITY	HOST INSTITUTION	ONLINE LINK
10:00	Webinar	<p>ARTIFICIAL INTELLIGENCE (AI) AND 4IR IN AGRICULTURE : TACKLING FOOD INSECURITY</p> <p>How technologies are changing the future of work - understanding 4IR and the use of Artificial Intelligence in Agriculture to tackle food insecurity. Qinisani Qwabe (Rural Development)</p>	Nelson Mandela University (NMU)	Artificial intelligence & 4ir in agriculture: tackling food insecurity

NSW FOCUS WEEK (1 – 7 AUGUST):

02 AUGUST 2021 (Monday)

TIME	TYPE OF ACTIVITY	DESCRIPTION OF ACTIVITY	HOST INSTITUTION	ONLINE LINK
10:20	Documentary	Physics in my village: a Biogas documentary	Univen & HSRC	Biogas Documentary - Univen
11:00	Webinar	Essential facts about Covid-19: The disease, the responses and an uncertain future - For South African Learners (Grade10-Grade12) and Teachers	Academy of Science of SA	Essential facts about Covid-19
11:30	Webinar	Dismantling COVID-19 5g myths	University of Fort Hare / FOSST	Dismantling COVID-19 5g myths Meeting ID: 956 8762 9444 Passcode: kPc5U9
12:00	Webinar	<p>National Systems of Innovation Stakeholders' Role in White Paper on Science, Technology and Innovation. Prof Leickness Simbayi (HSRC), Dr Bernard Nthambeleni (UNIVEN), Prof Thenjiwe Meyiwa (UNISA), Mr Patrick Krappie (TIA), Dr Mmboneni Muofhe (DSI)</p> <p>Please click here to see the webinar programme, concept note and speaker biographies.</p>	HSRC, UNIVEN, TIA	National Systems of Innovation Stakeholders' Role in White Paper on Science, Technology and Innovation
12:00	Webinar	<p>Covid-19 virus variants and their impact on vaccines. Dr. Hazel Mufhandu</p>	North West University - Mafikeng	Covid-19 virus variants and their impact on vaccines
13:00	Discussion	In Conversation with Prof Refilwe Phaswana-Mafuya : Learning curves from my non-linear epidemiology career journey	Academy of Science of SA	In Conversation with Prof Refilwe Phaswana-Mafuya
14:00	Webinar	How blue skies research created billions of Rands worth of impact in South Africa - SANSA - emphasis on the role that Space Weather Research has played in addressing a global challenge that has domestic (South African) impact.	South African National Space Agency (SANSA)	How blue skies research created billions of Rands worth of impact in South Africa - SANSA
15:00	Webinar	Sharing knowledge about COVID-19 vaccinations. The lecture will be for 20 in and the 40 min of roundtable discussions. Dr Boitumelo Semete Makokotlela the CEO of SAPHRA	Tshwane University of Technology	TUT-SAHPRALecture on Covid-19 Vaccine

17:00	Webinar	Crop breeding and conservation for the South Africa of today and the future – The role of ARC	Agricultural Research Council	Crop breeding - ARC
	Recorded exhibitions	AET Africa	HSRC	AET Africa
		Dr Petro Erasmus - Math Whartels	HSRC	Math Whartels
		Astronomy - Combining multiple topics of physics to learn more about stars	NWU Potch	Learn more about stars
		Animations on Covid-19	UCT	Covid-19 Animations (English) Covid-19 Animations (Xhosa)
		IKS exhibition	NWU Mahikeng	IKS NWU
		Heart Origami	Scie-Enza (University of Pretoria)	Heart Origami
		Toys from Trash		Toys from Trash
		Strawzela (mini vuvuzela)		Strawzela (mini vuvuzela)
		The NSTC documentary will showcase innovations improving the livelihood of people.	National Science And Technology Council (Zambia)	Science improving livelihood in Zambia
19:00	Live activity	Star gazing at Mahikeng Observatory: Prof. Thebe Medupe	North West University Mafikeng	Star gazing - Mafikeng

03 AUGUST 2021 (Tuesday)

TIME	TYPE OF ACTIVITY	DESCRIPTION OF ACTIVITY	HOST INSTITUTION	ONLINE LINK
11:00	Webinar	E-Promotion of Science: Promoting Science and Technology during the COVID-19 Pandemic by Mr. Ramsurrun. Mr. Ian Li and Mr. Luximon	Rajiv Gandhi Science Centre, Mauritius	Science and Technology promotion in Mauritius
12:00	Webinar	<i>From the discovery of the Higgs boson to modelling COVID-19: The role of AI.</i> Professor Bruce Mellado	Wits University	From the discovery of the Higgs boson to modelling COVID-19: The role of AI
12:00	Webinar	Bolepi dinaledi and Covid-19 pandemic: Dr. Motheo Koitsiwe	NWU MAHIKENG	Dinaledi
12:00	Webinar	A perspective on how scholars perceive attitudes to science in policymaking in South Africa. Dr P Sekhejane (HSRC), Prof Mamphweli (Stellenbosch), Prof K Motaung (DUT), Prof J Botai SAWS), Prof S Mpandeli (WRC) & Dr M Gastrow (HSRC) <i>Please click here to see the webinar programme, concept note and speaker biographies.</i>	University of Venda (UNIVEN)	A perspective on how scholars perceive attitudes to science in policymaking in South Africa
14:00	Webinar	Crop Breeding – South Africa's sustainability in the face of climate change and response to global competition	Agricultural Research Council	South Africa's sustainability in the face of climate change and response to global competition Link
14:00	Live exhi	Robotics : Year of Science : Fruit and Vegetables	UNISA (I-SET)	Fruits and vegetables - UNISA
15:00	Webinar	Tshwane university of Technology representatives will give insight on the effect of COVID 19 to the mental health if the institution specifically on students. The lecture will be for 20 min and the 40 min of roundtable discussions	Tshwane University of Technology	Effect of Covid-19 to the mental health

17:30	Webinar	The Why and How of Aerospace Propulsion Research at UKZN. Prof Michael Brook	University of KwaZulu-Natal (UKZN)	The Why and How of Aerospace Propulsion Research at UKZN
	Recorded exhibitions	KwaZulu Natal Research Innovation and Sequencing Platform (KRISP)	KRISP	KRISP Videos
		All about viruses, Covid-19 and vaccines	DIPLOMICS	Everything about vaccines
		COVID-19 VACCINE: Dealing with the myths about vaccine	University of Cape Town & Eh!woza	Myths about vaccine
		Aeropnics; Robotics ; ReVEL Physics; ReVEL Chemistry ; ReVEL Arduino Robotics	University of Fort Hare / FOSST	UFH / FOSST Exhibition
	Lecture	Computer Science – AI & programming. Robotics, Community Engagement & Security. Dr Jappie Greef	NWU - Vaal	Computer Science – AI & Programming (NWU-Vaal)
		Robotics, Community Engagement & Security		Robotics, Community Engagement & Security

04 AUGUST 2021 (Wednesday)

TIME	TYPE OF ACTIVITY	DESCRIPTION OF ACTIVITY	HOST INSTITUTION	ONLINE LINK
09:00	Webinar	The impact of Covid 19 on the farming communities, the contribution that Agri-SA and ARC has done in the farming communities, New technology or scientific way of farming, Crop health. C van der Rheede, Dr Lampbrecht, Dr E Cruywagen, Dr J Mulabisana, Dr R Pierneef	Ditsong Museum	The impact of Covid 19 on the farming communities
10:00	Poetry Webinar	Poetry in Science Communication	SAASTA	Science Poetry
11:00	Webinar	<i>How do we know if and when science makes a difference?</i> <i>Discussion with South African Journal of Science (SAJS) authors</i>	Academy of Science of SA	How do we know if and when science makes a difference?
11:00	Documentary	Aerodynamics Manufacturing & Design & Weight management Electric Components of the solar car. Telemetry, electronics & Race strategy. Technology behind the NWU Solar Car-Naledi 2.0	North-west University Potchefstroom	Technology behind the NWU Solar Car-Naledi 2.0
12:00	Webinar	<i>Vegetables and Medicinal Plants</i> The role of vegetables and medicinal plants in enhancing food, nutrition and human health security in South Africa	Agricultural Research Council (ARC)	Vegetables and Medicinal Plants
12:00	Webinar	The importance of uncertainty in many scientific predictions; and the relevance of this to environmental controversies. Due to the outbreak of covid-19, the mental health of the people all around the world is severely disrupted.	HSRC	A perspective on how scholars perceive attitudes to science in policymaking in South Africa
12:00	Webinar	The impact of covid-19 on food security in South Africa Prof. Olubukola Babalola	North-west University - Mafikeng	The impact of covid-19 on food security in South Africa

12:00	Documentary	Science, Technology and Innovation in a rural context: Highlights from the University of Limpopo	University of Limpopo	STI at UL
13:00	Webinar	UNIZULU Covid-19 research: The importance of uncertainty in many scientific predictions, and relevance of this to environmental controversy. Presenting scientific facts base on the scientific research on COVID-19 and looked at human behaviour towards the pandemic outbreak.	University of Zululand (UNIZULU)	UNIZULU Covid-19 research
13:00	Live exhibition	Space science and Technology	UNIZULU	Space Science
17:00	Webinar	Oceans and People: Effects of anthropogenic activities on marine biodiversity. Nozipiwo Hambaze	SAEON Elwandle	Oceans and People Meeting ID: 988 1205 8794 Passcode: 921062
17:30	Webinar	MYSTERIOUS MARION ISLAND: Developing and Testing Radio Astronomical Equipment in the Cold. Ms Tankiso Moso	University of KwaZulu Natal (UKZN)	MYSTERIOUS MARION ISLAND
		Meet the Scientist: Episode I – Marine Science: The Ins and Outs ft Dr R. Bhagooli	Rajiv Gandhi Science Centre, Mauritius	Marine Science by Dr. R. Bhagooli Ecology by Dr. Florens Wash your hands

05 AUGUST 2021 (Thursday)

TIME	TYPE OF ACTIVITY	DESCRIPTION OF ACTIVITY	HOST INSTITUTION	ONLINE LINK
10:00	Webinar	The links between waste management and air quality	North-west University Potchefstroom	Waste management and air quality
11:00	Documentary	Vaccines: Everyday fears and answers: The film uncovers, normalises and responds to Khayelitsha-based residents' concerns around COVID-19 vaccination.	University of Cape Town (UCT)	Click here for more
12:00	Webinar	The role of 4IR during Covid-19 pandemic. Technology has played an important role in responding to coronavirus pandemic. Dr. Francis Lugayizi	North-west University Mafikeng	The role of 4IR during Covid-19 pandemic
12:00	Webinar	Celebrating Women in Technology & Innovation through local and global ecosystem partnerships. Host: Senisha Moonsamy,- Tsholofelo Mokotedi (EW Seta), Petro De Wet (UNIDO), Lucy Moteka (TIA), Dr Jo-Ann (UCT), Mukundi Lambani (Ambani Africa), Sandiswa Qayi (AET Africa Innovation)	HSRC, UNIVEN, TIA	Celebrating Women in Technology & Innovation through local and global ecosystem partnerships
13:00	Webinar	Food security and nutrition: contributing to sustainable development goals	SAASTA / CoE in Food Security	Food security
14:00	Lecture	Dinosaurs of Africa . The fossils have been discovered across the continent – from the Sahara Desert to the Karoo. Dinosaurs of Africa outlines the different dinosaur's species, including	Academy of Science of SA	Dinosaurs of Africa

		fish-eating, sociable, and predatory dinosaurs, as well as those that were cannibals. Prof. Anusuya Chinsamy-Turan is a palaeontologist based at the University of Cape Town.		
15:00	Documentary	SANPARKS_kgodumodumo documentary	SANParks	SANPARKS_kgodumodumo
17:00	Webinar	Fisheries and its relation to sustainable use of ocean resources: The fishing issue and its relation to sustainable use of ocean resources: Ocean ecosystems exist parallel to human society.	SAEON Eganganini	Fisheries and its relation to sustainable use of ocean resources Meeting ID: 974 8786 4215 Passcode: 107056
17:30	Webinar	LIFTING BACK THE WATERS: Adventures in Southern African Marine Geology. Professor Andrew Green	University of KwaZulu Natal (UKZN)	Lifting back the waters
	Recorded Exhibitions	Pressure Science Show	Sci-Bono Science Centre	Science show
		Maths Thinker – Measurement – Grade 6 - 12:00 - Experiment – Test tube rocket -	Cape Town Science Centre	Maths Thinker
		Maths Thinker – Measurement – Grade 7 Exhibit – Nice Dice -		Maths Thinker grade 7
		Robotics	SANSA	Robotic
		Space Science Virtual Tour		Space Science virtual tour

06 AUGUST 2021 (Friday)

TIME	TYPE OF ACTIVITY	DESCRIPTION OF ACTIVITY	HOST INSTITUTION	ONLINE LINK
09:00	Documentary	Air Quality	North West University Potch	Air Quality – NWU Potch
09:00	Live engagement	<i>Indigenous Knowledge System (IKS)</i> Prof Tshisikhawe, Adv Dr Matshidze	University of Venda (UNIVEN)	UNIVEN IKS
10:00		<i>Renewable Energy Recorded Exhibition</i> Dr TS Mulaudzi, Dr EN Maluta		Renewable Energy Exhibition and the Recorded Exhibition
10:35		The Secret of Success: Star Schools in the Vhembe District: Dr S Kaheru		The Secret of Success: Star Schools in the Vhembe District
10:30	Webinar	The undergraduate student will have a 30 min quizzes based on the current world COVID 19 status quo while basing their facts on science. Prizes will be provided for three winners in the quiz gaming.	Tshwane University of Technology	Join TUT webinar
11:00	Webinar	Mechanisms, funding and state capability for poverty and inequality reduction (post-Covid) in South Africa	Academy of Science of South Africa (ASSAf)	Mechanisms, funding and state capability for poverty and inequality reduction (post-Covid) in South Africa

11:00	Round table Discussions	Sustainable Nanotechnologies for Rural Communities and Schools in South Africa (Nano4Rural). Prof Edward Nxumalo, Prof Thabo Nkambule, Dr De Kock, Dr Allain Kamika, Dr Lawrence Madikizela, Ms Nontokozo Magwaza, Dr Machawe Motsa and Dr Muthumuni Managa	iNanoWS Institute - University of South Africa	Sustainable Nanotechnologies for Rural Communities and Schools in South Africa
12:00	Webinar	Multiple losses & complication in grief as mental health concern during covid-19 pandemic: Prof. Alida Herbst; Dr. Nelia Drenth; Ms Annette De La Porte; Prof Thobeka Nkomo	North-west University (NWU) Mafikeng	Multiple losses & complication in grief as mental health concern during covid-19 pandemic
12:00	Documentary	Profiling women in Science Professor Helen Rees , Legend of South African Science	Academy of Science of South Africa (ASSAf)	Profiling women in Science
13:00	Webinar	Advances in Crop Protection The role of plant bioactive compounds and biological control	Agricultural Research Council	Advances in Crop Protection
13:00	Webinar	The importance of uncertainty in many scientific predictions, and relevance of this to environmental controversy. Presenting scientific facts base on the scientific research on COVID-19 and looked at human behaviour towards the pandemic outbreak	UNIZULU	Scientific facts on Covid-19 - UNIZULU Meeting ID: 876 5665 2523 Passcode: 299087
	Exhibition	Indigenous Knowledge Systems (IKS) and Heritage	UNIVEN	UNIVEN IKS
	Lecture	SMU Lectures on Science Week	SMU	Sefako Makgatho Health Sciences University – NSW 2021

07 AUGUST 2021 (Saturday)

TIME	TYPE OF ACTIVITY	DESCRIPTION OF ACTIVITY	HOST INSTITUTION	ONLINE LINK
09:00	Learner virtual Camp	Misava Yile ku Cinceni – My World is Changing	SAEON	Misava Yile ku Cinceni – My World is Changing Meeting ID: 917 3327 4712 Passcode: 277265
11:00	Virtual Science Show	Virtual Science Show	Cape Town Science Centre	Cape Town Science Centre virtual show
12:00	Documentary	Isinuka healing water	Walter Sisulu University	Isinuka healing water