



S.E.T. for socio-economic growth

National Science and Technology Forum (NSTF)

eNews

Hydrogen production by water electrolysis: challenges and opportunities

Opinion piece by Prof Dmitri Bessarabov, Director: DSI National Center of Competence: Hydrogen Infrastructure (HySA Infrastructure) at North-West University (NWU)

Given the urgency to identify adequate solutions for decarbonising energy provision, the demand for “green” hydrogen is steadily increasing. This offers opportunities to countries like South Africa (SA), with favourable solar and wind energy conditions, mineral resources and existing hydrogen value chains and industries. However, there are technical, political, and regulatory challenges. *The HySA Centre at NWU is the leader in PEM water electrolysis research and development in SA and supports the implementation of the South African Hydrogen Society Road Map.* [Read](#) the opinion piece.

NSTF News

Discussion Forum news

Research and innovation towards sustainable economic growth

This hybrid discussion forum, in partnership with the [NSTF Science Councils and Statutory Bodies Sector](#) is coming up on 17-18 October 2023. Watch your mailbox for the invitation and spread the message!

Ocean science for sustainable development

Next up is an online discussion forum on Ocean Science for Sustainable Development on 8-9 November 2023, directly before the NSTF AGM which is on 10 November. Watch your mailbox for news.

Pitfalls of AI

Highlights of the popular [Pitfalls of AI](#) discussion forum were presented during the 9th edition of the [Science Summit at the 78th United Nations General Assembly \(UNGA78\)](#) in an online panel session, which took place on 15 September 2023. The presentations of the four speakers are now available on the [event page](#).

Make your voice heard!

Observing Arbor Week and Heritage Day

During September, NSTF recognised Heritage Month and Arbor Week, as a nationwide celebration of trees, environmental conservation, and community engagement. Trees are fundamental to life and a lifeline to a changing world. Read the [media release about Arbor](#)

[Week](#) that also recognised the lifelong work of Prof Mike Wingfield who won the 2020 NSTF-South32 Plant Health Award.

The NSTF [Heritage Day release 'Blending Western and traditional medicine for holistic health'](#) highlighted the outstanding contribution of the Mothong African Heritage Trust (MAHT) that developed the Mothong Heritage Site in Mamelodi, Pretoria under the guidance of the founding member, traditional doctor and Executive Director, Mr Ephraim C Mabena. The site was transformed from a wasteland with a horrid past to a serene botanical garden for the community. MAHT received the Non-Governmental Organisation (NGO) Award at the prestigious NSTF-South32 Awards in 2020.



Meet a Brilliants student

Mr Simphiwe Kubheka from KwaZulu-Natal was one of two students from the [NSTF's Brilliants Programme](#) who attended the [London International Youth Science Forum \(LIYSF\)](#) at Imperial College earlier this year. The NSTF is partnering with the LIYSF, and the [Department of Science and Innovation](#) is the sponsor of this endeavour. [Read](#) about Simphiwe Kubheka's experiences on the trip to the LIYSF.

Meet Simphiwe Kubheka

[Simphiwe Kubheka](#) is studying electrical and computer engineering at the University of Cape Town. He matriculated at Emlwaneni High School, Ladysmith.

"Being a South African citizen and watching my country going through the never-ending cycle of loadshedding has inspired me to try and come up with sustainable and environmentally friendly solutions to fix the electricity shortages."

Ukhozi FM interviewed [Brilliants students](#) Ms Zemfundo Mthembu and Mr Lifaletu Zikode at the NSTF-South32 Awards gala event on 13 July 2023. Listen to the podcast of this [interview](#) in isiZulu.

The NSTF supports STEM education with the aim of creating the researchers,

Bursaries available

Visit the NSTF [Bursary Directory](#) for the latest available bursaries in science, engineering and technology (SET):

- [Pharmaceutical Society of South Africa \(PSSA\)](#) (Deadline: 06 October 2023)
- [BBT Scholarship Programme](#) (Deadline: 16 October 2023)

The deadline of the following bursaries are all 31 October 2023:

- [DALRRD Bursary Provider](#)
- [ISFAP Bursary Programme](#)
- [Letsatsi Borutho Trust Bursary Programme](#)
- [Limpopo Department of Public Works Bursary Programme](#)
- [Potatoes South Africa \(PSA\)](#)
- [SAAFOST Bursary Programme](#)
- [Sibona Ilanga Trust Bursary Programme](#)
- [Subtrop Lindsey Milne Bursary Programme](#)
- [Subtrop SAAGA Bursary Programme](#)
- [V3 Consulting Engineers Bursary Programme](#)

Discover the STEM career fields that you are interested in a [book containing descriptions of careers and study fields](#). (STEM = science, technology, engineering and mathematics).

leaders and innovators for tomorrow's national system of innovation.

You can also watch inspiring stories and [career talks by scientists](#) on the [NSTF YouTube channel](#).

SET for life!

Meet NSTF-South32 Award winners

TW Kambule-NSTF Award: Researcher

The prize is sponsored by [proSET \(Professionals in SET\)](#), a sector of the NSTF representing more than 45 professional societies.

“...he remembers thinking, “this is so simple, why has nobody done this before?” (Chegou, on the discovery of a way to diagnose TB)

Prof Novel N Chegou, Professor: Division of Molecular Biology and Human Genetics, Department (Dept) of Biomedical Sciences, Faculty of Medicine and Health Sciences at Stellenbosch University (SU) was awarded for a life's work which has focused mainly on the immunology of tuberculosis. He developed new tools for the management of the illness and conducted research on new tests that can assist in the rapid diagnosis of tuberculosis.

[Read more.](#)

TW Kambule-NSTF Award: Emerging Researcher

The prize is sponsored by the [South African Young Academy of Science \(SAYAS\)](#).

“Not everybody is interested in being in academia, but people want to be in innovation. So it is very important for us to start generating data that lead to patents, so that we could open companies that will be focusing on diagnostics in SA.”

Prof Usisipho Feleni, Associate Professor and Thematic Area Leader: Applied Electrochemistry, Institute for Nanotechnology and Water Sustainability at the University of South Africa (Unisa) is a co-recipient of the 2023 award for her contribution in electrochemistry, with emphasis on electro-analytical sensors and biosensors that comprise new chalcogenide-based quantum dot materials, nanoparticles, nanorods and nanocomposites. These materials contain unique and specific features for use in electrochemical sensing and signalling of diseases such as HIV, TB and cancer, as well as monitoring water contamination. [Read more.](#)

“After further testing on the mole rats, Hart and his colleagues discovered that these creatures had evolved unique genes to bypass the pain response.”

Dr Daniel W Hart, Senior Research Fellow: Zoology and Entomology Dept, Faculty of Natural and Agricultural Sciences, at the University of Pretoria (UP) is a co-recipient of this award. He received it for his research that attempts to utilise concepts from evolutionary biology to address biological questions of health, biological, social and economic relevance to humans. His research focuses on using knowledge of evolutionary biology of mammals to improve treatments of human medical conditions and to predict future consequences of climate change. [Read more.](#)

Today's research ... tomorrow's innovation

The STEMulator

[STEMulator.org](#) is ready for its grand debut at the Eskom Expo for [Young Scientists International Science Fair \(ISF\)](#). It's a global showdown as young geniuses from 35 South

NSTF-South32 Award winners inspire Brilliant students

The NSTF hosted six [NSTF-South32 Award winners](#) to engage with students of the [NSTF Brilliant programme](#). In this

African regions join forces with participants from 10 countries. From 3 to 6 October the Expo in Boksburg will be buzzing with 330 local prodigies and 20 international contenders from, among others: Ghana, India, Kenya, Lesotho, Mexico, Mozambique, Namibia, Zimbabwe, Indonesia, and Turkiye. STEMulator will be there, hopefully giving curious minds a taste of the *hidden world revealed* with STEM in our world and information on STEM careers. (STEM = science, technology, engineering and mathematics.)

What can you do?

- Show STEMulator.org to a school learner – it's online and free!
- If you are a teacher, use it in the classroom
- Contact us for memory sticks to use or demonstrate STEMulator offline
- Explore it and learn things you didn't know
- Contact us with suggestions of content
- Contact us for CSI partnerships and funding opportunities

To contribute email Ms Kgaugelo Pule and ensure the next generation of STEM learners.

Explore>Discover>Learn – inspiring the next generation of STEM professionals

The logo for STEMulator features a stylized 'S' in blue and orange, followed by 'TEMulator' in orange. The 'T' is white with a blue outline. The background is white with a faint grid pattern.

session, the Award winners inform and motivate students in their studies and for their future careers. The Award winners who participated in the programme were:

- **Prof Usisipho Feleni**, Associate Professor and Thematic Area Leader: Applied Electrochemistry, Institute for Nanotechnology and Water Sustainability, University of South Africa (UNISA)
- **Prof Salome Maswime**, Obstetrician, Gynaecologist and Head: Global Surgery, Department of Medicine, University of Cape Town (UCT)
- **Prof Nosipho Moloto**, DSI/NRF/Nedbank SARCHI Chair in Energy Materials; and Research Professor: Inorganic Chemistry, University of the Witwatersrand (Wits)
- **Mr Tshupo Mangoele**, Chief Executive Officer and Founder: LignOrganic
- **Prof Jonathan Jansen**, Distinguished Professor: Education, Stellenbosch University (SU); and President: Academy of Science of South Africa (ASSAf)
- **Dr Philemon Mjwara**, Director-General: Department of Science and Innovation (DSI)

Listen to the [recording of the motivational talks](#).

SET for our future professionals!



proSET (Professionals in science, engineering and technology) is a sector of the NSTF currently representing 47 professional and learned societies. This section shares news about [current members](#) and introduces new members of the [proSET sector](#).

- **SAIEE 72nd Bernard Price Memorial Lecture**

Did you miss the [South African Institute of Electrical Engineers'](#) (SAIEE) 72nd Bernard Price Memorial Lecture on "Power Quality challenges that new technologies bring to distribution grids of the future" by Prof Jan Meyer? You can [view the lecture recording](#) on the SAIEE YouTube channel.

- **South African mathematicians shine at the International Mathematics Competition (IMC) 2023**

The International Mathematics Competition (IMC), dedicated to fostering a global community of mathematical enthusiasts, witnessed South African students making their mark on the international stage. Held in Blagoevgrad, Bulgaria, from 31 July until 6 August 2023, the IMC brought together university students from diverse backgrounds to compete, collaborate, and celebrate the beauty of mathematics. The [South African Mathematics Foundation](#) (SAMF) selected top-performing students from the 2022 Standard Bank South African Tertiary Mathematics Olympiad (SATMO), to participate in the competition. The team's performance saw them bringing home a gold medal, two bronze medals, and two honourable mentions. [Read more.](#)

- **Join SANBI and NASA for the Space Apps Challenge**

On 7-8 October 2023, the National Aeronautics and Space Administration (NASA) and [South African National Biodiversity Institute](#) (SANBI), along with local collaborators, are calling people from around the globe to join this year's NASA Space Apps Challenge, the largest annual global hackathon. The NASA Space App Hackathon fosters creative problem-solving and collaboration to address some of the most pressing challenges in space exploration and Earth science. [Read more.](#)

- **Nolitha Fakude Chairman of Anglo American Honoured with the Brigadier Stokes award by SAIMM**

The Brigadier Stokes memorial award is the highest achievement in the South African mining and metallurgical industry. The [Southern African Institute of Mining and Metallurgy](#) honoured Nolitha Fakude with this award in recognition of her service and contribution to the industry. [Read more.](#)

- **SAIMM announces William Joughin as president**

The SAIMM has sworn in William Joughin as the new president for 2023/2024. The SAIMM announced the new president for the Institute at the Annual General Meeting on 17 August 2023. William's presidential address focused on "Managing geotechnical uncertainty and risk in mining." [Read more.](#)

- **WISA welcomes promulgation of Regulation that regulates the professionalisation of Process Controllers**

Mr Dewald van Staden, [Water Institute of Southern Africa](#) (WISA) Process Controllers Division Lead, and registered Professional Process Controller welcomes Regulation 3630, which regulates the professionalisation of Process Controllers. Watch the [video](#) as he shares what this means for the water sector and WISA.

- **CESA Responds to the Announcement of a Construction Mafia Hotline**

In response to the recent announcement by the Department of Public Works and Infrastructure Minister Zihle Zikalala regarding the establishment of a call centre for the reporting of disruptions at construction sites in relation to the construction mafia, Chris Campbell, CEO of [Consulting Engineers South Africa](#) (CESA) says they have reservations about the effectiveness of a call centre as a solution. [Read more.](#)

- **CESA Aon Engineering Excellence Awards 2023 winners announced**

The CESA Aon Engineering Excellence Awards celebrate innovation, quality, outstanding workmanship and professionalism, which was evident in the entries for each category of the

Excellence Awards. CESA Chief Executive Officer, Chris Campbell congratulated the winners and finalists whilst stating that amidst economic challenges and sluggish growth, it is essential to recognise the pivotal role of consulting engineering. “While external factors may pose obstacles, our focus on delivering excellence must remain unwavering.” Click [here](#) to download the full press release.



SET-related policies currently open for public comment

Keep informed and have your say

- [Draft White Paper on Audio and Audiovisual Media Service and Online Content Safety: A New Vision for South Africa](#) (Comment by 9 October 2023)
- [Electricity Regulation Amendment Bill & Nuclear Regulator Amendment Bill](#) (Comment by 13 October 2023)
- [National State Enterprises Draft Bill 2023](#) (Comment by 14 October 2023)
- [Draft Policy Position on the Conservation and Sustainable Use of Elephant, Lion, Leopard and Rhinoceros](#) (Comment by 18 October 2023)
- [Draft Strategy for Reducing Food Losses and Waste](#) (Comment by 20 October 2023)
- [Green Paper: Development and Promotion of Tourism in South Africa](#) (Comment by 31 October 2023)
- [Draft Norms and Standards for Spatial Planning and Land Use Management \(SPLUM\)](#) (Comment by 12 November 2023)

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.

Agriculture

- [Cabinet approves action plan on food prices](#) (sanews.gov.za)

Environment

- [Window to reach climate goals 'rapidly closing', UN report warns](#) (un.org)
- [South African technical specification for local government and communities to adapt to climate change](#) (sabs.co.za)

Infrastructure

- [Neglecting infrastructure maintenance puts lives at risk, undermining economic growth](#) (engineerit.co.za)

Health and medicine

- [South Africa signs vaccine development and production financing agreement with Germany's KfW Development Bank](#) (dst.gov.za)

Women in Science

- [Celebrating the outstanding achievements of South African women in science](#) (dst.gov.za)



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

- [12th Oppenheimer Research Conference](#): Midrand, 4-6 October 2023
- [19th biennial International Conference on Accelerator and Large Experimental Physics Control Systems \(ICALEPCS\) 2023](#): Cape Town, 9-13 October 2023. Hosted by the South African Radio Astronomy Observatory (SARAO), the conference will be preceded by workshops on 7 and 8 October 2023.
- [CIGRE Southern Africa Regional Conference 2023](#): Pretoria, 24-27 October 2023
- [1st IWA Non-Sewered Sanitation Conference](#): Johannesburg, 15-18 October 2023
- [IMESA Conference 2023](#): Gqeberha, 25-27 October 2023
- [12th International Symposium on Pollination](#): Cape Town, 16-20 October 2023
- [IAIAsa GP in-person event](#): Unpacking recent Environmental Instruments & Biodiversity Offsets in EIA Processes, Sandton, 19 October 2023
- [Re-Connecting Human Capital with the Discourse of Digital Transformation to Achieve the United Nations Sustainable Development Goals](#): London - United Kingdom, 13-15 November 2023 (London - United Kingdom) (Face-to-Face and Online)
- [Southern African Sustainable Energy Conference \(SASEC23\)](#): Gqeberha, 15-17 November 2023
- [South African Geophysical Association's 17th Biennial Conference & Exhibition](#): Sun City, 28 November – 1 December 2023
- [16th Frank Warren Conference: Securing Africa's Future through organics chemistry research](#): Polokwane, 3-7 December 2023
- [Hydrogen Safety and Hazardous Areas Conference](#): Sandton, 4 and 5 December 2023
- [Science Forum South Africa](#): Pretoria, 6-8 December 2023
- [53rd Congress of the Southern African Society of Plant Pathology](#): Golden Gate National Park, Free State, 21-25 January 2024
- [13th South African Conference on Computational and Applied Mechanics \(SACAM\)](#): Stellenbosch, 22-23 January 2024. The call for abstract submissions is now open
- [RARE X – Africa's leading conference on rare disease treatment](#): Johannesburg, 14-17 February 2024
- [Africa Energy Indaba](#): Cape Town, 5–7 March 2024. It will feature a focused Hydrogen Forum.
- [2024 Ocean Decade Conference](#): Barcelona, Spain, 10-12 April 2024
- [The XX International Plant Protection Congress \(IPPCATHENS2024\)](#): Athens, Greece, 1-5 July 2024
- [GCCE2024 - Global Congress of Chemical Engineering](#): To sustainability and beyond: Cape Town, 6-11 October 2024



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Science Councils and Statutory Bodies

- **ASSAf:** [Winners of SA IYBSSD School Competition announced](http://assaf.org.za) (assaf.org.za)
- **ASSAf** [brings the SA IYBSSD to a close](http://assaf.org.za) (assaf.org.za)
- **NECSA:** [Necsa wants to get involved with small modular reactors](http://engineeringnews.co.za) (engineeringnews.co.za)
- **NRF:** [NRF-SAEON lauded for 21 years of world-class environmental research platforms for a sustainable society](http://nrf.ac.za) (nrf.ac.za)
- **SANSA:** [South Africa joins China's International Lunar Research Station](http://sansa.org.za) (sansa.org.za)
- **SABS:** [South African technical specification for local government and communities to adapt to climate change](http://sabs.co.za) (sabs.co.za)
- **SAMRC:** [SAMRC awarded a multi-million rand grant from USAID to develop and test novel HIV vaccines in Africa](http://samrc.ac.za) (samrc.ac.za)
- [An urgent call to include the manner of death on South Africa's Death Notification Form](http://samrc.ac.za) (samrc.ac.za)
- **SARAO:** [The first data release from the MeerKAT Absorption Line Survey \(MALS\)](http://sarao.ac.za) (sarao.ac.za)
- [MeerKAT Extension wins at CESA awards](http://sarao.ac.za) (sarao.ac.za)

Higher Education Institutions

- [UCT prof part of report which charts way forward for Paris Agreement on climate change](http://uct.ac.za) (uct.ac.za)
- [State-of-the-art simulation suite to fast-track teaching and learning in health sciences](http://uct.ac.za) (uct.ac.za)
- [UCT's d-school Afrika building bags 2023 SAICE Commendation Award](http://uct.ac.za) (uct.ac.za)
- [ChatGPT offers opportunities to renew traditional methods of assessment](http://sun.ac.za) (sun.ac.za)

4IR and information technologies

- [Two cross-border fibre routes, improving connectivity, driving intra-African Digital Trade](http://engineerit.co.za) (engineerit.co.za)
- [South Africa's ICT revolution will light the way](http://engineerit.co.za) (engineerit.co.za)

Agriculture

- [This is why South Africa's agricultural sector has rebounded](http://mg.co.za) (mg.co.za)

Biology

- [UP Whale Unit's aerial survey finds that southern right whale mothers dropped 23% in body weight](http://up.ac.za) (up.ac.za)

Energy

- [BEKA Schröder heads to KZN with solar streetlight solution](http://crown.co.za) (crown.co.za)
- [Bridging the energy gap with AI](http://wits.ac.za) (wits.ac.za)

Environment and Climate change

- [Collaborating for enhanced management of climate change risk in cities](#) (uct.ac.za)
- [Novel biopesticide discovered by Rhodes University PhD researchers gains global recognition, launches for commercial use in Africa and Europe](#) (ru.ac.za)

Palaeontology and Anthropology

- [‘Humanity’ exhibition reimagines the story of human evolution](#) (uct.ac.za)
- [Crocks’ ancestors grew old sloooowly](#) (wits.ac.za)

Science engagement

- [Taskeen Hasrod to represent South Africa in international FameLab competition](#) (Bizzcommunity.com): Taskeen Hasrod from Wits University has won the FameLab SA 2023 title for her innovative approach to a global problem. She developed a machine learning model that predicts the levels of byproducts in acid mine drainage, a significant issue especially in South Africa. As the national champion, Hasrod will represent South Africa at the International FameLab competition in Cheltenham, UK, on 24 November.
- **FameLab 2024 bookings now open:** If you would like to showcase the research being done at your institution or organisation, FameLab is a wonderful opportunity. Bookings for science communication workshops and heat events are now open for 2024. [Book here](#).

Space science and Astronomy

- [NASA's OSIRIS-REx lands samples of asteroid Bennu to Earth after historic 4-billion-mile journey](#) (space.com)
- [Counting meteors with an Amateur Radio beacon signal](#) (engineerit.co.za)
- [Meteorite discovery: unusual finds by South African farmer add to space rock heritage](#) (theconversation.com)



- [RCD Empowers Emerging Researchers: Celebrating Success at the 2023 South African Women in Science Awards](#) (samrc.ac.za): Thendo Makhado and Ramakgahlela Betty Sebati won the DSI-Ndoni Mcunu Fellowships: Doctoral Awards category
- [Distinguished Professor Jill Adler receives the Lifetime Achiever Award at the NRF Awards](#) (nrf.ac.za)
- [Esteemed Oppenheimer Memorial Trust grant for UCT Neuroscience Institute's Mark Solms](#) (uct.ac.za)
- [Sustainable chemist wins Rising Star Africa Prize](#) (uct.ac.za): Dr Wade Petersen
- [UJ's Prof Hassina Mouri wins prestigious Hypatia International Award for Medical Geology research](#) (uj.ac.za)
- [Kelly Chibale wins Royal Society Africa Prize 2023](#) (uct.ac.za)
- [SU student receives Kambule Award for best doctoral dissertation in computational sciences](#) (sun.ac.za): [Dr Arnu Pretorius](#)
- [Two young SU scientists win prestigious national awards](#) (sun.ac.za): Nyeleti Mabaso and Leanne Nortjé

- [Engineering student scoops first prize in optimisation modeling competition \(nwu.ac.za\)](http://nwu.ac.za): Hendrik Snyman won the Operations Research Society of South Africa (ORSSA) competition

Opportunities

- The **Biodiversa+ programme** has launched the [BiodivNBS Call for Research Proposals](#) on “Nature-based solutions for biodiversity, human well-being and transformative change”. All the details regarding the participating funding organisations and countries are available [here](#). Potential applicants can use the [partner search link](#) to look for a partner or a project to join. Currently, there are 15 projects looking for partners and 75 partners looking for a project to join. This represents 33 countries. Deadline for pre-proposals submission (mandatory): Friday 10 November 2023, 15:00 CET.
- [Call for applications: ICGEB-SA Women in Biotechnology PhD fellowships](#). Click [here](#) for more information. Closing date: 06 October 2023.
- **The Industrial Development Corporation of South Africa Limited (the IDC) Graduate Internship/Youth Opportunities Hub**: The IDC internship programme is a 24-month fixed-term contract that provides workplace experience underpinned by a carefully designed training program customised to allow one to gain valuable work experience, explore career paths, networking with professionals in the workplace while earning a stipend. [Read more](#).

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
- gathers stakeholders around [burning issues of national and global interest](#), across the public and private sectors, including matters of public policy
- includes a [network of professional societies in SET and STEM education](#) (STEM = science, technology, engineering and mathematics) - the [NSTF proSET membership sector](#).
- recognises, awards and profiles the outstanding contributions of individuals and groups to SET and innovation through the prestigious [NSTF Awards](#)
- runs and supports collaborative projects and [youth outreach](#), including recognition of top performance in mathematics and science, role modelling, bursary and STEM career information
- runs and supports the [STEMulator.org](#) which attracts youth and educators to Explore>Discover>Learn the world of STEM including careers. (Established by NSTF proSET)

For more information

www.nstf.org.za

E-mail: enquiries@nstf.org.za

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