NSTF e-Newsletter
Issue 2 | 2013

No longer "safe as houses"

Message from the NSTF Executive Director, Mac Jones

Welcome back to the NSTF e-Newsletter. In the month of March, the south coast of KwaZulu-Natal experienced disastrous storms. There was loss of life, displacement of many people and much damage to property. We need to think urgently of adaptation to global climate change, and to the need for more resilient infrastructure. I am presenting the discussion that has passed. Since last year, Gauteng has been experiencing more and more heat waves.

NSTF News

2013/2014 NSTF-South32 Awards

Announcing the Finalists: The finalists for the 2013/2014 NSTF-South32 Awards will be announced at the Gala Dinner can be attended in the KwaZulu Natalie at ccarter@nstf.co.za.

21st NSTF-South32 Awards gala dinner: The winners of the prestigious 2013/2014 NSTF-South32 Awards will be announced at the 21st Awards gala dinner. Book your tables and seats for the event, which will take place on Thursday, 27 June. The theme of the evening is "Celebrating 21 years of excellence". For more information on the Awards, contact Ms Ginette Del Agnagol-Traffic at ntsjoburg@nstf.co.za for information and bookings.

Discussion Forum on sustainable development and the chemical elements

Please find attached the chemical elements from the presentations of the Global Network Life Cycle Sustainability Assessment Workshop held in Cape Town on 18 May 2013. The event is hosted by the NSTF in partnership with the Department of Science and Technology and Cape Southern Africa.

The 28 presented 2013 the International Life Cycle Sustainability Assessment (PIPTIPTIN). The 28 recognizes the importance of raising global awareness of life cycle thinking, life cycle assessment and life cycle costing strategies which are important for sustainable development.

Read the original document and programme for background information.

Discussion Forum on chemical elements for South Africa's future: Read all about it

The Discussion Forum on chemical elements for South Africa's future, was aimed at generating ideas and new relationships, and to identify ways in which the chemical sciences, cultural and economic sciences, and humanities, and an complementary.

Some of the ideas emerging around REDs, and the Fourth Industrial Revolution with the potential focus of moving the NFL the NSTF and the Department of Science and Technology to raising the website of the Mandel. 2013/14 NSTF Discussion Forum on Chemical Elements for South Africa's future.pdf - 1mb.

A media release on mining and the left, the Discussion Forum on chemical elements, is available on the NSTF's Discussion Forum website.

Special newspaper supplement on the Periodic Table of Chemical Elements

Business Report, an NSTF Awards media partner since 2013, will be producing a special newspaper supplement on the Periodic Table of Chemical Elements (mentioned above).

The supplement will be the first promotional piece specifically on NSTF Discussion Forums. The NSTF annually provides for a high level platform through which the Science and Technology community can interact with the public and discussion with government and stakeholders on key priority areas of concern to the science engineering, technology (S&T) and innovation community. The Discussion Forum is a platform for the S&T community to present information on the S&T to a personal level and make it accessible and relevant to the public.

This NSTF supplement will increase awareness of the issues raised on the events on sustainability and chemical elements, and will provide a platform for the S&T community to present a unique opportunity for stakeholders in attention to South Africa's August data financial publication, called in The Star, Pretoria News, Cape Times and The Mercury. Contact Ms Ginette Hansen at ntsjoburg@nstf.co.za for more information.

Change of internal telephone extensions

Some of the internal telephone numbers at the NSTF Secretariat have changed. The following numbers are the ones uninterrupted. The contact numbers are:

Ms Jenelle Nicholas (Executive Director): +27 (0)12 841 3987
Mr Mac Jones (Programme Manager): +27 (0)12 841 3988
Ms Ginette Hansen (Event and Finance) and Ms Kgaogelo Tlale (Communities Manager): +27 (0)12 841 3977
Ms Ginette Hansen (Communication), Media and Communications and Ms Gabriela Carter (Communications): +27 (0)12 841 3980
Ms Nicholas Thomas (Outreach and Data Management): +27 (0)12 841 3981
Ms Nicholas Brown, (SAWTE Manager): +27 (0)12 841 3987

New NSTF members

The following new NSTF members are the following organisations that joined on 4 April:

- Capricorn Educational Resource Centre (Civil Societies Sector)
- Ekhaneni Foods (Business Sector - Food)
- Groundwork (Civil Societies Sector)
- Gift Lotto (Pty) Ltd (Business Sector - Gaming)
- South African Society of Biochemistry (Science Societies and Statutory Bodies Sector)
- Tshi Mbedzani Manufacturing Cooperative (Business Sector - Milling)

Become a member of the NSTF to support the work of the NSTF. The NSTF is a non-profit organisation that provides a consultative forum for the science, engineering and technology (S&T) and innovation public policy in South Africa.

Mission Bright Sparks

Mathematics Week is enabling mobilise at the University of Cape Town. Despite growing interest in mathematics, many students are ill-equipped with skills to the course. Mathematics Week is a week long event that's learners of 2013. Ms is one of the organisers of Mission Bright Sparks, an organisation for the outstanding marks in mathematics and physical sciences in National Senior Certificate examinations.

"You are not here in the world to be ordinary, you are here to be your best and to be awesome."

This service is sponsored by the Cadle Foundation.

Bursary Directory

The following bursaries in science, engineering and technology (SET) are available in the NSTF Bursary Directory:

- Shoprite Bursaries (Closes 30 June)
- SKI Bursary Programme (Closes 30 June)
- Sasol Bursary Programme (Closes 30 June)
- Gift Lotto Pty Ltd (Closes 30 June)
- South African Society of Biochemists (Science Societies and Statutory Bodies Sector)
- Tshi Mbedzani Manufacturing Cooperative (Business Sector - Milling)

Become a member of the NSTF to support the work of the NSTF. The NSTF is a non-profit organisation that provides a consultative forum for the science, engineering and technology (S&T) and innovation public policy in South Africa.

Featured S&T policy: Building safer communities (Chapter 12, NDP)

Chapter 12 of the National Development Plan (NDP) focuses on building safer and secure communities and reduce inequality in 2030. This section focuses on building safer communities. Read more

Click here for the complete document of the previous NSTF summaries (Chapters 1-12).

S&T-related policies currently open for public comment

Below is a list of S&T related policies currently open for public comment (by and deadline). Contact the relevant department if you are interested.

- International Trade Administration Act, International Trade Administration Commission and International Trade Administration Commission Levies (Closes 17 May 2013)
- Standards Act, Standards matters, Comments Invited (Closes 30 June 2013)
- Pharmacy Act, Good pharmacy education standards, Comments Invited (Closes 30 June 2013)
- Medicines and Medicinal Products Act, Draft, Consumer additives permit amendment regulations, Comments Invited (Comments by 7 June 2013)
- Tourism Amendment Bill, Tourism Amendment Bill, Comments Invited (Closes 30 June 2013)
- Tourism Amendment Bill, Draft (Comments by 14 June 2013)
- Medical Sciences Act, Regulations, Amendment, Comments Invited (Comments by 28 June 2013)
- National Health Act, Office of health standards compliance, Enforcement policy, Comments Invited (Closes 30 June 2013)
- National Forests Act, Interface to Marine Biota Forests Properties as Forest Nature Reserves under section 9(1) of the Act, Comments Invited (Comments by 12 July 2013)
- Animal Diseases Act, African horse sickness, Comments Invited (Comments by 26 July 2013)
- Manufacturing Standards Board, Expansion Draft of the proposed Directive on the Application of Standards of CRAFT by Public Entities that Apply PFMA Standards, Comments Invited (Comments by 31 July 2013)

S&T-related policy news

- Standard Bank withdraws funding of one over 20P projects in DR (ee.co.za)
- Finance model for energy projects in Africa needs to change (businesstech.co.za)

Environment and climate change

- Why South Africa needs an independent water regulator (mg.co.za)

Medicine and health

- Are foreigners creating poor jobs and healthcare? (mediaclue.com)

4th Industrial Revolution and technology:

- Government goes electronic (businesstech.co.za) (media.co.za)
- Internet of Things helps feed the masses (engineering.com)

- Occupational Health and Safety Trade Exhibition, Johannesburg, 14-16 May 2013
- Secure South Africa, Johannesburg, 15-16 May 2013
- Seminar on Innovation for Industrial Development (I4ID): Protection of Intellectual Property Rights, Pretoria, 16 May 2013
- Road to registration for mentors, supervisors and IPD practitioners: SACE Midrand, 21 May 2013
- 2nd International Annual Congress on Contraceptives on Cannabis based Medicinal Products, Johannesburg, 23-24 May 2013
- Marine Health Symposium, Pretoria, 30 May 2013
- Road to Registration for Mature Engineers, Technologists and Technicians: SACE Durban, 30 May 2013
- Setting acquainted with water resource management: Cape Town, 11-12 June 2013
- Conference on Science, Technology and Innovation Policy: Science and Public Goods in Africa, Nairobi, Kenya, 14-21 June 2013
- Small Business Indaba: Johannesburg, 26 June 2013
- Manufacturing Indaba: The role of manufacturing in Africa, Johannesburg, 26-28 June 2013
- Launch of Manufacturing Indaba's Industrial Future: Manufacturing Indaba, 26-28 June 2013, Email: info@manufacturingindaba.co.za
- ESKA & ZSSA Combined Biennial Congress: CBMS KZ, Pretoria, 7 July 2013
- Conference on the 2013 Lithopanda economic crisis and current events: Durban, 20 July 2013
- Speaking to the Stars IAU2012 International Conference Series: Kenye Resort Sun, South Africa, 22-26 July 2013
- 9th EcoBuilder: Polokwane, 30 July - 2 August
- International Petrochemicals Meeting 2013: Cape Town, 31 July - 2 August 2013
- Setting acquainted with water resource management: SACE Midrand, 20-22 August 2013
- Road to registration for mentors, supervisors and IPD practitioners: SACE Johannesburg, 27 August 2013
- 2nd International Conference on Petroleumography: Sydney, Australia, 2-4 September 2013
- 45th International Trade Fair Conference: Cape Town, 11 - 13 September 2013
- 12th Annual SA Innovation Summit: Cape Town, 11-13 September 2013
- The International Society for Ecological Modelling Global Conference 2013: Newburg, Cape Town, 16-20 September 2013
- EduTECH Africa 2013: Johannesburg, 9-10 October 2013
- International Conference on Financial Services, Trade and Economic Growth: International Financial Services Durban, 9-11 October
- World Water Week in Africa: Stockholm International Water Institute (SIWI) has been appointed by the Secretariat of the World Water Week in Stockholm to organise this week as a global hub. You can prepare to celebrate this day in 2020 and find many ideas and tools on the website of World Water Week in Africa.
- Africa Energy Indaba Front Transformation to Transition: Cape Town, 3-4 March 2014

- Members of NSTF in the media?: (Professional Societies) sector are featured in every newsletter. This month the **South African Institute of Electrical Engineers** (SAIEE) is featured in the **Science and Technology Society** and also profiled their five organisations were established in 1904.
- Formed in 1904, the South African Institute of Electrical Engineers (SAIEE) has been at the forefront of the development of electrical engineering, and its membership will determine are professionally engaged in the full range of electrical, electronic, computer, information and communication technology, telecommunications, measurement and control, mining, and power infrastructure. The institute's mission is to promote the interests of its members and the community and to the steady advancement of technology. Learn more about its mission, objectives and work of the Institute by visiting their website.
- The Society for Ecological Modelling Global Conference 2013 - Ecological Modelling in Physiology and Ecology: was founded in 1980. The organisation's mission is to promote general objectives are the advancement of science, technology and the arts, as well as the promotion of the interests of its members and the community at large wherever feasible. It also aims to deliver a service to the community. The organisation's vision is to be a leading organisation in the field of science, technology and innovation excellence, fairness and exemplary scientific, moral and democratic values. Read more about the organisation of their website.
- **SACE accredited online CPD platform:** The South African Council for Educators (SACE) announced its new CPD platform with the launch of Read the Journal papers for CPD. Read more.

A guide to government funding for SMEs

The Department of Science and Technology has released a guide to assisting that small businesses. SME South Africa has compiled a training guide to the government funding available to small, medium and micro enterprises (SMEs) and other entrepreneurs.

Read more about the call on start-ups, incentives and equity funding in the guide.

Universities and higher education

- First accredited Automated Weather Station unveiled at UP campus (ee.co.za)
- How to approach the revolution in university publishing (theconversation.com)
- Rhodes students' idea puts them in the first 50 international prize finalists (businesstech.co.za)
- UWC raises eyebrows exploring link to Jesus on MTn Wifi site (mybroadband.co.za)

Science Councils and Statutory Organisations

- Landmark AfDB Study on Research Publishing Launched (sawtef.org.za)

Medicine and health

- Diseases deal massive blow to productivity in Africa (ee.co.za)
- Fear we are developing microorganisms resistant to drugs (theconversation.com)
- First population dataset to track South Africans' health and wellbeing (dst.gov.za)
- UK report warns of disastrous consequences of antibiotic resistance (theguardian.com)

Astronomy and space science

- SA applies for the Moon - but at what cost to mining? (thecommunity.com)
- Which young South African company joined a top Microsoft accelerator (www.ee.co.za)
- SKA Construction completes design of Science Data Processor (www.ee.co.za)

Environment, climate change and energy

Environment

- Cycles can actually environmental sensitivity screening (ee.co.za)

Climate change

- Scientists see fingerprint of warming climate on droughts going back to 1850 (phys.org)
- Climate change experiments are falling humanity and speeding up climate change. New report from UN national assessments reveals warm up will is leading to end of (CFSD) (sawtef.org.za)

Energy

- Rhino's only nuclear plant to be a major energy (technomad.co.za)
- Re-imagining waste to energy for micro-generation (thecommunity.com)
- The critical role of buildings in the green energy transition (ee.co.za)
- Nuclear power plant decommissioning and waste management (phys.org)
- Hydro power units to South Africa's IPP projects (ee.co.za)
- Hybrid energy storage systems boost hybrid renewable energy systems performance (ee.co.za)
- Renewables exceed 3% in social stage 5 and 6 load shedding (ee.co.za)
- Concrete contribution to solar energy (infrastructure-news.co.za)

Agriculture

- Sasol leading the effectiveness of private finance blending in ensuring that small farm farmers are not left behind (sawtef.org.za)

Engineering

- Sasol leading the effectiveness of private finance blending in ensuring that small farm farmers are not left behind (sawtef.org.za)
- Cycle to repair infrastructure after SZA floods estimated at R-600 million (businesstech.co.za)

Technology and the 4th Industrial Revolution

- South African and punching technology to go global (technomad.co.za)
- Implementing artificial intelligence in industrial manufacturing (ee.co.za)
- Tech isn't all the correct series, it's make it more poverty (thecommunity.com)
- Tech firms and Microsoft Kenya aim to weaken mobile money (ee.co.za)

Science Communication

- 2014 all-around Minister: Congratulations to Kenedilwe Nkoyane from the Council for Scientific and Industrial Research (CSIR) and the Tshwane University of Technology (TUT) for being the 2014 Minister's Awards for Outstanding Contribution to Communication. From left(L) to Nanotechnology and Water Research Group, Dr Ms Nkosi, Ms Nkoyane, Ms Ntombi Ntombela from Stellenbosch University. Read more about Future Leaders
- Opportunities

- The Department of Science and Technology (DST) calls for nominations for the 2014 Minister's Awards for Outstanding Contribution to Communication. Closing date for nominations is 30 June 2013.
- Entries for the Whitehill Pitching Day will be accepted until 5 June 2013. Finalists will be given up to 20 minutes to pitch their business idea. Contact Ms Ginette Hansen at ntsjoburg@nstf.co.za for more information.
- Insights Environmental Entrepreneurship Mentor Initiative: Call for application of entrepreneurs younger than 35 who have institutionalised, are living in Africa and are interested in being mentored by a leading entrepreneur. The mentorship aspects to natural resource management, climate change, food security, water management, waste management, and sustainable energy. Mentors will be available to attend a five-day mentorship workshop in Gauteng from 1-5 July 2013. Deadline for applications: 30 May 2013.
- Call for proposals: Research Grants: The IPS has been open to compete for R10m in research funding & scholarships. Entries close on 15 July 2013.
- MacTech: a member of the NSTF, offers graduates in STEM fields the opportunity to work in the field of their choice. Graduates can apply for the Young Science Innovation Fair as a volunteer judge. Read more.
- The Department of Higher Education and Training (DHET), and therefore Universities South Africa (USA), is inviting all NRF rated SA academics to apply for the Association of Academics Programme (AAP). The programme is aimed at transforming both the composition and the pace of teaching and research staff at South African universities. The AAP is open to all academics at universities and postgraduate students (SA citizens) who are from registered or potential on post under the programme with guaranteed tenure at the end of the six year period. Since enquiries to Ms Nicolina Carter at carter@nstf.co.za

- South Africa's 4th world in mathematics study: (www.ee.co)
- Elsevier's COS plans international research institute (ee.co.za)
- SA baby seeks to make teacher Mitzeki Smith after national order honour (mweb.com)
- Bursary Council elected as Fellow of the Royal Society: (mybroadband.org)
- Minister Nzimande launches congratulatory exercise on national medals (dst.gov.za)
- Dr Ms Ntombi Ntombela from Stellenbosch University, Nanotechnology and Water Quality Research Group (Professor Michael Pillay) Read more

Please forward this email to your colleagues, friends and family.

Send us your news

Do you have an upcoming event or event recap? SET and innovation news and events, or stories or information on meetings, conferences and activities of interest to the broader SET community. Please, contact the NSTF Communications Unit at +27 (0)12 841 3980 or send an email to Ms Gabriela Carter at gabriela@nstf.co.za.

Feedback

We welcome comments or suggestions on how we can improve this newsletter, please e-mail the Communications Unit.

About the NSTF

The National Science and Technology Forum (NSTF), established in 1997, is a statutory mechanism for consultation between the science and technology community and the public, and between the science and technology community and government.

The NSTF SAWTEF Website lists entities in SA, recognising the outstanding contributions of individuals and organisations to S&T.

The www.sawtef.org website contains information on the South African Women in Science and Engineering Forum and awards.

Disclaimer

The NSTF has taken all reasonable measures to ensure that the material contained in this newsletter is accurate. The NSTF expressly disclaims liability for any errors or omissions in the material contained in this newsletter.

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