



Announcement of FINALISTS: 2015/2016 NSTF Awards in partnership with South 32

recognising, celebrating and rewarding excellence in science, engineering, technology and innovation in South Africa

Finalists for the highly-acclaimed NSTF Awards in partnership with South 32 for 2015/2016 have been selected.

The National Science and Technology Forum (NSTF) Awards recognise outstanding contributions to science, engineering and technology (SET) and innovation for researchers and other SET-related professionals. This includes experienced scientists, engineers, innovators, science communicators, research and engineering capacity builders, organisational managers/leaders, and research managers.

The NSTF Awards is referred to as the 'Science Oscars' of South Africa, as it is the largest, most comprehensive, and most sought-after national Awards of its kind. It was also the first science awards in the country. This year's NSTF Awards proudly present the following new features:

- **The Capacity Development Awards now include Awards for Engineering Capacity Development.** Eskom's sponsorship will support two awards, one male and one female, in capacity development in the engineering space. The NSTF will make one additional award for capacity development in other disciplines.
- **The NSTF is making a special award for a contribution in Crop Science and Food Security** this year, in honour of the 2016 International Year of Pulses, as declared by the United Nations
- **The Non-governmental organisation (NGO) category was changed previously to include technology transfer and education/training contributions to SET.** The broader scope opens up the NSTF Awards to a wider range of organisations and allows for recognition of social innovation efforts. This would include worthy projects run by professional bodies. Just please note that professional bodies as such (as entities) are not considered in this category.

It is an extraordinary honour to be an Awards finalist, also given the quality of the nominations received, the fierce competition that nominees face, and growing interest from the community every year.

It affords the NSTF and its partners and sponsors immense pleasure in announcing the finalists in ten different categories as follows:

Lifetime Award (for an outstanding contribution to SET and innovation by an individual over a period of 15 years or more)

- Anandjiwala, Dr Rajesh - Chief Researcher, Council for Scientific and Industrial Research (CSIR) and Honorary Professor, Department of Textile Science, Nelson Mandela Metropolitan University
- Ashwal, Prof. Lewis - Professor of Geology, School of Geosciences, University of the Witwatersrand (Wits)
- Berger, Prof. David Kenneth - Professor, Department of Plant Sciences, University of Pretoria (UP) and also in the category: **Special Award in Crop Science and Food Security**
- Fourie, Prof. Bernard - Extraordinary Professor, Department of Medical Microbiology, UP
- Harrison, Prof. Sue - Director: Centre for Bioprocess Engineering Research, Department of Science and Technology/National Research Foundation Chair: South African Research Chairs Initiative (SARChI), Bioprocess Engineering, University of Cape Town (UCT) and also in category: **Research or Engineering Capacity Development**
- Klumperman, Prof. Bert - Distinguished Professor of Polymer Science, Stellenbosch University (SU) and also in category: **Research or Engineering Capacity Development**
- Pretorius, Prof. Zacharias (Zakkie) - Department of Plant Sciences, University of the Free State
- Samways, Prof. Michael - Distinguished Professor and Academic Principal, Department of Conservation Ecology and Entomology, SU and also in category: **NSTF-GreenMatter Award towards achieving biodiversity conservation, environmental sustainability and a greener economy**
- Thomson, Prof. Jennifer - Emeritus Professor, Department of Molecular and Cell Biology, UCT and also in category: **Special Award in Crop Science and Food Security**
- Wood, Prof. Robin - Director: Desmond Tutu HIV Centre, Emeritus Professor of Medicine, UCT

Special Award in Crop Science and Food Security (selected from any one of the nominations in the other Award categories in celebration of the 2016 International Year of Pulses as declared by the United Nations)

- Berger, Prof. David Kenneth - Professor, Department of Plant Sciences, University of Pretoria and also in category: **Lifetime**
- Farrant, Prof. Jill Margaret - Department of Science and Technology (DST)/National Research Foundation (NRF) Chair: South African Research Chairs Initiative (SARChI), Systems Biology Studies on Plant Desiccation Tolerances for Food Security, and Professor in Molecular and Cell Biology, University of Cape Town (UCT) and also in category: **Communication for outreach and creating awareness**
- Labuschagne, Prof. Maryke - Professor and Head of Plant Breeding, DST/NRF SARChI Chair: Disease Resistance and Quality in Field Crops, University of the Free State
- Mudau, Prof. Phatuwani Nixwell - Chair: Department of Agriculture and Animal Health, College of Agriculture and Environmental Sciences, UNISA and also in category: **TW Kambule-NSTF Award for research and its outputs**
- Rey, Prof. Emma Marie Christine - Professor of Microbiology and Cell Biology, University of the Witwatersrand
- Thomson, Prof. Jennifer - Emeritus Professor, Department of Molecular and Cell Biology, UCT and also in category: **Lifetime**

TW Kambule-NSTF Awards: Research and its outputs (for an outstanding contribution to SET and innovation by an individual over a period of up to 15 years after award of a PhD or equivalent, predominantly in South Africa)

- Christoffels, Prof. Alan - Director: South African National Bioinformatics Institute; and Department of Science and Technology (DST)/National Research Foundation (NRF) Chair: South African Research Chairs Initiative (SARChI), Bioinformatics and Public Health Genomics, University of the Western Cape
- Gørgens, Prof. Johann Ferdinand - Director: Stellenbosch Biomass Technologies (Pty) Ltd, and Director: Centre for Process Engineering, Stellenbosch University (SU) and also in category: **Research or Engineering Capacity Development**
- Katze, Prof. Louis - Research Professor of Law, North-West University (Potchefstroom Campus) and also in category: **NSTF-GreenMatter Award towards achieving biodiversity conservation, environmental sustainability and a greener economy**
- Lund, Prof. Crick - Director: Alan J Flisher Centre for Public Health, University of Cape Town
- Mishra, Prof. Ajay Kumar - Professor, Group leader research area Nanomaterials, Composites and Nanocomposites and Water, UNISA
- Mudau, Prof. Phatuwani Nixwell - Chair: Department of Agriculture and Animal Health, College of Agriculture and Environmental Sciences, UNISA and also in category: **Special Award in Crop Science and Food Security**
- Opara, Prof. Umezurike Linus - Distinguished Professor and DST/NRF SARChI Chair: Postharvest Technology, SU and also in category: **Research or Engineering Capacity Development**
- Tswa, Prof. Bhekisipho - Director: Institute for Intelligent Systems, Professor of Artificial Intelligence and Statistical Sciences, University of Johannesburg
- Zungu, Prof. Lindiwe - Research Professor, UNISA

Research or Engineering Capacity Development (contribution by an individual over the last 5-10 years - Eskom sponsors two awards for a male and a female for contributions in Engineering and the NSTF will make an award for a contribution in other disciplines)

- Diale, Prof. Mmantsae - Associate Professor, Department of Physics, University of Pretoria (UP)
- Dunsby, Prof. Peter - Professor of Cosmology, Co-Director: Astrophysics, Cosmology and Gravity Centre, Department of Mathematics and Applied Mathematics, University of Cape Town (UCT)
- Gørgens, Prof. Johann Ferdinand - Director: Stellenbosch Biomass Technologies (Pty) Ltd, and Director: Centre for Process Engineering, Stellenbosch University (SU) and also in category: **TW Kambule-NSTF for research and its outputs**
- Govender, Dr Gonasagren - Research Group Leader: Advanced Casting Technologies, Materials Science Manufacturing, Council for Scientific and Industrial Research (CSIR) and also in category: **Research leading to innovation by a corporate organisation**
- Harrison, Prof. Sue - Director: Centre for Bioprocess Engineering Research, Department of Science and Technology (DST)/National Research Foundation (NRF) Chair: South African Research Chairs Initiative (SARChI), Bioprocess Engineering, UCT and also in category: **Lifetime**
- Iwoh, Prof. Emmanuel - DST/NRF SARChI Chair: Nanoelectrochemistry and Sensor Technology, Senior Professor in Chemistry, University of the Western Cape
- James, Dr Angela - Cluster Leader, Science and Technology Education; Senior Lecturer, Science Education, University of KwaZulu-Natal; and Co-Faculty Advisor, Enactus
- Klumperman, Prof. Bert - Distinguished Professor of Polymer Science, SU and also in category: **Lifetime**
- Loots, Ms Anita - Associate Director: Special Projects, Square Kilometre Array South Africa
- Majazi, Prof. Thokozani - DST/NRF SARChI Chair: Sustainable Process Engineering, School of Chemical and Metallurgical Engineering, University of the Witwatersrand
- Opara, Prof. Umezurike Linus - Distinguished Professor and DST/NRF SARChI Chair: Postharvest Technology, SU and also in category: **TW Kambule-NSTF Awards for research and its outputs**
- Ray, Dr Suprakas Sinha - Chief Researcher and Director: DST-CSIR Nanotechnology Innovation Centre, National Centre for Nano-structured Materials, CSIR and also in category: **Management and related activities**
- Steenkamp, Prof. Vanessa - Professor and Head: Department of Pharmacology, UP

TW Kambule-NSTF Awards: Emerging researchers (for an outstanding contribution to SET and innovation by an individual - post-doctoral in a period of up to 6 years after award of a PhD or equivalent in research)

- Archibald, Prof. Sally - Associate Professor, School of Animal, Plant and Environmental Sciences, University of the Witwatersrand (Wits)
- Coetzee, Dr Vinet - Lecturer, Department of Genetics, University of Pretoria (UP)
- De Maeyer, Dr Pieter - Research Fellow, Centre for Molecular Ecology and Genomics, UP
- McLaren, Dr Melanie - Research Fellow, School of Physics, Wits
- Mpofu, Prof. Khumbulani - Head of Department of Industrial Engineering, Tshwane University of Technology
- Oni, Dr Tolu - Head of Department and Director: School of Public Health and Family Medicine, University of Cape Town (UCT)
- Peter, Dr Jonathan - Head of Division of Clinical Immunology, Department of Medicine, Groote Schuur Hospital, UCT
- Segalo, Prof. Puleng - Associate Professor, Department of Psychology, UNISA
- Sivarasu, Dr Sudesh - Senior Lecturer, Biomedical Engineering, UCT also in category: **Research leading to innovation by a corporate organisation**

Management and related activities (for an outstanding contribution to SET and innovation over the last 5-10 years by an individual)

- Kramer, Prof. Beverley - Assistant Dean: Research and Post-Graduate Support, and Professor of Anatomy, Faculty of Health Sciences, University of the Witwatersrand
- Ray, Dr Suprakas Sinha - Chief Researcher and Director: Department of Science and Technology-Council for Scientific and Industrial Research (CSIR) National Centre for Nano-structured Materials, CSIR and also in category: **Research or Engineering Capacity Development**
- Viviers, Prof. Wilma - Director of TRADE (Trade and Development) Research focus area - North-West University and also in category: **Research leading to innovation by a corporate organisation**

NSTF-GreenMatter Award towards achieving biodiversity conservation, environmental sustainability and a greener economy (for an outstanding contribution to SET and innovation by an individual or an organisation - sponsored by GreenMatter)

- Katzé, Prof. Louis - Research Professor of Law, North-West University also in category: **TW Kambule-NSTF Awards for research and its outputs**
- Mondli Ecological Networks Programme - Team Leader: Prof. Michael Samways, Distinguished Professor and Academic Principal, Department of Conservation Ecology and Entomology, Stellenbosch University and also in category: **Lifetime**
- Nhamo, Prof. Godwell - Chief Researcher and Exaro Chair in Business and Climate Change, UNISA
- Plant Health Products (Pty) Ltd - Team Leader: Dr Michael Morris
- Taylor, Prof. Maureen Beatrice - Professor and Rand Water Chair in Public Health, University of Pretoria

Communication for outreach and creating awareness (for an outstanding contribution to SET and innovation by a team or individual)

- Blumenthal, Dr Ryan - Senior Specialist and Lecturer, Department of Forensic Medicine, University of Pretoria
- Farrant, Prof. Jill Margaret - Department of Science and Technology/National Research Foundation Chair: South African Research Chairs Initiative, Systems Biology Studies on Plant Desiccation Tolerances for Food Security, and Professor in Molecular and Cell Biology, University of Cape Town and also in category: **Special Award in Crop Science and Food Security**
- Janse van Rensburg, Ms Nickey - Lecturer and Energy Movement Programme Manager, University of Johannesburg
- Smit, Prof. JJA (Jan) - Manager Science Centre, North-West University (NWU)
- Van der Walt, Prof. Izak Jacobus - Professor: Philosophy of Science and Engineering, NWU

Research leading to innovation by a corporate organisation (for an outstanding contribution to SET and innovation by a team or individual)

- Advanced Casting Technologies, Materials Science Manufacturing, Council for Scientific and Industrial Research (CSIR) - Research Group Leader: Dr Gonasagren Govender and also in category: **Research or Engineering Capacity Development**
- Azimuth Team, CSIR - Team Leader: Dr Jeanine Engelbrecht
- Bates, Mr Willens - Plant Breeding, Stellenbosch University
- Broadband-for-All team, CSIR - Team Leader: Mr Kobus Roux
- GL-DSA (Geo-location based dynamic spectrum allocation) Team, CSIR Meraka Institute - Team Leader: Dr Fiseha Mekuria
- Sivarasu, Dr Sudesh - Biomedical Engineering, University of Cape Town and also in category: **TW Kambule-NSTF Awards for emerging researchers**
- The Neutron Diffraction Team, South African Nuclear Energy Corporation - Team Leader: Prof. Andrew Venter
- TRADE-DSM (Decision Support Model) Team, TRADE (Trade and Development) Research Focus Area, North-West University - Director: Prof. Wilma Viviers and also in category: **Management and related activities**

Research leading to innovation by a Small, Medium and Micro Enterprise (for an outstanding contribution to SET and innovation by a team or an individual)

- CFAM Technologies (Pty) Ltd - Managing Director: Mr Danie Vorster
- Strait Technologies (Pty) Ltd - Chief Executive Officer (CEO): Professor Peter Zilla
- SIN Magnetics (Pty) Ltd - Prof. Coenraad Fourie, Stellenbosch University
- Umvoto Africa (Pty) Ltd - Ms Rowena Hay
- UVIRCO Technologies (Pty) Ltd, joint venture with the Council for Scientific and Industrial Research - CEO: Mr Dirk Lindeque

Non-governmental organisation (for an outstanding contribution to SET and innovation including technology transfer or education and training activities)

- Mobile Adult Skills Development & Training (MASDT) NPC - Ms Lynette Bezuidenhout
- SmartXchange Community Technology Centre - Mr Ahmed Ismael
- Snyfunda - Mr Jonathan Naidoo

NSTF Awards Gala Dinner, 30 June 2016 - Save the Date!

The NSTF Awards Gala Dinner is an annual event arranged to recognise and celebrate the finalists, as well as announce the winners. It is a prestige affair gathering the who's who in SET and innovation in South Africa. The cream of the crop, from lifetime researchers down to the upcoming youth of our society, are all gathered under one roof and joined together in celebration! The event is open (public) and the largest of its kind, attended by over 500 guests every year.

The date for the Gala Dinner has been set with the Patron, Ms Naledi Pandor, Minister of Science and Technology for Thursday, **30 June 2016** in Gauteng. All finalists should save this date where they will be recognised, as well as for the announcement of the winners.

Organisations that wish to position themselves as associating with this select audience of over 40 different organisations, and support the promotion of science and technology through the NSTF, are invited to embrace this unique opportunity. Join the celebration of the winners by making your online table or seat bookings now. The costs are as follows:

- Table = R15,000.00 (Ex VAT) for a table seating 10 guests of your choice with recognition of the organisation on some of the printed material of the event
- Seat = R1,900.00 (Ex VAT) for a seat at the Gala Dinner (mention is made of the organisations' name in the booklet of the event)

OR

A variety of sponsorship packages with excellent benefits and brand exposure are also available to any organisation that wants to join forces with the NSTF to further elevate the prominence of the event and support the recognition of deserving candidates. A comprehensive funding proposal is available on request. Partnerships on some of the existing categories of the Awards are also welcomed!

Contact us today for YOUR tailor-made sponsorship or booking! Phone Ms Makwena Ramaru on Tel: 27 (0)12 841-3987/2632 or E-mail: enquiries@nstf.co.za

Finalists and Winners in the News - the national print and online media campaign

The NSTF Awards bring national recognition to the winners, through the media sponsors, namely **Business Report**, distributed through The Star, Pretoria News, Cape Times & The Mercury, as well as the **Mail & Guardian**. Both these newspapers will carry supplements of the winners on 1 July 2016 (the day after the winners' announcement is made). Unique advertising opportunities are available for your brand in these supplements. Contact Ms Wilma Eksteen in the NSTF Office at the contact details below to put you in contact with the representatives of the media sponsors.

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

For more information

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