A VIRTUAL FESTIVAL PRESENTED BY -





WE WOULD LIKE TO THANK OUR PREMIERE CONTRIBUTORS





Department: Science and Innovation REPUBLIC OF SOUTH AFRICA



AND OTHER CONTRIBUTING ORGANISATIONS



PRNNSOCS

Tuesday, 20 October 2020

12h30Engaging Astronomy - Resources for Educations and ParentsMs Risteen Gottschneit.ICPAR- Australia14h00The NASA Juno mission and Clyde's SpotMr Clyde ForterASSA18h00NASA's Lunar Exploration Program OverviewMs Rianca M RhymNASA'sUter Statistication Program OverviewUter Statistication Program OverviewInformation Statistication Program OverviewInformation Program OverviewInformation Statistication Program OverviewUter Statistication Program OverviewInformation Program Overview <t< th=""><th colspan="5"></th></t<>					
18h00 NASA's Lunar Exploration Program Overview Ms Bioned M Rhym NASA Wednesservers Wednesservers Ms Bioned M Rhym NASA 10h00 Infernational Science Communication Webinar Best Practices for Science Communication using Digital Platforms International Community NMBSTC 14h00 The future of cosmology and natural science Prof Bruce Bassett SAAO 18h00 The search for Sign of Life Beyond Earth Prof Science Scoger MT 11h00 Mastering astronomy Mr Samir Dhurde SCIPOP-India 14h00 Astrotourism SciPOP-India SciPOP-India 14h00 Mastering astronomy Mr Samir Dhurde SciPOP-India 14h00 Virkul VLA Tour Virkul Plasaet SciPOP-India 14h00 Making sense of our world through space science and technology Dr Valanathon Munsami SAAO SciPert <th>12h30</th> <th>Engaging Astronomy - Resources for Educators and Parents</th> <th>Ms Kirsten Gottschalk</th> <th>ICRAR - Australia</th>	12h30	Engaging Astronomy - Resources for Educators and Parents	Ms Kirsten Gottschalk	ICRAR - Australia	
Wedness Set Practices for Science Communication Webinar Best Practices for Science Communication Using Digital Platforms International Science Communication Using Digital Platforms International Community NMBSTC 10h00 The future of cosmology and natural science Proit Bruce Bassett SAAO 18h00 The search for Sign of Life Beyond Earth Proit Bruce Bassett SAAO 18h00 The search for Sign of Life Beyond Earth Proit Scra Seager MIT 11h00 Mastering astronomy Mr Samr Dhurao SCPOPIndia 14h00 Astrotourism MrAnthony Mictas SAAO 16h00 Unlock Science MIT Science Science Spit Science 18h00 Virtual VLA Tour Mr Pacik Spics Spit Science Science 18h00 Virtual VLA Tour Maxing sense of our world through space science and technology Dr Vatanathan Munsomi SAAO Sciensi 19h30 Star Parky with Master KG Master KG SAAO Sciensi SAAO Sciensi 18h00 8 October 2020: Camptire under the African Skies Dr Gcina Mhiophe Line Line Line Line Line Line Line Line	14h00	The NASA Juno mission and Clyde's Spot	Mr Clyde Foster	ASSA	
10h00International Science Communication Webinar Best Practices for Science Communication using Digital PlatformsInternational CommunityNMBSTC14h00The future of cosmology and natural scienceProf Bruce BassettSAAO18h00The search for Sign of Life Beyond EarthProf Sorio SeogerMITThurs J2 October 2020Mastering astronomyMr Samir DhurdeSCPOPIncio11h00Mastering astronomyMr Samir DhurdeSCPOPIncio14h00AstrotourismMr Anthony MictasSAAO16h00Unlock ScienceMRAOMRAO18h00Virtual VLA TourVirtual VLA TourNIRAOFridary, 23 October 2020Dr Valcmathan MunsamiSANO14h00Making sense of our world through space science and technologyDr Valcmathan MunsamiSANO19h30Stor Party with Master KGMcster KCSAAO SoFestFrogrammer Teasers18h008 October 2020: Campfire under the African SkiesDr Goina Mhlophe	18h00	NASA's Lunar Exploration Program Overview	Ms Bianca M Rhym	NASA	
LUNU0Best Practices for Science Communication using Digital PlatformsCommunityNMESIC14h00The future of cosmology and natural scienceProf Sruce BassettSAAO18h00The search for Sign of Life Beyond EarthProf Sara SeagerMTThursd Science 202011h00Mastering astronomyMr Somir DhurdeSCIPCP-India14h00AstrotourismMr Somir DhurdeSCIPCP-India14h00AstrotourismMr Felix SciesSAAO16h00Unlock ScienceMr Anthony MietasSAAO18h00Virtual VLA TourVLA Engagement TeamNRAO14h00Making sense of our world through space science and technologyDr Valonathon MunsomiSANSA19h30Star Party with Master KGMaster KGMaster KGSAAO [SciFest18h008 October 2020: Campfire under the African SkiesDr Ceina MhlopheLine Ceina Mhlophe	Wednesday, 21 October 2020				
18h00The search for Sign of Life Beyond EarthProf Sara ScagorMITThursd-z 202011h00Mastering astronomyMr Somir DhurdeSCIPOPIndia14h00AstrotourismMr Anthony MietosSAAO16h00Unlock ScienceMr Pelix SpiesSpilt Second Science18h00Virtual VLA TourNRAOVIA Engagement TeomNRAO14h00Making sense of our world through space science and technologyDr Valanathan MunsamiSANSA19h30Star Party with Master KGMaster KGSAAO SciFost18h008 October 2020: Campfire under the African SkiesDr Goino MhlopheLine Science Ministry	10h00			NMBSTC	
Thursday, 22 October 2020 11h00 Mastering astronomy Mr Samir Dhurde SCIPOP-India 14h00 Astrotourism Mr Anthony Mietas SAAO 16h00 Unlock Science Mr Anthony Mietas Split Second Science 18h00 Virtual VLA Tour VLA Engagement Team NRAO Friday, 3 October 2020 14h00 Making sense of our world through space science and technology Dr Valanathan Munsami SANSA 19h30 Star Party with Master KG Master KG SAO SciFest IBh00 8 October 2020: Campfire under the African Skies Dr Caina Mhlophe	14h00	The future of cosmology and natural science	Prof Bruce Bassett	SAAO	
11h00Mastering astronomyMr Samir DhurdeSCIPOF-India14h00AstrotourismMr Anthony MietasSAAO16h00Unlock ScienceMr Folix SpicsSplit Second Science18h00Virtual VLA TourVLA Engagement TeamNRAOFriday, 23 October 202014h00Making sense of our world through space science and technologyDr Valonathan MunsamiSANSA19h30Star Party with Master KGMaster KGSAAO SciFestItems technology18h008 October 2020: Campfire under the African SkiesDr Gcina Mhlophe	18h00	The search for Sign of Life Beyond Earth	Prof Sara Seager	MIT	
14h00AstrotourismMr Anthony MietasSAAO16h00Unlock ScienceMr Felix SpiesSplit Second Science18h00Virtual VLA TourVLA Engagement TeamNRAOFriday, 23 October 202014h00Making sense of our world through space science and technologyDr Valanathan MunsamiSANSA19h30Star Party with Master KGMaster KGSAAO SciFestIsh0008 October 2020: Campfire under the African SkiesDr Gcina Mhlophe	Thursday, 22 October 2020				
16h00Unlock ScienceNr Felix SpicsSplit Second Science18h00Virtual VLA TourVLA Engagement TeamNRAOFriday, 23 October 202014h00Making sense of our world through space science and technologyDr Valanathan MunsamiSANSA19h30Star Party with Master KGMaster KGSAAO SciFest18h008 October 2020: Campfire under the African SkiesDr Gcina Mhlophe	11h00	Mastering astronomy	Mr Samir Dhurde	SCIPOP-India	
18h00Virtual VLA TourVLA Engagement TeamNRAOFriday, 23 October 202014h00Making sense of our world through space science and technologyDr Valanathan MunsamiSANSA19h30Star Party with Master KGMaster KGSAAO SciFestImage: Star Party with Master KGDr Ograce Science and technology18h00Star Party with Master KGDr Gcina Mhlophe	14h00	Astrotourism	Mr Anthony Mietas	SAAO	
Friday, 23 October 2020 14h00 Making sense of our world through space science and technology Dr Valanathan Munsami SANSA 19h30 Star Party with Master KG Master KG SAAO SciFest Programme Teasers 18h00 8 October 2020: Campfire under the African Skies Dr Gcina Mhlophe	16h00	Unlock Science	Mr Felix Spies	Split Second Science	
14h00Making sense of our world through space science and technologyDr Valanathan MunsamiSANSA19h30Star Party with Master KGMaster KGSAAO SciFestProgramme Teasers18h008 October 2020: Campfire under the African SkiesDr Gcina MhlopheLange test	18h00	Virtual VLA Tour	VLA Engagement Team	NRAO	
19h30 Star Party with Master KG Master KG SAAO SciFest Programe Teasers Image: Complement of the African Skies Dr Gcina Mhlophe 18h00 8 October 2020: Campfire under the African Skies Dr Gcina Mhlophe	Friday, 23 October 2020				
Programme Teasers 18h00 8 October 2020: Campfire under the African Skies Dr Gcina Mhlophe	14h00	Making sense of our world through space science and technology	Dr Valanathan Munsami	SANSA	
18h00 8 October 2020: Campfire under the African Skies Dr Gcina Mhlophe	19h30	Star Party with Master KG	Master KG	SAAO SciFest	
	Programme Teasers				
2 - 31 Oct Astrophotography and Astro-Art Competition SAAO SAAO	18h00	8 October 2020: Campfire under the African Skies	Dr Gcina Mhlophe		
	2 - 31 Oct	Astrophotography and Astro-Art Competition	SAAO	SAAO	

workshop webinar public talk teaser party

workshop

MS KIRSTEN Gottschalk



Tuesday, 20 October 2020 12h30

ICRAR's Outreach and Education Programme connects with tens of thousands of people every year, reaching far and wide from school learners, teachers to science researchers, the local community and the media.

The core purpose of ICRAR's Outreach and Education program is to promote awareness and interest in science, computing and engineering, improving science literacy and participation in science-related fields.

International Centre for Radio Astronomy Research

Engaging Astronomy - Resources for Educators and Parents

Want to engage students with astronomy? Join in this workshop for a quick introduction to a wide range of resources and activities that educators can use with their learners.

In this presentation, we will go through a selection of ICRAR's educational resources suitable for both primary and secondary aged students, including demonstrations.

With the COVID-19 lockdown, many parents have had to become educators, many educators have had to diversify their approach to teaching methods and continue to try and engage with learners where possible. Join Kirsten Gottschalk as she presents all the resources that Australia has been using to engage learners and the public in Astronomy.

Take advantage of this opport unity as we embrace cultures of best practices and methods from an international perspective. All media and resource links from ICRAR can be found in the link below and are completely free of charge.

Pre-workshop requirements: www.icrar.org/edresources

• REGISTER HERE •



MR CLYDE FOSTER



Tuesday, 20 October 2020 14h00

Clyde's passion for Astronomy was reignited in 2014 when he purchased a Celestron 14' Edge HD SCT telescope and started planetary imaging. He quickly discovered the contribution that amateurs can make in this field and has since been invited to a number of international professional Planetary Science conferences and workshops where he has presented his work. He has presented at a number of local venues across South Africa and has been recognised by the Astronomical Society of Southern Africa (ASSA) with various certificates and awards. The NASA Juno mission and Clyde's Spot

The presentation will highlight the valuable contribution that amateur astronomers are making in support of spacecraft missions, specifically the NASA Juno mission that is currently active at Jupiter. It also covers the detection of a new storm system on Jupiter that was discovered by Clyde and is now known as "Clyde's Spot".

This was imaged by the Juno spacecraft 2 days after his observations, attracting significant media attention.

Watch the NASA video

Watch the Carte Blanche video

Let's take a journey with Clyde on what it took to get his name on another planet.



REGISTER HERE •



Astronomical Society of Southern Africa

MS BIANCA M RHYM



Tuesday, 20 October 2020 18h00

Bianca M. Rhym is a member of the Engineering Directorate at NASA John F. Kennedy Space Center (KSC). She provides electrical engineering design, test, maintenance, troubleshooting, and support for commercial resupply service (CRS) launch operations to the International Space Station (ISS), including critical latestow transport and integration of science experiments and cargo into the SpaceX Dragon capsule. She is a Communications subject matter expert with the Deep Space Directorate and provides electrical engineering support for the Artemis Program's Gateway Logistics Services and Human Landing System, in addition to other research and technology programs and projects.

Artemis Plan: NASA's Lunar Exploration Program Overview

Under the Artemis program, humanity will explore regions of the Moon never visited before, uniting people around the unknown, the never seen, and the once impossible.

This presentation is an overview of NASA's Artemis Plan - how we will return to the Moon once again and how we will use the Moon as the stepping stone for our next great leap — human exploration of Mars.

• REGISTER HERE •



National Aeronautical Space Agency (NASA)

webinar

CONTRIBUTORS.



Wednesday, 21 October 2020 10h00 | 11:30

The Nelson Mandela Bay Science and Technology Centre (NMBSTC), operated by the Mandela Bay Development Agency (MBDA), was established in 2013 as a strategic programme to build enthusiasm and a passion for science, technology and mathematics through fun and interactive engagements with learners and the community. The NMBSTC has partnered with Scifest Africa and SAAO to bring you a thought provoking webinar taking on an international perspective on science communication and engagement.

International Science Communication and Engagement Webinar on Best Practices for Science Communication using Digital Platforms

Objectives:

- Share/Assess the changes or adjustments made amongst science centres/institutions to their daily operations during the pandemic and the programmes implemented.
- Post Covid adjustments to daily operations and programme implementation.
- Share best practices to be adopted to facilitate digital platforms.
- Develop a concept document that will inform the best practices for science engagement using digital means.
- Certificates of attendance will be issued to all science graduates, interns, science communicators and science journalists in attendance by the South African Agency for Science and Technology Advancement (SAASTA)

REGISTER HERE •



Nelson Mandela Bay Science and Technology Centre

PROF BRUCE

BASSETT

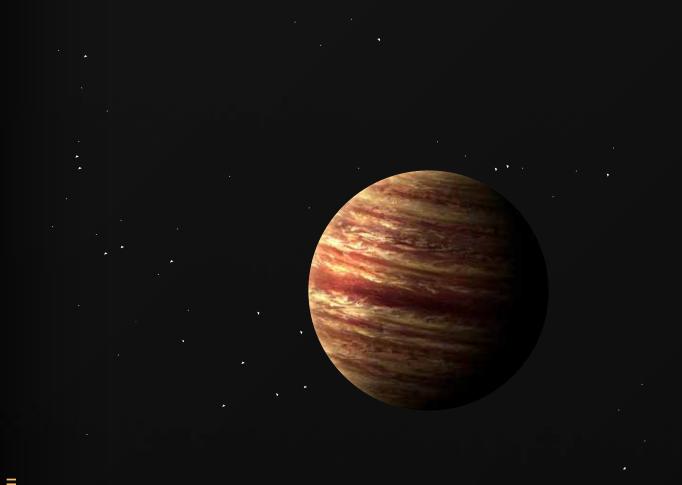


Wednesday, 21 October 2020 14h00

Bruce has lived and worked in Italy, Japan and the UK but still thinks Cape Town is probably the most beautiful city in the world.

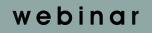
The Future of cosmology and natural science

Artificial Intelligence is radically changing society. Join Bruce as we explore with him what this means for the future of science with a keen focus on cosmology and astronomy. He will address some of the highly philosophical to the very practical questions.



• REGISTER HERE •





PROF SARA SEAGER



Wednesday, 21 October 2020 18h00

Sara Seager is an astrophysicist and a professor of planetary science and physics at the Massachusetts Institute of Technology. Her research, which earned her a MacArthur Foundation "genius" grant, has introduced many foundational ideas to the field of exoplanets, and she led NASA's Probeclass study team for the Starshade project. She is now at the forefront of the search for the first Earth-like exoplanets and signs of life on them. She is the author of "The Smallest Lights in the Universe: A Memoir". She lives with her family in Concord, Massachusetts.

The search for Sign of Life Beyond Earth

For thousands of years, inspired by the star-filled dark night sky, people have wondered what lies beyond Earth.

Today, the search for signs of life is a key factor in modern-day planetary exploration. Astronomers have found thousands of planets that orbit nearby stars, called "exoplanets". Next-generation telescopes will enable us to study gases in rocky exoplanet atmospheres, including gases that might be attributed to life.

Closer to home, astronomers have recently and unexpectedly detected phosphine gas on our sister planet Venus, which might possibly indicate the presence of life or may be explained by unusual chemistry.

Professor Sara Seager, one of the world's leading experts on the search for Earth-like planets and life beyond Earth, will share the latest advances in this revolutionary field.

REGISTER HERE



workshop





Thursday, 22 October 2020 11h00

With a scarcity of resources and learners and educators having to improvise their methods of learning and teaching, join Samir as he uses everyday items to understand astronomy. He even makes use of yourself as a tool to learn Astronomy.

Mastering astronomy

When it comes to going big IUCAA certainly have proven themselves to be in a league of their own, holding the Guinness Book of World Record for having the most number of learners attend an astronomy programme at the same time.

Learners attended a lecture followed by a handson activity allowing IUCAA to be recognised for their dedicated efforts towards the promotion of astronomy.

Learners and educators are encouraged to join this session as Samir shows you how to DIY activities in astronomy, and use innovative methods such as role-playing with your family and friends to learn astronomy.

REGISTER HERE •



Inter-University Centre for Astronomy and Astrophysics

workshop

SCIENCE SHOW



Thursday, 22 October 2020 16h00

Split Second Science hosts and facilitates shows and workshops aimed at generating a scientific curiosity in children and teenagers, through edutainment. The presenter, Leandra Taylor has a BSc degree in Medical Sciences, PGCE and a MSc Degree in Human Nutrition and Dietetics. She is a 'feature writer' for a science magazine and is also on the judging committee for the Eskom expo for young scientists in KZN. Leandra also served in the SANDF as a medic and nurse.

Unlock Science

This prerecorded science show will explain various scientific concepts whilst deliberately including many wow factors. Our intention is to make science come alive by educating viewers through entertainment. Science shows are a big part of science engagement. Their role in creating enthusiasm whilst unlocking an awareness, appreciation and understanding of Science Technology, Engineering, Mathematics and Innovation can never be underplayed.

The video will be made available on the 22nd of October on all our social media platforms.



Split Second Science

MR ANTHONY MIETAS



Thursday, 22 October 2020 14h00

Mr Anthony Mietas, from the small community of Sutherland, in the Northern Cape, currently employed by the South African Astronomical Observatory (SAAO) as the Manager for the SALT Collateral Benefits program in Sutherland, focussing on education, public awareness and outreach. Hiswork experience over the year's ranged from local government, to private sector development and currently education and outreach within a national research facility.

Astrotourism

With the Sutherland Visitor centres seeing approximately 14 000 visitors in 2019 consisting of both National and International visitors.

Anthony links experiences and observations of how science and tourism have assisted to drive various developments in the Northern Cape. The SALT Telescope listed as one of the must see activities when travelling in the scenic Northern Cape has for years assisted in driving tourism and interest further creating more awareness in science and astronomy.

Anthony has attended many tourism initiatives geared at assisting to create a booming tourism landscape in the Northern Cape and Sutherland.

Join us as he presents some of the possibilities that the future may present us with as science combined with tourism has aided with creating a knowledge economy and sustained interest and investment.

REGISTER HERE •



South African Astronomical Observatory



Thursday, 22 October 2020 18h00

Brought to you by the STEAM Education Team at NRAO: Summer Ash, Faith Vowler, Tyler Cohen, and Montana Williams.

Virtual VLA Tour

Enjoy a personal, in-depth look at this world-renowned radio telescope and the field of radio astronomy. The tour will include an introduction to the history and science of the Very Large Array, video segments that will transport the audience to parts of the observatory otherwise offlimits to the public, and an interview with one of the telescope operators. There will also be time for Q&A.

The Very Large Array is the most versatile, widely-used radio telescope in the world. It can map the large-scale structure of gas and molecular clouds and pinpoint ejections of plasma from supermassive black holes. It is the world's first colour camera for radio astronomy, thanks to its new suite of receivers and a supercomputer that can process wide fields of spectral data simultaneously. The VLA is also a high-precision spacecraft tracker that NASA and ESA have used to keep tabs on robotic spacecraft exploring the Solar System



REGISTER HERE •



DR VALANATHAN Munsami



Friday, 23 October 2020 14h00

As of January 2017, Dr Munsani has been appointed as the Chief Executive Officer (CEO) of SANSA. He is currently a member of the South African Council for Space Affairs (SACSA) and is a Vice Presidentof the International Astronautic Federation (IAF). He has recently been inducted as an academician of the International Academy of Astronautics (IAA) and sits on the Advisory Boards of the Space Generation Advisory Council (SGAC) and the UAE's International Space Congress.

Making sense of our world through space science and technology

The presentation provides a basic understanding of the key concepts of space science and technology and how these are used to support our modern day standard of living. We will explore how satellites are placed in orbit and how they are used to gather and pass on information that we use on a daily basis. We will also explore the various disciplines of space science and technology, such as earth observation, navigation and positioning, telecommunications, space weather phenomena, and space operations.

We will then get a glimpse of the important work that is being done by the South African National Space Agency and how these activities support the government in making better decisions that influence and affect our everyday lives. We will also talk about the new and exciting initiatives that SANSA will be working on over the next five years and about our student outreach and support programmes and how you could take up a career in this exciting field.

REGISTER HERE •



South African National Space Agency (SANSA)

STAR PARTY

WITH GLOBAL HIT SINGLE JERUSALEMA'S **SINGLE JERUSALEMA'S** AS HE DECIDES TO TAKE HIS MUSIC INTO **SPACE**

23 October 2020 • 19h30

Join us for a night of live virtual stargazing and good music – blending science and music to raise awareness, enthusiasm and excitement of the crucial role of science in South Africa.

> Win prizes by entering the #Junior Astrophotography and #Astro Art competition that will be announced by the legend himself!

ENTER COMPETITION

SIGN UP FOR PARTY

JOIN US LIVE ON:

f @SAAOnews

@SAAO_astro

S @GHTscifest

f @scifestafrica

Oscifestafrica



DR GCINA MHLOPHE

teaser



Thursday, 8 October 2020 18:00

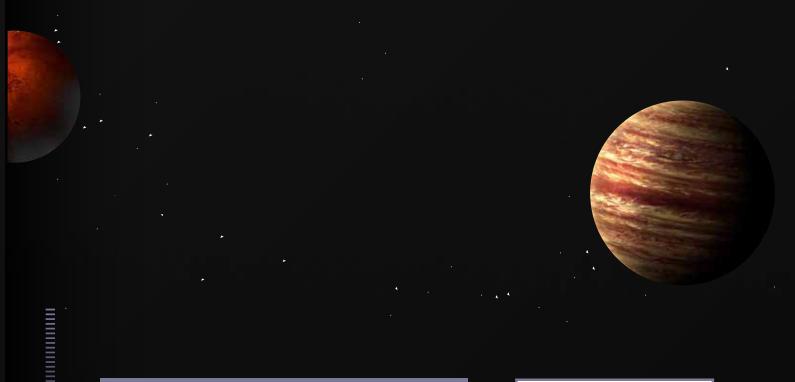
Talented, graceful and elegant are some of the words that come to mind when describing Dr Gcina Mhlophe. She has a voice so captivating that one is drawn to her stories like a moth to a flame or an astronomer to the stars. Join us for a memorable evening around a virtual campfire as we hear Dr Mhlophe narrate some famous tales of the night sky. We encourage our public to join us as she transports us to the stars and beyond.

Campfire under the African Skies

The people of Africa have been telling stories for so long, it continues to flow like enchanted rivers through time.

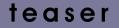
These rivers traverse all the way up to the sky and transform into the Milky Way, reminding us that we are not only tasked with the responsibility to honour each star with our very souls, but also to keep telling the stories to future generations.

The evening star steps up to wave goodbye to the setting sun and calls on the elders to gather the family around the fire for storytime!



REGISTER HERE •









CLICK HERE TO ENTER

AND FOR MORE INFORMATION

ASTROPHOTOGRAPHY and ASTRO-ART COMPETITION

We encourage photographers, astro-photographers and amateur photographers to submit their shots of the Southern Hemisphere for entry into the competition. The criteria for awarding exhibition space will be the following: deep sky, shallow sky, planets, moon, milky way and

The Astrophotography Junior allows learners with a cell phone to submit a time lapse short video or photos on the Southern Night Sky.

The Astro-Art competition requires no equipment and learners can submit paintings, sketches and any drawing that they create tagging SAAO or Scifest Africa on our social media platforms.

The competition will run for the whole of October with the first round of winners being announced live by Master KG on Friday, 23 October 2020 at 19h30 on our social media platforms.

By submitting you grant the SAAO permission to post all images on its website and social media.

COMING SOON THE NRF/SAAD APP





South Africa amateur astron discovers new strom on jupt by jove



South Africa amateur astron discovers new strom on jup by jove

South Africa amaleur astron discovers new strom on jup by jove



South Africa amateur astron discovers new strom on jup by jove

4	NRF 200 YANS
命	Home
FJ	Astronomy toda
	Calendar
Ø	Picture of the d
@)	Videos
Q	Podcast
сс С	Astrouiz
®	Visual Tour
	Work Space
۲	Competition

EDAY

.

CONLVCL

For any information regarding the event:



FREDY MASHATE manager@scifest.org.za

FOLLOVV LS



5) **@SAAO** @SAAOnews @SAAO_astro

f

0⁻



S) @GHTscifest f @scifestafrica **o o scifestafrica**