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NSTF-South32 Awards

Today's research ... tomorrow's innovation

Finalists announced: 2017/2018 NSTF-South32 Awards

Recognising excellence and outstanding contributions to science, engineering and technology and innovation in South Africa

The [National Science and Technology Forum \(NSTF\)](#) is pleased to announce the group of [finalists](#) contending for the prestigious [NSTF-South32 Awards](#). This is the 20th year of the annual NSTF-South32 Awards.

The 20th year celebration: [The NSTF Awards](#) were established in 1998 as a collaborative effort to recognise outstanding contributions to science, engineering and technology (SET) and innovation by SET-related professionals and organisations in South Africa. This includes experienced scientists, engineers, innovators, science communicators, engineering capacity builders, and organisational managers/leaders, as well as data and research managers.

Our partner: South32 is a metals and mining company that de-merged from BHP Billiton in 2016. It took over the co-branding [sponsorship](#) agreement for the annual NSTF Awards.

The 'Science Oscars': The [NSTF-South32 Awards](#) are referred to as the 'Science Oscars' of South Africa. They are the largest, most comprehensive, and most sought-after national awards of their kind in the country. They were also the first science awards in South Africa.

NSTF-South32 Awards' theme: The theme for the 2017/2018 NSTF-South32 Awards is **Sustainable Energy for All**. This is in recognition of the International decade of Sustainable Energy (2014-2024) as declared by United Nations. The 20th annual [Awards Gala Dinner](#) will celebrate this theme on 28 June 2018.

What's new this year?

New features were introduced for some categories and the criteria as follows:

- **Innovation awards:** The [Innovation Category](#) has greater emphasis on 'innovation'. The Research for Innovation Awards is now the 'Awards for Innovations and their research and/or development'.
- **Research categories:** All research categories are now open to anyone thoroughly experienced in research, regardless of whether they have a PhD. We have also strengthened the focus on further development of outputs towards innovation.
- **Special Annual Theme Award:** This year the NSTF's [special annual theme](#) award is for a contribution to SET and innovation towards [Sustainable Energy for All](#) in South Africa.

The NSTF's vision

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 nation's diverse population and where the education system is effective, particularly in terms of performance in SET subjects and the promotion of innovation.

Realising the vision: The NSTF-South32 Awards is the NSTF's flagship event and one among [other strategic activities](#) through which the NSTF realises this [vision](#). Partnerships for specific awards (such as that with the Water Research Commission, GreenMatter, and Eskom) recognise contributions that have the potential to make a positive impact on South Africa, and on the world.

2017/2018 NSTF-South32 Awards finalists

It is an extraordinary honour to be an Award [finalist](#); given the quality of the [nominations](#) received, the fierce competition that [nominees](#) face, and the growing interest from the community over the years.

Join the NSTF [membership](#) and pioneering [partners/sponsors](#) in applauding the [2017/2018 NSTF-South32 Awards finalists](#). These comprise individuals, teams and organisations, as applicable, who have made an **outstanding contribution to SET and innovation in South Africa** under the [categories](#) below:

- *Text in italics at the end of the citation of the nominee indicates that a nominee has been nominated under more than one category*
- *Listed alphabetical according to surname of nominee or name of team/organisation under each category*

<p>Lifetime Award (by an individual over a lifetime – 15 years or more)</p>	<ul style="list-style-type: none"> • Bradley, Prof John – Honorary Professor, Department (Dept) of Education, University of the Witwatersrand (Wits) • Harvey, Prof Brian – Professor, Division of Pharmacology, Programme Leader: Centre of Excellence for Pharmaceutical Sciences, School of Pharmacy, North-West University; Programme Leader: South African Medical Research Council Unit on Risk and Resilience, University of Cape Town • Maaza, Prof Malik – Senior Scientist: National Research Foundation (NRF) Nanosciences LABS and United Nations Educational, Scientific and Cultural Organization Africa Chair, College of Graduate Studies, University of South Africa <i>and also in the NSTF-GreenMatter category and the Special Annual Theme Award</i> • Owen-Smith, Prof Norman – Emeritus Research Professor, School of Animal, Plant and Environmental Sciences, Wits • Pityana, Prof Sisa – Principal Researcher, National Laser Centre, Council for Scientific and Industrial Research (CSIR) <i>and also in the Engineering Research Capacity Development category</i> • Rubidge, Prof Bruce – Director, Dept of Science and Technology-NRF Centre of Excellence in Palaeosciences, Wits • Stacey, Prof TR (Dick) – Professor Emeritus, School of Mining, Wits <i>and also in the Engineering Research Capacity Development category</i> • Wall, Prof Kevin – Part-time Extraordinary Professor, Dept of Construction Economics, University of Pretoria (UP), retired as CSIR Built Environment Fellow <i>and also in the NSTF-Water Research Commission category</i> • Xia, Prof Xiaohua – Professor in the Dept of Electrical, Electronic and Computer Engineering, UP <i>and also in the Special Annual Theme Award category</i>
<p>TW Kambule-NSTF Awards: Researcher (contribution to research and its outputs over a period of up to 15 years as a researcher, predominantly in South Africa)</p>	<ul style="list-style-type: none"> • Fuller, Prof Andrea – Professor: School of Physiology, University of the Witwatersrand (Wits); Director: Brain Function Research Group, Wits; Extraordinary Lecturer, Department (Dept) of Paraclinical Sciences, Veterinary Faculty, University of Pretoria (UP) • Hui, Prof Cang – Professor and Dept of Science and Technology (DST)/National Research Foundation (NRF) South African Research Chairs Initiative (SARCHi) Chair: Tier 1: Dept of Mathematical Sciences, University of Stellenbosch (SU); Research Chair: African Institute for

	<p>Mathematical Sciences (AIMS); Core Team Member: DST/ NRF Centre of Excellence for Invasion Biology, SU</p> <ul style="list-style-type: none"> • Lall, Prof Namrita – Professor and DST/NRF SARChI Chair: Plant Health Products from Indigenous Knowledge Systems, UP • Loots, Prof du Toit – Research Director: Human Metabolomics, North-West University (NWU) • Malan, Prof Leoné – Professor in Neurophysiology, Hypertension in Africa Research Team, NWU • Matsha, Prof Tandi – Professor and Head, Dept of Biomedical Sciences, Cape Peninsula University of Technology • Mellado, Prof Bruce – Professor, School of Physics, Faculty of Science, Wits <i>and also in the Corporate Innovation category</i> • Ndwandwe, Prof Muzi Osman – Executive Director, Richards Bay Campus, University of Zululand • Nyembwe, Dr Kasongo – Senior Lecturer, formerly Head (2004-2016), Dept of Metallurgy, University of Johannesburg • Pretorius, Prof Etheresia (Resia) – Professor and Head, Dept of Physiological Sciences; and Director, Applied Morphology Research Centre, Dept of Physiology, SU
<p>TW Kambule-NSTF Awards: Emerging researcher (contribution to research and its outputs over a period of up to 6 years in research, predominantly in South Africa)</p>	<ul style="list-style-type: none"> • Becker, Dr Thorsten – Senior Lecturer, Department (Dept) of Mechanical and Mechatronic Engineering, Stellenbosch University; and Visiting Lecturer, Dept of Mechanical Engineering, University of Cape Town (UCT) • Bezuidenhout, Prof Daniela – Associate Professor, Inorganic Chemistry, School of Chemistry, University of the Witwatersrand (Wits) • Collinson, Mrs Wendy – Wildlife and Roads Project Executant, Endangered Wildlife Trust • Fosso-Kankeu, Prof Elvis – Associate Professor, School of Chemical and Minerals Engineering, University of the North-West <i>and also in the NSTF–Water Research Commission category</i> • Manzi, Dr Musa – Senior Researcher and Director, Seismic Research Centre, School of Geosciences, Wits • Marakalala, Dr Mohlopheni – Senior Lecture: Division of Immunology, UCT • Mpofu, Prof Khumbulani – Professor, Gibela Research Chair in Manufacturing and Skills Development, Tshwane University of Technology <i>and also in the Engineering Research Capacity Development category</i> • Musyoka, Dr Nicholas – Senior Researcher in energy materials research, Council for Scientific and Industrial Research • Yacoob, Dr Sahal – Senior Lecturer, Dept of Physics, UCT

<p>Management Award (contribution through management and related SET and innovation activities over the last 5-10 years)</p>	<ul style="list-style-type: none"> • Jandrell, Prof Ian – Personal Professor, School of Electrical and Information Engineering; and Executive Dean, Faculty of Engineering and the Built Environment; and Joint leader, High Voltage and the Lightning/Electromagnetic Compatibility Research Group, Wits <i>and also in the Engineering Research Capacity Development category</i> • Motaung, Prof Keolebogile – Assistant Dean: Postgraduate Studies, Research, Innovation and Engagement, Faculty of Science, Tshwane University of Technology; and Founder: Global Health Biotech (Pty) Ltd <i>and also in the Corporate Innovation category</i> • Tollman, Prof Stephen – Research Professor and Head: Division of Health and Population, Faculty of Health Sciences; and Director: SA Medical Research Council/University of the Witwatersrand (Wits) Rural Health and Health Transitions Research Unit; and Principal Scientist: International Network for the Demographic Evaluation of Populations and their Health, Ghana
<p>Engineering Research Capacity Development Awards (contribution by an individual over the last 5 to 10 years – Eskom sponsors two awards one for a male and one for a female for contributions in Engineering)</p>	<ul style="list-style-type: none"> • Booyesen, Mr Gerrie Jacobus – Director, Centre for Rapid Prototyping Manufacturing, Central University of Technology <i>and also in the Corporate Innovation category</i> • De Koning, Prof Charles – Professor of Organic Chemistry and Assistant Dean, Faculty of Science, University of the Witwatersrand (Wits) • Diale, Prof Mmantsae – Associate Professor, Department (Dept) of Physics, University of Pretoria • Jandrell, Prof Ian – Personal Professor, School of Electrical and Information Engineering; and Executive Dean, Faculty of Engineering and the Built Environment; and Joint leader of the High Voltage and the Lightning/Electromagnetic Compatibility Research Group, Wits <i>and also in the Management and related activities category</i> • Marx, Prof Sanette – Associate Professor, School of Chemical and Minerals Engineering; and National Research Foundation Research Chair in Biofuels and Other Clean Alternative Fuels; and Centre of Excellence in Carbon-based Fuels, North-West University • Mpofu, Prof Khumbulani – Professor, Gibela Research Chair in Manufacturing and Skills Development, Tshwane University of Technology <i>and also in the Emerging Researcher category</i> • Petrik, Prof Leslie – Professor, Dept of Chemistry, University of the Western Cape <i>and also in the NSTF-Water Research Commission and NSTF-GreenMatter award categories</i> • Pityana, Prof Sisa – Principal Researcher, National Laser Centre, Council for Scientific and Industrial Research <i>and also in the Lifetime category</i> • Stacey, Prof T Richard (Dick) – Professor Emeritus, School of Mining, Wits <i>and also in the Lifetime category</i>

<p>NSTF-GreenMatter Award: Towards achieving biodiversity conservation, environmental sustainability and a greener economy (contribution by an individual or an organisation over the last 5 to 10 years) sponsored by GreenMatter</p>	<ul style="list-style-type: none"> • Endangered Wildlife Trust, contribution to the Groen Sebenza Initiative – Head of Resource Development: Ms Alison Janicke • Maaza, Prof Malik – Senior Scientist: National Research Foundation Nanosciences LABS and United Nations Educational, Scientific and Cultural Organization Africa Chair, College of Graduate Studies, University of South Africa <i>and also in the Lifetime and the Special Annual Theme categories</i> • Petrik, Prof Leslie – Professor, Department (Dept) of Chemistry, University of the Western Cape <i>and also in the NSTF-Water Research Commission and also in the Engineering Research Capacity Development categories</i> • Van Wilgen, Prof Brian – Professor, Centre for Invasion Biology, Dept of Botany and Zoology, Stellenbosch University • Winkler, Prof Harald – Professor and Director, Energy Research Centre, University of Cape Town <i>and also in the Special Annual Theme category</i>
<p>NSTF-Water Research Commission (WRC) Award: Sustainable water management, knowledge generation and solutions (by an individual or an organisation to be awarded in recognition of demonstrated leadership and impact over the last 5 to 10 years) sponsored by the WRC</p>	<ul style="list-style-type: none"> • Fosso-Kankeu, Prof Elvis – Associate Professor, School of Chemical and Minerals Engineering, North-West University <i>and also in the Emerging Researcher category</i> • Msagati, Prof Titus – Professor, Research Unit of Nanotechnology and Water Sustainability, College of Science, University of South Africa • Petrik Prof Leslie – Professor, Department (Dept) of Chemistry, University of the Western Cape <i>and also in the NSTF-GreenMatter and also in the Engineering Research Capacity Development categories</i> • Wall, Prof Kevin – Part-time Extraordinary Professor, Dept of Construction Economics, University of Pretoria; retired as Built Environment Fellow, Council for Scientific and Industrial Research <i>and also in the Lifetime category</i>
<p>Data for Research Award: For advancing the availability, management and use of data for research (by an individual or an organisation)</p>	<ul style="list-style-type: none"> • Health Information Systems Program, South Africa: National Program Managers and Database Managers – Director: Ms Christa van den Bergh • South African Social Attitudes Survey (SASAS) – Coordinator and team leader: Mr Benjamin Roberts, Human Sciences Research Council
<p>Innovation Awards – Corporate organisation: For innovations and their research and/or development (by a team or an individual over the last 5 to 10 years)</p>	<ul style="list-style-type: none"> • Booyesen, Mr Gerrie Jacobus – Director, Centre for Rapid Prototyping Manufacturing, Central University of Technology <i>and also in the Engineering Capacity Development category</i> • Botes, Mr Willem – Research Lead, Department of Science and Technology/Grain SA Wheat Breeding Platform; and Senior Lecturer, Genetics Plant Breeding Laboratory, Genetics Department, Faculty of AgriSciences, Stellenbosch University

	<ul style="list-style-type: none"> • Mellado, Prof Bruce – Professor, School of Physics, Faculty of Science, University of the Witwatersrand <i>and also in the Researcher category</i> • Motaung, Prof Keolebogile – Assistant Dean, Postgraduate Studies, Research, Innovation and Engagement, Faculty of Science, Tshwane University of Technology; and Founder, Global Health Biotech (Pty) Ltd <i>and also in the Management and related activities category</i> • NWU Solar Car Team – Manager: Prof Albert Helberg, North-West University • Swarts, Mrs Wilma – Group Head, Marketing and Commercial Services, Lonmin Plc
<p>Innovation Awards – Small, Medium and Micro Enterprise (SMME): for innovations and their research and/or development (by a team or an individual over the last 5 to 10 years)</p>	<ul style="list-style-type: none"> • CFAM Technologies (Pty) Ltd – Managing Director and Lecturer, School of Mechanical Engineering, North-West University: Mr Danie Vorster • Memeza Team from Memeza Shout (Pty) Ltd – Chief Executive Officer: Ms Thulile Mthethwa • SUN Magnetics (Pty) Ltd – Director and Professor, Electrical and Electronic Engineering, Stellenbosch University: Dr Coenraad Fourie
<p>Communication for outreach and creating awareness of SET and innovation Award (by a team or individual over the last 5 years)</p>	<ul style="list-style-type: none"> • Manxoyi, Mr Sivuyile – Coordinator, Universe Awareness National Project; and Manager, Southern African Large Telescope Collateral Benefits Programme, South African Astronomical Observatory • Marnewick, Prof Jeanine – Research Chair, Biotechnology; and Head, Oxidative Stress Research Centre, Institute of Biomedical and Microbial Biotechnology, Cape Peninsula University of Technology • Medupe, Prof Thebe – Chairperson of National Astrophysics and Space Science programme Consortium, and Professor of Physics, North-West University • University of Pretoria Institute for Sustainable Malaria Control (UP ISMC) – Director of UP ISMC; and Dean, Faculty of Health Sciences; and Professor, Environmental Health, School of Health Systems and Public Health, University of Pretoria: Prof Christiaan (Tiaan) de Jager • Wits Communication Services – Head and Team Leader: Ms Shirona Patel, University of the Witwatersrand (Wits)
<p>Non-governmental organisation (NGO) Award (contribution over the last 5 to 10 years to SET including innovation, technology transfer, and education and training activities)</p>	<ul style="list-style-type: none"> • Midlands Sustainable Sugar Supply Collaboration (KwaZulu-Natal) – Coordinator: Mrs Janet Edmonds • Southern African Association for Research in Mathematics, Science and Technology Education (SAARMSTE) – Committee Chair and Professor of SA Numeracy, University of the Witwatersrand: Prof Hamsa Venkat • The Platinum Incubator – Chief Executive Officer: Ms Sibongile Purity Shongwe, Rustenburg

Special Annual Theme Award: Towards Sustainable Energy for All
(awarded according to criteria in any of the other categories but which meet this objective)

For 2018, the award is made in recognition of the 'International Decade of Sustainable Energy for All' as declared by the United Nations

- **Maaza, Prof Malik** – Senior Scientist, National Research Foundation Nanosciences LABS; and United Nations Educational, Scientific and Cultural Organization Africa Chair, College of Graduate Studies, University of South Africa *and also in the NSTF-GreenMatter and the Lifetime categories*
- **Strategic Environment Assessment Team, Council for Scientific and Industrial Research** – Research Group Leader: Mr Paul Lochner
- **Winkler, Prof Harald** – Professor and Director of Energy Research Centre, University of Cape Town *and also in the NSTF-GreenMatter category*
- **Xia, Prof Xiaohua** – Professor in the Department of Electrical, Electronic and Computer Engineering, University of Pretoria *and also in Lifetime category*

Adjudication: The accreditation and selection processes for the NSTF-South32 Awards are made by an adjudication panel of independent judges. They represent six different sectors of the NSTF membership within which the NSTF operates. This adjudication panel, in conjunction with the Award partners, reviewed the nominations to select the finalists and winners each year. A panel of experts, appointed by the NSTF Executive Committee, also assists the panel by reviewing and validating the final selections.

Youth programmes: One of the features that make these awards unique is that youth outreach is an integral part of the awards. Two NSTF [Youth](#) outreach programmes are run annually in conjunction with the NSTF Awards.

- The NSTF [Brilliants Programme](#) identifies and celebrates the top achievers in physical science and mathematics studying in science, engineering and medicine from the previous year's matric examinations. It exposes these young people to the SET community. Eighteen students (a man and a woman from each province) are recognised as the future leaders and innovators of our nation.
- Success is not about where you are, but who you have elevated in the process. The NSTF [Share 'n Dare Programme](#) is an output of the NSTF-South32 Awards that profiles [award winners](#) as youth role models. Award winners share their experience in the SET field at science centres and universities across the country. They encourage the youth to take up [careers in SET](#). Thousands of South Africans are also reached through community and campus radio station awareness talks.

Announcing Awards finalists and winners

The announcement of the [winners](#) will take place at the prestigious NSTF Awards [gala dinner](#) taking place on **28 June 2018** in Gauteng.

Attending the 'Science Oscars'

The patron of the NSTF Awards, the Minister of Science and Technology, presides over the programme. The new Minister, Ms Mmamoloko Kubayi-Ngubane confirmed her attendance to participate in the proceedings this year. The event is a glamorous affair attended by the cream of the crop of the SET community. It is the largest event of its kind and is open to the public. Over 600 guests attend the event. The SET community is invited to book tables for their organisations to celebrate the achievements of the nominees and finalists. Contact Ms Kgaugelo Teffo at enquiries@nstf.co.za or call +27 (0)12 841-2632/3987.

Media partners and advertising campaign

There are two media partners of the NSTF Awards to ensure national public recognition to the winners, as well as to facilitate the communication of science to the broader public. They are:

Business Report (since 2010), distributed through The Star, Pretoria News, Cape Times, and The Mercury

Mail & Guardian (since 2011)

Both these newspapers carry supplements about the winners the day after the Awards gala dinner (Friday, 29 June 2018). Unique advertising opportunities are available for your brand. Contact Ms Wilna Eksteen at enquiries@nstf.co.za or call +27 (0)12 841-3987/2632.

Partnerships and sponsorships

Organisations are invited to join hands with the NSTF to widen the reach and impact of the NSTF-South32 Awards and youth programmes. Partnerships are available on new and existing award categories and outreach programmes. Contact Ms Wilna Eksteen at enquiries@nstf.co.za or call +27 (0)12 841-3987/2632.

Please forward this email to your colleagues, business contacts and all interested persons to promote the Who's Who of SET and innovation in South Africa!

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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,

toenquiries@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

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.

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