

**From:** National Science and Technology Forum <enquiries=nstf.co.za@mail.eversrv.com>  
on behalf of National Science and Technology Forum <enquiries@nstf.co.za>  
**Sent:** Friday, 08 September 2017 5:30 PM  
**To:** Sue  
**Subject:** NSTF eNews: Science and technology driving NDP implementation, comments on SET policies, and more



### Message from NSTF Executive Director

The NSTF has been discussing [Science and Sustainable Tourism](#) in August – a vibrant and interesting [discussion](#). The [minutes](#) and recommendations from the 'Science and sustainable tourism' Discussion Forum are now available. A big thank you to [SA Tourism](#) for their sponsorship of the event. The NSTF Executive Director reflects on her personal experiences of seeing potential for sustainable tourism in South Africa, and SA Tourism's 4<sup>th</sup> quarter report. [Read more](#).



### NSTF News

#### Language and STEM Education at school – policy and research: 3-4 October 2017, Kempton Park, Gauteng

The NSTF is hosting a national [Discussion Forum on Language in Education](#) (#LangInEd). Language issues in South Africa have not been adequately addressed. In the STEM subjects (science, technology, engineering and mathematics), it is particularly worrying that the medium of instruction may contribute to the lack of progress in these subjects.

**Attend the Discussion Forum to explore the learning of language and the impact of**

**language on STEM subjects in education.** Click here to [register](#). This is a free event for employees of NSTF member organisations. The event takes place during the school holidays – all educators at public schools are welcome to attend for free.

### Our award winners: Prof Nancy Phaswana-Mafuya

Historically, national-level health studies in South Africa have focused on younger populations. Epidemiologist Prof Nancy Phaswana-Mafuya and her team, the World Health Organisation and the National Department of Health, conducted a large-scale national study in South Africa.

Phaswana-Mafuya was Research Director at the Human Sciences Research Council. She is now Deputy Vice Chancellor: Research and Innovation at North West University.

[Read more](#) about her work. She is one of 2 winners in the category: [2016/2017 TW Kambule-NSTF Awards: Researchers](#).

### August Share 'n Dare activities

**Activities:** Winners from the NSTF-South32 Awards have been sharing science, engineering and technology information with youth and communities around the country. For info on what happened in August, [click here](#).

### Thank you to SKA SA and Fuchs

**Foundation:** The NSTF Outreach Officer, Ms Fulufhelo Gelebe, was invited to collaborate around National Science Week. Ms Gelebe also received training.

**Collaborate with the NSTF:** Organisations that would like to collaborate on outreach with the [Share n Dare programme](#) – and have an [NSTF Award winner](#) speak to their staff/audience/community – please contact Ms Fulufhelo Gelebe on [enquiries@nstf.co.za](mailto:enquiries@nstf.co.za) or 012 841 4591.

### Bursary Directory (sponsored by the Fuchs Foundation)

Find the latest bursaries in science, engineering and technology (SET). Recently-added bursaries include those from:

- [SAIEE Bursary Programme](#)
- [Sappi Bursary Programme](#)
- [Masakh'iSizwe Bursary Programme](#)
- [HCI Foundation Bursary Programme](#)
- [DST-CSIR Inter-Bursary Support Programme](#)
- [DAFF Bursary Programme](#) - Department of Agriculture, Forestry and Fisheries
- [Power Group Bursary Scheme](#)
- [MP Department of Education Bursary](#)

Visit the [NSTF Bursary Directory](#) to find information on available bursaries, the different SET careers, and inspiring stories of people in SET. You can also look at those institutions/companies that usually provide bursaries ([www.nstf.org.za/bursary-provider/](http://www.nstf.org.za/bursary-provider/)) to find out when bursary applications open.

### New NSTF members

### Mzansi Bright Sparks

The NSTF would like to welcome its new members:

- [Moipone Academy Science Centre](#) – part of the Civil Society sector
- [Agritourism South Africa](#) – part of the Civil Society sector.

“Education is your key to success and it is the only way to close the door to poverty.”

Learn more about [Ndimiso Perfect Ndamane](#) who is studying BSc Electrical Engineering at the University of KwaZulu-Natal. He is one of the first-year students who were recognised in the [2016/2017 NSTF Brilliants Programme](#).



### Featured SET policy: NDP part 3 – Science and technology as drivers of development

In a series of articles, the NSTF is unpacking the NDP. Part 3 looks at how science and technology are drivers of development. This is in the context of Chapter 1 of the NDP, Key drivers of change. [Read more](#).

### SET-related policies currently open for public comment

**The NSTF urges the science, engineering and technology (SET) community to actively participate in policy development.** Commenting on policies plays a key role in developing a democratic SET environment and it is the primary mandate of the NSTF.

- [National Water Act: Mine Water Management Policy: Correction](#) (Comment by Thursday, September 14, 2017)
- [National Environmental Management: Waste Act: Regulations: Waste tyre](#) (Comment by Saturday, September 16, 2017)
- [National Nuclear Regulator Act: Categorisation of nuclear installations, level of financial security to be provided by licence holders and manner in which financial security is to be provided](#) (Comment by Wednesday, October 4, 2017)
- [Intellectual Property Policy of South Africa – Phase I \(2017\)](#) (Comment by Monday, October 9, 2017) - The Department of Trade and Industry is asking for comment. This policy responds to the National Development Plan's call for greater emphasis on innovation, improved productivity, more intense pursuit of a knowledge economy, and better exploitation of comparative and competitive advantages. It is an important instrument in promoting innovation, technology transfer, research and development, creative expression, consumer protection, industrial development and more broadly, economic growth.
- [Pharmacy Act: Rules: Good pharmacy practice: Additional minimum standards](#) (Comment by Tuesday, October 17, 2017)

- [Pharmacy Act: Competency standards for pharmacists](#) (Comment by Tuesday, October 17, 2017)
- [Health Professions Act: Regulations: Conduct of inquiries into alleged unprofessional conduct: Amendment](#) (Comment by Saturday, November 25, 2017)

## SET-related policy news

### Medicine and health

- [SA's Aids plan does not fix infrastructure backlog](#) – TAC (polity.org)

### Environment

- [Cabinet approves Coastal and Marine Tourism Implementation Plan](#) (gov.za)
- [DWS spend millions to promote the development of innovation in the water sector](#) (gov.za)
- [Minister Edna Molewa: Closing address at Global Youth in Biodiversity Network Workshop](#) (gov.za)
- [Industrial symbiosis wins victory in war on waste and pollution](#) (infrastructurene.ws)
- [DoE solar water heating programme delayed](#) (engineering news)
- [Bold Maritime Sector road map to position SA as a globally recognised maritimation by 2030 \(CSIR\)](#)

### Engineering

- [New PPPFA boosts transformation in construction sector](#) (infrastructurene.ws)

### Industry development

- [SA adopts BRICS industrialisation action plan](#) including expanding cooperation in technological development and innovation (SAnews.gov.za)

### Cross disciplinary

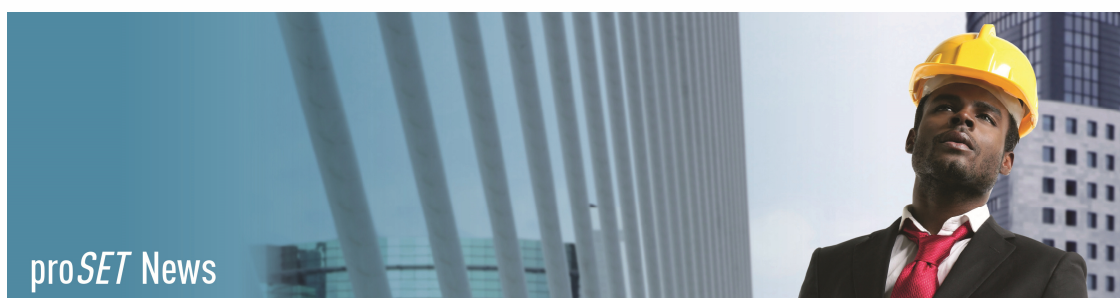
- [Three out of five black South Africans mired in poverty: StatsSA](#) (polity.org)



- [Global Evidence Summit](#): Cape Town, 13-16 September 2017
- [3rd National Conference on Global Change 2016](#): UKZN, online registration open 1 Sep, Abstract submissions close 30 Sep
- [National Research Foundation Awards](#): Bloemfontein, 14 September 2017
- [55th National Congress of the South African Association of Physicists in Medicine and Biology](#): Durban, 25-30 September 2017



- [CSIR Biennial Conference](#): Pretoria, 5-6 October 2017
- [66th Association of Municipal Electricity Utilities \(AMEU\) Convention 2017](#): Port Elizabeth, 8-11 October 2017
- [5th Biennial Carbon Capture & Storage Conference](#) : Durban, 18-19 October 2017
- [International Open Access Week](#): 23 October 2017 - 27 October 2017
- [2017 IMESA Conference](#) Sustainable engineering –back to basics for the future: Gauteng, 25 to 27 October 2017 (Institute of Municipal Engineering)
- [Africa Oil Week](#) oil and gas conference: Cape Town, 23 -27 October 2017
- [SA Energy Storage 2017](#): Johannesburg, 28-30 November 2017
- [3rd Malaria Research Conference 2017](#) - Malaria Elimination in Southern Africa: Priorities and Challenges: Johannesburg, South Africa, 7 - 9 November 2017
- [Science Centre World Summit 2017 \(SCWS2017\)](#): Tokyo, Japan, 15-17 November 2017
- [SA Energy Storage 2017](#): Ekurhuleni, 28-29 November 2017
- [UNESCO Merck Africa Research Summit - MARS 2017](#) – Call for Applications: Mauritius, 28-29 November 2017
- [Science Forum South Africa](#): Pretoria, 7 – 8 December 2017
- [Africa Energy Indaba](#): Johannesburg, 20-21 February 2018
- [2nd international Women in Science Without Borders \(WiSWB\)-Indaba \(conference\)](#): Johannesburg, 21-23 march 2018 - Abstract submissions open from 15 August - 13 October 2017 (<http://wiswb2018.co.za/abstract-submission/>).



- The [Water Institute of South Africa \(WSIS\)](#) will be holding its [2nd Annual Women in Water Event](#) in Johannesburg on 19 October 2017. The theme is 'Make a Splash'. The event will involve participants sharing experiences and achievements in the water sector with a specific focus on the responsibility of women. The aim is for improvement in the social, health and economic aspects of the life of women. Find further WSIS events and workshops [here](#).
- The [South African National Biodiversity Institute \(SANBI\)](#) is calling for comments on the National Status Report on Biological Invasions draft. Read [more](#). The website also hosts 2 sections of interest to educators and the public – [Animal of the Week List](#) and [PlantZAfrica](#) (information on popular southern African plants and related topics).

- [Poor pass rates: Don't blame mathematics](#) (ee publishers)
- [Stimulating Curiosity in Science – I am Science](#) (Goethe Institut)
- [MEC Debbie Schäfer on Southern and Eastern Africa Report on reading and mathematics](#) (gov.za)
- [Online assessment could improve math marks of deaf learners](#) (phys.org)
- [SA learners put future education to the test](#) (ITWeb)
- “[T]he decolonising project has by definition to be multilingual” – [Mahmood Mamdani: Sixteen years on, UCT's old nemesis returns to talk decolonisation](#) (Daily Maverick)
- [Globalization in the Information Age: Western, Chinese and Arabic Writing Systems](#) (Omniglot)
- [Can Having Highly Developed Cognitive Skills Stand in the Way of Learning a New Language?](#) (Omniglot)
- [10 Corporate Foreign Language Training Trends in 2016](#) (Omniglot)
- SA Journal of Science [articles on language](#)
- [HSRC publications](#) related to language and education:
  - African Languages in a Digital Age Challenges and opportunities for indigenous language computing, Osborn, D. 978-07969-2249-6
  - Language, Identity, Modernity The Arabic Study Circle of Durban, Jeppie, S. 978-07969-2175-8
  - Protecting Our Cultural Capital A research plan for the heritage sector, Deacon, H., Mngqolo, S. & Prosalendis, S. 978-07969-2034-
  - The Subtle Power of Intangible Heritage Safeguarding intangible heritage, Deacon, H., with Dondolo, L., Mrubata, M. & Prosalendis, S. 978-07969-2074-4
  - Unlearning the logic of race in the South African school, Soudien, C. 978-07969- 2380-6 Racial Redress & Citizenship



## SET Community News

### Universities

- [Is there a formula for academic success?](#) (Mail & Guardian)
- [Minister Blade Nzimande on Academic Ranking of World Universities](#) (gov.za)
- [Open Access in higher education in South Africa](#) (ITWeb)
- [Bogus academic journals undermine science in SA](#) (Business Day)

### Medicine

- [Scientific and non-scientific information in the uptake of health information: The case of Ebola](#) (sajs)
- [Could breakfast and lunch at schools reduce stunting?](#) (The Conversation)
- [New model helps in fight against deadly parasitic disease](#) (phys.org)
- [Monitoring outcomes is key to improving mental health treatment in South Africa](#) (The Conversation)
- [what3words Facilitating Township Healthcare](#) (ehealthnews)
- [Intervention with HIV-positive parents successfully increases HIV-disclosure to young children](#) (HSRC)
- [How hunger affects the mental health of pregnant mothers](#) (The Conversation)
- [HSRC looks at how young people experience their world](#) – and how this influences their health behaviours and risk assessments (HSRC)
- [Sub-Saharan Africa \(SSA\) faces multifaceted challenge of infectious diseases & diseases of poverty](#) (MRC)

## Human and Social Development

- [HSD researchers contribute to international publication on grandparenting](#) (HSRC)

## Engineering

- [Technology set to unleash mining innovation – Anglo's O'Neill](#) (polity.org)

## Industry development

- [The South African Energy Storage Technology and Market Assessment report](#) (ee publishers)
- [Women's representation in national science academies: An unsettling narrative](#) (SAJS)
- [Why Africa needs a science synthesis centre to tackle complex problems](#) (The Conversation)
- [Invest in infrastructure to retain Africa's scientists](#) (SciDevNet)
- ['SA must build a science industry'](#) (Mail & Guardian)
- [Africa's open data revolution hampered by challenges](#) (SciDevNet)
- [BI survey spotlights SA's data scientist shortage](#) (ITWeb)
- [Science and technology in support of small, medium and micro enterprises](#) (CSIR)

## Space science

- [New SA radio astronomy hub](#) (ee publishers)
- [4th Ministerial Meeting of the SKA Africa partner countries concluded by signing a memorandum of understanding to collaborate on radio astronomy](#) (SKA SA) plus Minister Naledi Pandor's remarks at the 4th African SKA Ministerial gala dinner (gov.za)

## Biology

- [The secret life of dodos, revealed](#) – SA researcher (phys.org)

- [Popular sungazer lizards under threat from poaching](#) (phys.org)
- [Three new species of shrimp found in False Bay](#) (Business Day)
- [Studying an elusive South African primate](#) (phys.org)
- [Investigating the death of a great white shark](#) (phys.org)

## Palaeontology

- [New insights into the survival techniques of a prehistoric beast](#) (The Conversation)

## Archeology

- [Theft of South African relics riles researchers](#) (Nature)

## Environment, climate change and energy

- [Tech makes small gains in rhino poaching fight](#) (ITWeb)
- [Future flows: global trends to watch on water and sanitation](#) (polity.org)
- [Agriculture as bad as deforestation for climate change, says report](#) (Business Day)
- [New data shows benefits of renewable energy](#) (ee publishers)
- [South Africa's first legal rhino horn auction opens \(polity.org\) + S.Africa's first online rhino horn auction sparks anger](#) (phys.org)
- [Young scientists tackle renewable energy projects](#) (ITWeb)
- [Municipal landfill gas-to-electricity project](#) (ee publishers)
- [SANDF assisting SANParks with combating poaching activities](#) (polity.org)
- [Fighting microplastics by focusing on the environmental impact of tyre wear](#) (infrastructurene.ws)
- [Measuring global biodiversity change](#) (phy.org)
- [Initiative aims to use nanotechnology to purify water](#) (SciDevNet)
- [Hydrogen economy vital part of sustainable energy future](#) (Mail & Guardian)

## Agriculture

- [Agriculture department confirms eight new outbreaks of bird flu](#) (engineering news)
- [Global warming reduces protein in key crops: study](#) (phys.org)
- [Delay in using GM crops making Africa lose benefits](#) (SciDevNet)





- [Women scientists celebrated at WISA 2017](#) (DST) + [SA Women in Science Awards 2017](#) (Mail & Guardian)
- [Excellence in engineering rewarded at #CESAAonAwards 2017](#) (infrastructurene.ws)
- [Prof Nancy \(Refilwe\) Phaswana-Mafuya has been appointed Deputy Vice Chancellor: Research & Innovation at North West University](#) from 1 October 2017 (North-West University)
- [BP Southern Africa appoints first black female CEO](#) (engineering news)
- [A lifetime of real stories liberated in new book on female academics](#) (MRC)
- [CSIR lauds first black female researcher at the organisation to receive doctorate in spatial statistics](#) (CSIR)
- [SAMRC President & CEO honoured with "Lifetime Achiever award"](#) (MRC)
- [Professor Charles van Onselen recipient of 2nd Annual HSRC Medal in Social Sciences and Humanities](#) (HSRC)

Please forward this e-mail to your colleagues, business contacts and all interested persons!

## Send us your news

The NSTF invites all our members, as well as all SET and innovation role players, to send us information on meetings, conferences and activities of interest to the broader S&T community. Please send us your news by the 20th of the month, for distribution at the beginning of the following month, to [enquiries@nstf.co.za](mailto:enquiries@nstf.co.za)

## Feedback

If you have any comments or suggestions on how we can improve this newsletter, please e-mail the NSTF Secretariat at [enquiries@nstf.co.za](mailto:enquiries@nstf.co.za)

## About the NSTF

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

The [NSTF-South32 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.

## 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](http://www.nstf.org.za)

E-mail: [enquiries@nstf.co.za](mailto:enquiries@nstf.co.za)

Tel: 27 12 841 3987

Fax: 27 12 841 3025

Non Profit Company Registration Number: 2007/029165/08

NPO Registration Number: 92042

Donor tax exemption for all donations to the NSTF



[Unsubscribe](#) • [Update Profile](#) • [View PDF](#) • [Share](#) • [Pause Subscription](#) • [View Online](#)

This email was sent to [operations@iaiasa.co.za](mailto:operations@iaiasa.co.za) on 08-09-2017 by National Science and Technology Forum,  
c/o CSIR Campus, Building 33 Room S140 Meiring Naude Road Brummeria, Pretoria, Gauteng,

Mailer is intended for opt-in communication only. If you feel this email is unsolicited please [report it](#) to us

Email Powered By Mailer

