



Email: enquiries@nstf.org.za | Tel: +27 12 841 3987 |
<https://www.nstf.org.za/>



NSTF e-Newsletter

Technology drives war drives technology?

Message from the NSTF Executive Director, Ms Jansie Niehaus

The ethical application of technology is never guaranteed. Scientists, engineers, technologists and innovators have to advocate for the peaceful use of their inventions. [Read](#) the ED's message.

NSTF News

2022 NSTF-South32 Awards

2021/2022 Finalists announced: The finalists for the 2020/2021 [NSTF-South32 Awards](#), also known as the 'Science Oscars' of South Africa, have been announced. [Read more](#) about the categories, finalists and what's new this year.

Awards Gala Dinners and live broadcast: The NSTF will continue with the hybrid format of the Awards Gala Event this year, with two Gala Dinners taking place simultaneously in Cape Town and Johannesburg while broadcasting live to an online audience from both cities. The broadcast of the event will happen via the [NSTF YouTube channel](#). The date scheduled for the dinners and live broadcast is Thursday, **21 July 2022**.

The Awards Gala Dinners will be exclusive to the [finalists](#) and the [students](#) selected for the Brilliants Programme in their respective cities, as well as the [sponsors](#) and VIP guests. The science, engineering and technology (SET) community and the public will be able to watch the event live from the comfort of their homes. Watch your mailbox for further news.

This year's theme is Basic Sciences for Sustainable Development, and a Special Award will be made to someone who has made an outstanding contribution to SET and innovation in this area. (See below for more on this.)

Today's research ... tomorrow's innovation

The NSTF Brilliants Programme celebrates its 21st year with 19 students

The NSTF and pioneering sponsors are celebrating the 19 first year students from all nine provinces selected for their outstanding performance in matric physical science and mathematics in 2021, and their choices of further studies in science, technology, engineering and mathematics (STEM). This year 19 students were selected for the [Brilliants Programme](#), because of a tie in one of the provinces. [Read more](#) about the students selected for the 2021/2022 programme.

Tour to science-related facilities: The Brilliants students are treated to an educational tour every year. This year a nature conservation and biodiversity tour is being held,

sponsored by [The Lewis Foundation](#). Since the tour was not possible the past two years because of the COVID-19 pandemic, all three groups from 2020 to 2022 will be joining this tour, including the 2021 BEST students (Biological and Environmental Science Top students). The tour includes visits to [Maropeng and the Sterkfontein Caves](#), [Kloofendal Nature Reserve](#), [Walter Sisulu Botanical Gardens](#) and the [Bothongo Rhino & Lion Nature Reserve](#).

The current sponsors of the Brilliants programme are [South32](#), the [Department of Science and Innovation \(DSI\)](#), and the [South African Council for Natural Scientific Professions \(SACNASP\)](#).

SET for our future researchers, leaders and innovators!



Become an NSTF member and enjoy the benefits

The National Science and Technology Forum (NSTF) welcomes organisations involved in science, engineering and technology (SET) and innovation as new members. It is the largest, oldest and most representative stakeholder body of its kind. It represents more than 110 organisations, councils and institutions nationally and spans both the private and public sectors. [Read](#) about some reasons to join our community.

The NSTF's vision is a transformed country where SET and innovation contribute to a high quality of life for all who live in South Africa, where the profile of SET professionals is representative of the population's profile and where the education system is effective, particularly in terms of performance in SET subjects and promoting innovation.

Visit the website for more information [about the NSTF](#), the [history of the organisation](#) and [what we do](#). [Apply for membership](#) online.

SET for socio-economic growth!

World Environment Day – More

Threats posed by plant pests highlighted in radio talk

Following on the NSTF discussion forum on [Plant health in South Africa – threats to biosecurity, biodiversity and food security](#), in June last year, the NSTF has partnered with [Plaas/Farm TV](#) (YouTube channel) to broadcast a series of monthly talks during 2022 on the topic.

Fourth in the series of talks is Dr Roger Price talking to Plaas/Farm TV and RSG Landbou (Agriculture) about threats posed by invasive and migratory insects, pests, including locusts, the Fall Armyworm and the *Tuta absoluta* pest on tomato. He is the Research Team Manager: Insect Ecology, Plant Health and Protection, [Agricultural Research Council](#) (ARC). Dr Price was a presenter at the NSTF [Discussion Forum on Plant Health](#) in June 2021. His presentation is available on video on the [NSTF YouTube channel](#).

Interviews in the series so far:

1. Prof Mike Wingfield, Professor: Forestry and Agricultural Biotechnology Institute (FABI), University of Pretoria spoke about [tree and plant health](#).
2. Prof Wijnand Swart, Department of Plant Sciences, University of the Free State (UFS); and President: Southern African

sustainable, greener lifestyles

To mark the significance of the day on 5 June 2022, the NSTF [profiled the professional work](#) of **2021 NSTF-South32 Award Winner, Prof Paul Oberholster**, Director: Centre for Environmental Management, University of the Free State. Prof Oberholster received the prestigious 2021 NSTF-[Water Research Commission \(WRC\)](#) Award for his contribution to water resource management in South Africa with special reference to the field of biological passive wastewater treatment. Listen to his [life story and career talk](#), as well as a [media interview](#) with him by the Journalism Department, Tshwane University of Technology (TUT), a media sponsor of the NSTF-South32 Awards.

Society for Plant Pathology (SASPP) on [‘Whither \(or wither\) plant pathology in the next 50 years’](#) (about 3:25 minutes into the broadcast).

3. Prof Michelle Hamer, Director: Natural Science Collections Facility (NSCF), South African National Biodiversity Institute tackled the [role of natural science collections and biobanks in plant health](#).

Make your voice heard on SET-related policies and issues of concern!

IYBSSD celebrated world-wide

The [International Year of Basic Sciences for Sustainable Development](#) (IYBSSD 2022 - 1 January 2022 to 31 July 2023) aims to create awareness of the link between the basic sciences (NSTF defines basic sciences to be: mathematics, physics, chemistry, life sciences, earth sciences, and astronomy) and the [sustainable development goals \(SDGs\)](#). Excellence in the basic sciences is a precondition for applied sciences and ultimately, for Africa to find solutions to the many problems faced by our countries. “Basic sciences provide the essential means to meet crucial challenges such as universal access to food, energy, health coverage and communication technologies” (Michel Spiro, President of IUPAP).

IYBSSD is the annual theme adopted by the NSTF for 2022. A special award for an outstanding contribution to science, engineering and technology (SET) and innovation arising from research and development in the [basic sciences for sustainable development](#) in support of sustainable socio-economic growth in South Africa will be awarded at the [NSTF-South32 Awards](#) this year.

Join the celebrations

The [Academy of Science of South Africa](#) (ASSAf) invites organisations that are planning IYBSSD events and activities to share these through the [online form](#) created for this purpose. It will be reviewed, and once endorsed, added to the IYBSSD schedule/calendar. Visit the global [IYBSSD schedule](#) and/or the local [SA IYBSSD calendar](#) to see the South African and other events that are taking place all over the world.

The launch of IYBSSD will take place on 8 July 2022 at the UNESCO headquarters in Paris, France. This hybrid event will be available on the [main IYBSSD website](#). Also visit the [Africa IYBSSD website](#) and [IYBSSD 2022 South Africa - International Year of Basic Sciences for Sustainable Development - South Africa](#). The programme for this day can be [accessed here](#). All are welcome to join virtually.

Raise awareness of your career and work on STEMulator.org

[STEMulator](#) has embarked on a campaign for NSTF members to ‘fly their flag on the

Bursaries available

Find the latest news on bursaries in science, engineering and technology (SET) in the NSTF [Bursary Directory](#).

STEMulator'. Depending on their science, technology, engineering and mathematics (STEM) activities, members' 'flags' will be placed on relevant pages and linked back to their websites.

You are also invited to visit, make use of, and make suggestions for additional material to be added to the STEMulator.

STEMulator is a virtual exploratorium of animated STEM educational exhibitions. It is designed to ignite a spark of curiosity in young minds. In the STEMulator visitors can explore how things work, and the science and engineering behind them.

STEM careers related to the 'exhibits' are also explained.

Update: Next on the list of STEMulator's priorities is building a factory tile together with the NSTF [proSET member](#), the [Southern African Institute for Industrial Engineering](#). There will be a whole host of interesting items on this page to help our youth explore > discover > learn.

The development of the STEMulator is ongoing to include as many aspects of STEM as possible. Anyone with suggestions for material for any of STEMulator's pages, is more than welcome to contact [Ms Kgaugelo Pule](#).

STEMulator is a non-profit interactive learning platform initiated by the NSTF [proSET sector](#).



SET for our future innovators!

Currently available bursaries are:

- [Nedbank Bursary](#) (Deadline: 30 June 2022)
- [Bester Bursary](#) (Deadline: 30 June 2022)
- [WOA Fuels & Oils Bursary Programme](#) (Deadline: 30 June 2022)
- [Ford Motor Company of SA](#) (Deadline: Open all year)

Visit the NSTF [bursary website](#) for more information on [SET-related careers](#) and [role models](#) who work in these areas.

SET for life!

Obituary: Mike Schüssler

Renowned South African economist Mike Schüssler passed away in May after a short battle with cancer.

Schüssler was an economic consultant and founder of <https://economists.co.za> in 2005. He was an excellent communicator of important statistics that provided evidence for decision makers and the public. According to fellow economist Dawie Roodt, Mike was popular for his insights on radio and in other media, crunching financial data to inform ordinary people.

He was a consultant to major institutions such as National Treasury and organisations that could be regarded as SET-related, e.g. mines and pharmaceutical companies. According to Moneyweb, "His research also resulted in the development of unique indicators for the South African economy, which is one of his great legacies for the South African economic sector. In earlier years, he developed provincial economic barometers."

Our sincere condolences go to his family and colleagues.

Share 'n Dare: NSTF-South32 Award Winners inspiring the youth

The [Share 'n Dare programme](#) provides a platform for [NSTF-South32 Award winners](#) to act as role models and ambassadors for science, engineering, technology (SET), and innovation. Videos are excellent tools to inform learners about careers in SET and innovation. **Please share them** with anyone considering careers in these fields, or with those young people who have not decided on a field of study yet. The following new videos

have recently become available:

Mechanical engineering

Mechanical Engineer **Dr Boitumelo Innocent Ramatsetse** is a lecturer and researcher at the Educational Information and Engineering Technology division at the University of the Witwatersrand (Wits). Dr Ramatsetse is the 2021 TW Kambule-NSTF Emerging Researcher Award winner. He received the award for designing and developing a “Reconfigurable Vibrating Screen” (RVS) that separates mineral particles according to size and volumes as demanded by customers in the mining and mineral processing industries. It is a first-of-its-kind solution and is locally manufactured in South Africa. Watch the shortened version of the video by clicking [here](#), and the full length version [here](#).

Chemical engineering

ROC Water Technologies is the 2021 NSTF-South32 Innovation Award winner for a Small, Medium and/or Micro Enterprise (SMME). They received the award for research and development of the processing of liquid and solid wastes from the mining, power station and fertilizer industries to recover water of drinking quality and saleable products. Prof Jannie Maree has played a key role in the Technical Human Resource and Industrial Programme (THRIP) project of ROC Water Technologies, being partly sub-contracted to the University of Limpopo. Watch the full length video profiling chemical engineers Prof Maree and his colleague Mr Phalakwane Mpho Ramatholo by clicking [here](#). Click [here](#) for the shortened version.

SET for knowledge driven solutions!



proSET (Professionals in science, engineering and technology) is a sector of the NSTF representing about 40 professional and learned societies. This section shares news about [current members](#) and introduces new members of the [proSET sector](#).

- **Sponsorship opportunities available for the International Association for Impact Assessment South Africa (IAIAsa) International Climate Change Symposium**

The [International Association for Impact Assessment South Africa](#) (IAIAsa) is hosting an [International Climate Change Symposium](#) in Cape Town from 22-28 September 2022. The theme is “Celsius 1.5: Impact Assessment & Climate Change”. There are many sponsorship and branding opportunities available at the conference, including one for African delegate support. Contact [Sue George](#) for more information.

- **2022 ICT Skills Survey goes live**

The [2022 JCSE – IITPSA ICT Skills Survey](#), a trusted guide to the state of ICT skills in South Africa, is carried out by Wits University’s [Joburg Centre for Software Engineering](#) (JCSE) in partnership with the [Institute of Information Technology Professionals South Africa](#) (IITPSA). [Read more](#).

- **Geological Society of South Africa (GSSA) to sponsor limited number of students for courses**

The [Geological Society of South Africa](#) (GSSA), in conjunction with their event partner(s), will sponsor a limited number of students for selected online courses in 2022. [Read more.](#)

- **Consulting Engineers South Africa (CESA) challenges SANRAL's decision to cancel tenders**

[Consulting Engineers South Africa](#) (CESA) is challenging the recent decision by the SANRAL Board to cancel critical infrastructure tenders on the basis that their adjudication process was flawed due to the involvement of design engineers in the tender adjudication process. [Read more.](#)

- **Share your insights and innovations at an Institute of Municipal and Mechanical Engineering of Southern Africa (IMESA) branch seminar**

The Northern Provinces Branch of the [Institute of Municipal Engineering of Southern Africa](#) (IMESA) is inviting members to present papers/presentations at their Seminar on 26 August 2022. Make use of the opportunity to share your insights and innovations in your profession with branch colleagues. The submission deadline is 25 June 2022. [Click here](#) for details of the Branch Seminar and AGM.

- **Winner of best PhD presentation at BIO22**

Natasha Kitchin (PhD Psychiatry) from Stellenbosch University won the best PhD presentation at BIO22 – the [South African Genetics Society](#) (SAGS) and [South African Society for Bioinformatics](#) (SASBi) joint conference in May. She identified microbial differences between neurotypical and FASD diagnosed infants. It presents a promising finding for microbe-based therapeutic interventions.

- **South African National Biodiversity Institute (SANBI) celebrates two decades of deep insights on World Oceans Day**

On World Oceans Day 8 June 2022, [South African National Biodiversity Institute](#) (SANBI) marine scientist Prof Kerry Sink and her Deep Connections project team unveiled findings from a three-week research expedition at iSimangaliso Wetland Park. This year, the theme of World Oceans Day is 'collective action to revitalise our oceans', and this expedition is an excellent example of the teamwork needed to collectively understand, benefit from and protect South Africa's oceans. [Read more.](#)



SET-related policies currently open for public comment

Keep informed and have your say

- [National Water Act: Vaal River Catchment Management Agency Area extension of boundaries and operational area to include Orange Water Management Area: Amendments](#) (Comments invited)
- [Hazardous Substances Act: Group I, Category A, hazardous substances: Declaration](#) (Comment by 28 June 2022)
- [Hazardous Substances Act: Group I, Category B, hazardous substances: Declaration](#) (Comment by 28 June 2022)
- [Local Government: Municipal Systems Act: Regulations: Municipal Planning](#)

- [and Performance Management](#) (Comment by 30 June 2022)
- [Draft Regulations relating to the Surveillance and Control of Notifiable Medical Conditions](#) (Comment by 5 July 2022)
- [National Health Act and International Health Regulations Act: Regulations: Surveillance and control of notifiable medical conditions; Public measures in points of entry; Management of Human Remains; Environmental Health](#) (Extension of deadline for comments to 5 July 2022)
- [Renewable Energy Independent Power Producers Procurement Programme \(REIPPPP\) Tender No. DMRE/001/2022/23: Request for Qualification and Proposals \(RFP\) under Bid Window 6](#) (Comment by 11 August 2022)
- [Health Professions Act: Rules: Registration by medical practitioners and dentists of additional qualifications: Amendment](#) (Comments invited by 27 Aug 2022)
- [Health Professions Act: Ethical Rules of Conduct for practitioners: Amendments](#) (Comment by 27 August 2022)

SET-related policy news

Some articles included in the section below are opinion pieces. The opinions expressed in these articles do not necessarily reflect the views of the NSTF Executive Committee, Directors, Secretariat or Members.

Department of Science and Innovation

- [The DSI's Budget Vote Fact Sheet](#) (dst.gov.za)

Energy

- [New green power projects signed](#) (energize.co.za)
- [Tracking SDG 7: The Energy Progress Report \(2022\)](#) (polity.org.za)
- [Nersa registers 16 more distributed projects to add 211 MW](#) (polity.org.za)
- [Investing in critical minerals is the only way for a clean energy transition – report](#) (mg.co.za)

Environment

- [National waste collection and landfill management fleet intervention launched](#) (infrastructurenews.co.za)

Agriculture

- [What does the master plan say about land and water reform?](#) (agbiz.co.za)
- The [South African Agricultural Economic Fact Sheet](#), issued by the United States Department of Agriculture's Foreign Agricultural Service, has been updated to include the calendar year 2021 (agbiz.co.za)
- [ANC policy papers touch on key issues facing agriculture and land reform in South Africa](#) (theconversation.com)
- [SA needs to boost vegetable oils production](#) (businesslive.co.za)

Education

- [COVID left South African pupils far behind in maths and language skills](#) (theconversation.com)

Infrastructure

- [How the disaster declaration supports local municipalities](#) (IMIESA, May 2022)
- [The one thing the construction industry needs right now](#) (infrastructurenews.co.za)

Medicine and Health

- [Could rural students solve SA's doctor dilemma?](#) (bhekisisa.org)
- [First national Global Adult Tobacco Survey highlights the huge burden of tobacco use in SA](#) (samrc.ac.za)



The events posted below are correct as far as we could establish at the time of preparing this newsletter. Please check the relative websites for changes to dates and venues.

- [EuroScience Open Forum \(ESOF2022\)](#): Crossing Borders, Engaged Science, Resilient Societies, 365-day programme, [Leiden European City of Science](#), Netherlands
- [XX International Triple Helix Conference 2022](#): Italy, 27-29 June 2022 on the theme "Governing new and traditional partnerships for innovation and development in the post-pandemic world".
- Gautrain and Sunday Times GenNext discussion: The significance of data and analytics in your youth marketing, 30 June 2022, 13:00 – 14:00. Click [here](#) to register.
- [AMESA 27th Annual National Congress](#): Potchefstroom, 27 June – 1 July
- 8th ASSAf Presidential Roundtable Discussion: The Human Costs of Climate Change: Zoom meeting, 14 July 2022 at 10:00. Register [here](#).
- National Postdoc Forum 2022: Towards the Professionalisation of the Postdoc Career, Stellenbosch, 5-6 July 2022. For details contact [Dr Palesa Natasha Mothapo](#), tel: [021-8083907](#) or [Dr Francois van Schalkwyk](#)
- [International Congress of Entomology](#): Helsinki, Finland, 17-22 July 2022
- [57th Annual Conference of the Grassland Society of Southern Africa \(GSSA\)](#): Aldam Resort, Free State, 25-29 July 2022
- [Geosciences Information for Teachers \(GIFT\) Workshop](#): Cape Town, 6-8 August 2022
- [28th International Ornithological Congress 2022](#): Virtual congress, 15-19 August 2022
- [Infrastructure Africa Virtual Conference and exhibition](#): 17-18 August 2022
- [CESA Infrastructure Indaba 2022](#): Johannesburg, 18-19 August 2022
- [Africa Agri Tech Conference and Exhibition](#): Pretoria, 29 August - 2 September 2022
- [Public Health Association of South Africa \(PHASA\) annual conference](#): eThekweni (Durban), 11-14 September 2022
- [IAIA Climate Change Symposium](#): Celsius 1.5 : Impact Assessment & Climate Change: Cape Town, 26-28 September 2022
- [SA Innovation Summit 2022](#): Theme: Innovation goes viral. Cape Town, 27-29 September 2022. Side events will be taking place throughout that week.
- [5th edition of AI Expo Africa 2022](#): Johannesburg, 27-29 September 2022
- [Water Institute of South Africa \(WISA\) Biennial Conference and Exhibition](#): Sandton, 28-30 September 2022
- [33rd SAIIE Conference](#): Zimbali, KwaZulu-Natal, 3-5 October 2022
- [The inaugural Township Economies Conference and Expo](#): Ekurhuleni, 4-5 October 2022
- [WasteCon 2022](#): Johannesburg, 18-22 October 2022
- [85th IMESA conference](#): Adapting to our changing world: Gauteng, 2-4 November 2022

- [South African Geophysical Association's 17th Biennial Conference & Exhibition](#): Sun City, North-West Province, 28 November – 1 December 2022
- [World Science Forum](#): Cape Town, 5-9 December 2022
- [GeoCongress 2023](#): Stellenbosch, 11-13 January 2023
- [31st Conference of the Southern African Association for Research in Mathematics, Science and Technology Education](#): Bloemfontein, 17-19 January 2023
- [Africa Automation Technology Fair](#): Johannesburg, 9-11 May 2023
- [International Grassland Congress](#): Soil, Animal and Human Health: Kentucky, USA, 14-20 May 2023



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Science Councils and Statutory Bodies

- **SAMRC:** Nominations are invited for three [Public Health Innovation and Lifetime Achievement \(PHILA\) Awards](#): PHILA Annual Award; PHILA Emerging Practitioner Award; and the PHILA Lifetime Award. The deadline for nominations is 30 June 2022.
- [SAMRC launches a study to evaluate the effectiveness of the Moderna booster](#) (samrc.ac.za)
- **CSIR:** [CSIR's surveillance tech a giant leap to curbing poaching](#) (businesslive.co.za)
- **ASSAf:** [Read](#) the May/June issue of ASSAf's *SA Journal of Science*. Among the articles is 'How to do social distancing in a shack: COVID-19 in the South African context' by the journal's Guest Leaders, Jonathan Jansen and Shabir Madhi.
- **SABS:** [The South African National Standard for drinking water quality has been revised and is open for public comment](#). The public enquiry phase ends on 29 June 2022 (sabs.co.za)
- [The SABS makes headway in developing the first standard for menstrual cups in the continent](#) (sabs.co.za)
- **NRF:** [NEOFrontiers Programme to address socioeconomic and environmental challenges](#) (nrf.ac.za)

Higher Education institutions

- [Turkish ambassador launches digital fabrication laboratory at Wits](#) (wits.ac.za)
- [Wits Entrepreneurship Clinic will enable youth to become the future job creators](#) (wits.ac.za)
- [Funding boost for postgrad research into new-age metals](#) (wits.ac.za)
- [Wits Entrepreneurship Clinic will enable youth to become the future job creators](#) (wits.ac.za)

4IR and Information Technologies

- [Smart manufacturing provides new opportunities for South Africa](http://engineerit.co.za) (engineerit.co.za)
- [Young geeks rise to defend SA from ID fraud](http://itweb.co.za) (itweb.co.za)
- [Macrocomm, Bosch announce 4IR partnership to manufacture IoT devices locally](http://bizcommunity.com) (bizcommunity.com)
- [The role of AI and ML in cyber resilience](http://itweb.co.za) (itweb.co.za)
- [Ground-breaking project to monitor well-being of wildlife using robotics and AI](http://uct.ac.za) (uct.ac.za)
- [The Fourth Industrial Revolution: a seductive idea requiring critical engagement](http://theconversation.com) (theconversation.com)

Climate change and Environment

- [Study reveals that pollution kills 9 million people a year in Africa](http://infrastructurenews.co.za) (infrastructurenews.co.za)
- [Recycling hazardous used oil responsibly is essential to protect our environment](http://infrastructurenews.co.za) (infrastructurenews.co.za)
- [Ocean sustainability: 'Many knowledges are needed'](http://uct.ac.za) (uct.ac.za)
- [UP prof and students undertake climate change campaign with help of spekboom](http://up.ac.za) (up.ac.za)
- [Hotter Kalahari desert may stop hornbills breeding by 2027](http://theconversation.com) (theconversation.com)

Energy

- [Ford SA transitions to solar power](http://infrastructurenews.co.za) (infrastructurenews.co.za)
- [OPINION| Nuclear is South Africa's energy solution](http://mg.co.za) (mg.co.za)
- [Woolies rolls out electric fleet for online deliveries](http://itweb.co.za) (itweb.co.za)

Epidemics – human and animal

- [Unvaccinated South Africans told us why they weren't interested in having COVID jabs](http://theconversation.com) (theconversation.com)
- [Modern-day oracles? Meet the scientists tracking COVID's crappy future](http://bhekisisa.org) (bhekisisa.org)

Infrastructure

- [Calls for enhanced water conservation and collaborative efforts](http://infrastructurenews.co.za) (infrastructurenews.co.za)
- [Tshwane declares war on potholes with introduction of mechanised machine Jetpatcher](http://msn.com) (msn.com)
- [Construction industry can provide foundation for SA's unemployed youth](http://thebig5constructsouthernafrica.com) (thebig5constructsouthernafrica.com)

Medicine and health

- [Improving diabetes diagnosis in African populations](http://samrc.ac.za) (samrc.ac.za)
- [Respiratory virus 'kills 100,000 children under five'](http://scidev.net) (scidev.net)
- [Genetic risk scores could predict disease in Africans](http://wits.ac.za) (wits.ac.za)
- [South Africa's hunger problem is turning into a major health crisis](http://theconversation.com) (theconversation.com)
- [Artificial light may become a new weapon in the fight to control malaria](http://theconversation.com) (theconversation.com)

Science communication

- [Are you involved in scientific, technical or data activities?](#) The DSI, SAASTA and the HSRC wants to learn about the experience and training needs of

people involved in science communication activities. (hsrc.ac.za)

Space Science and Astronomy

- Square Kilometre Array South Africa: [World's First Mega-Science Project Hosted In Africa Comes Of Age](#) (dst.gov.za)
- [African sci-tech could drive future black hole discoveries](#) (wits.ac.za)
- [How visionary scientist Bernie Fanaroff put African astronomy on the map](#) (theconversation.com)

Zoology and Entomology

- [Beetles use mimicry to fool bees into feeding them](#) (up.ac.za)
- [UP researchers call for the urgent protection of bat-inhabited caves](#) (up.ac.za)
- [Zoology and Entomology delve deep into the biological control of invasive alien plants](#) (ru.ac.za)
- [Study proves West Coast crayfish can develop a taste for invasive mussels](#) (sun.ac.za)
- [Worms in the seas of southern Africa: we're on a journey to setting the record straight](#) (theconversation.com)
- [Seagrass meadows: getting to know these unsung heroes of southern Africa's oceans](#) (theconversation.com)

Opportunities

- **WIPO Summer School on Intellectual Property and Transfer of Technology:** The World Intellectual Property Organization (WIPO) Academy, the Department of Science and Innovation (through the National Intellectual Property Management Office), the Companies and Intellectual Property Commission (of the Department of Trade, Industry and Competition) and the University of Limpopo invite applications to participate in a hybrid summer school on intellectual property and technology transfer. [Click](#) to register and submit your application.
- [African researchers invited to apply for JWO Research Grant](#) (polity.org.za)
- [SA women invited to apply for cyber security scholarship](#) (itweb.co.za)



- [Professor Chris Machio appointed Visiting Associate Professor at the University of Johannesburg](#) (csir.co.za)
- [Marié Botha appointed as the President of the Aeronautical Society of SA](#) (csir.co.za)
- [Professor Benjamin Rosman is one of 18 early-career researchers in the world to be named CIFAR Azrieli Global Scholars for 2022-2024](#) (wits.ac.za)

About the NSTF

The National Science and Technology Forum (NSTF), established in 1995, is a broadly-representative stakeholder body for all science, engineering and technology (SET) and innovation organisations in South Africa, which seeks to influence policy formulation and delivery.

The NSTF Awards are unique in SA, recognising the outstanding contributions of individuals and groups to SET and innovation.

The science bursaries page provides information on bursaries and bursary providers for science, engineering and related studies.

STEMulator.org attracts learners and students to the exciting world of science, technology, engineering and mathematics (STEM). It provides a virtual world full of stimulating content to excite and inform the youth, including STEM career guidance. Established under the auspices of the NSTF proSET membership sector (Professionals *in science, engineering and technology*).

Disclaimer

The NSTF has taken all practical measures to ensure that the material contained in this newsletter is correct. The NSTF reserves the right to make changes as it deems necessary.

Privacy

Registration details submitted to the NSTF will be treated confidentially and will only be used by NSTF to communicate with its members and subscribers.

For more information

www.nstf.org.za

E-mail: enquiries@nstf.org.za

Tel: [+27 12 841 3987](tel:+27128413987) (Currently not in use due to NSTF staff working from home)

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