NSTF Awards in partnership with South32

Nominees announced for the 2015/2016 NSTF Awards in partnership with South32

The National Science and Technology Forum (NSTF) is pleased to announce the 18th year of NSTF Awards Nominees. This is for the 2015/2016 NSTF Awards, in partnership with South32.

The NSTF Awards recognise outstanding contributions to science, engineering and technology (SET) and innovation for researchers and practitioners in government, academia, science councils, parastatals, 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. The Awards are held in high esteem by 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 field. This 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 Innovation Management and Commercialisation category was changed previously to include technology transfer and education/training contributions to science, engineering and technology**. The broader scope opens up the NSTF Awards to a wider range of organisations and allows innovators to be recognised for their work. This year's **Innovation Awards can be for commercialisation**. This broad scope for professional bodies as such are entitled are not considered in this category.

Join the membership and its partnerships/sponsors, in applauding the 2015/2016 NSTF Awards Nominees. These comprise individuals, bodies and organisations that have made an outstanding contribution to SET and innovation under the categories below.

Lifetime Award

(for an outstanding contribution to SET and innovation by an individual over a period of 30 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
- Bekker, Prof Arabella – Professor and Head of Department of Statistics, University of Pretoria (UP)
- Cilliers, Prof Jacobus Jakobus – Professor; Department of Materials, UP
- Cousins, Prof Ben – Emeritus Professor; Department of Science and Technology (DST)/National Research Foundation (NRF) South African Research Chairs Initiative (SARCHI) Chair: Land and Agrarian Studies, University of the Western Cape (UWC)
- Dampney, Mr Kane – Volunteer Representative, National AIDS Convention of Africa
- Fourie, Prof Bernard – Extraordinary Professor; Department of Mechanical Engineering, UP
- Gamble, Mr Jeremy Vincent – Director: Vivaldata Energy (Pty) Ltd
- Harrison, Prof Sue – Director: Centre for Bioprocess Engineering Research, DST/NRF SARCHI Chair: Bioprocess Engineering, University of Cape Town (UCT)
- Henning, Prof Michael – Research Professor in Mathematics; Department of Pure and Applied Mathematics, University of Johannesburg (UJ)
- Hlophe, Ms Ntombi – Chief Executive Officer: Innovation Hub Management Centre, UP
- Isaacs, Dr Shaheen – Managing Member: Pulse Education Services cc
- Jaarsma, Prof Emmanuel – DST/NRF SARCHI Chair: Nanoelectrochemistry and Nanomaterials Research, Nelson Mandela University (NMU)
- Klumperman, Prof Bert – Distinguished Professor of Polymer Science; Stellenbosch University (SU)
- Kotze, Prof Dirkie – Emeritus Professor of Physical Geography, School of Geographic, Archaeology and Environmental Studies, WITS
- Labuschagne, Prof Pieter – Professor and Head: Plant Breeding; DST/NRF SARCHI Chair: Cereal Resistance and Quality in Field Crops; University of the Free State (UFS)
- Pretorius, Prof Zacharias (Zakkie) – Department of Plant Sciences, UFS
- Prozesky, Prof Hellmut – Professor; Department of Mathematical Sciences, UP
- Sanneveg, Prof Michael – Distinguished Professor and Academic Principal; Department of Electrical Engineering, UCT
- Strydom, Prof André Michael – Professor of Physics, UJ
- Tiedt, Prof Gerhard – Professor – Professor and Nelson Mandela Chair in Public Health, UP
- Thomson, Prof Jennifer – Emerita Professor; Department of Molecular and Cell Biology, UCT
- 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 (UP)
- Cilliers, Prof Jacobus Jakobus – Senior Lecturer and Head: Genetics and Plant Breeding Laboratory; Department of Genetics, Stellenbosch University
- Duduzile, Prof Nwaila Gaolo – Associate Professor; Department of Food Technology, UJ
- Farrant, Prof Jill Margaret – Department of Science and Technology (DST)/National Research Foundation (NRF) South African Research Chairs Initiative (SARCHI) Chair: Biophysics Engineering, University of Cape Town: Tolerance for Food Security, and Professor in Molecular and Cell Biology, University of Cape Town
- Labuschagne, Prof Pieter – Professor and Head of Plant Breeding; DST/NRF SARCHI Chair: Cereal Resistance and Quality in Field Crops, University of the Free State
- Mabhaudhi, Dr Tafadzwanashe – Associate Professor, Microbiology and Plant Pathology; UP
- Mudau, Prof Fhuzwam Hewel – Chair of Department; Department of Agriculture and Animal Health, College of Agriculture and Environmental Sciences, UNISA
- Ney, Prof Emma-Marie Christine – Professor of Microbiology and Cell Biology; University of the Witwatersrand

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 (SANBI); Extraordinary Professor, Stellenbosch University; Research Foundation (NRF) South African Research Chairs Initiative (SARCHI) Chair: Bioinformatics and Public Health Genomics, University of Cape Town (UCT)
- Dualdy, Prof Eraldo Lipolo – Associate Professor; Department of Food Sciences, University of Pretoria (UP)
- Fabiano, Prof Eugenie – Senior Lecturer; Department: Stellenbosch Biomass Technologies (Pty) Ltd, and; Director: Centre for Process Engineering, Stellenbosch University (SU)
- Fatoyinbo, Prof Temilola Anne Reginald – Senior Professor, Head of Department, Medical Bioscience, UWC
- Klumperman, Prof Bert – Distinguished Professor of Polymer Science; SU
- Mabhaudhi, Dr Tafadzwanashe – Associate Professor, School of Geographic, Archaeology and Environmental Studies, University of the Witwatersrand
- Mpofu, Prof Khathi – Research Professor of Law, North-West University – Potchefstroom Campus
- Lund, Prof Crick – Director: Alan J Flisher Centre for Public Health, University of Cape Town
- Molina, Prof Ana Rafaela – Professor; Group leader research area Microbiology and Plant Pathology, Department of Plant Sciences, UFS
- Mudau, Prof Fhuzwam Hewel – Chair of Department; Department of Agriculture and Animal Health, College of Agriculture and Environmental Sciences, UNISA
- Ojuri, Prof Oluwatoyin Lina – Distinguished Professor and DST/NRF SARCHI Chair: Pavtechnost Technology, SU
- Oladipo, Prof Bolanle – Professor Extraordinary; Faculty of Natural and Agricultural Sciences, UP
- Strydom, Prof André Michael – Professor of Physics, University of Johannesburg (UJ)
- Tlale, Prof Bhekisipho – Director: Institute for Intelligent Systems, Professor of Artificial Intelligence and Statistical Sciences, SU
- Zungu, Prof Lucy – Research Fellow, Centre for Microbial Ecology and Genomics, UP
- Wagner, Prof Stephan – Professor; Department of Mathematical Sciences, UP
- Zungu, Prof Lindiwe – Research Professor, UNISA

Research or Engineering Capacity Development

(contribution by an individual over the last 5-10 years – Eskom Research Chair in Capacity Development in Engineering or Research Engineering and the NSTF will make an award for a contribution in other disciplines)

- Ojuri, Prof Oluwatoyin – Associate Professor, Department of Physics, University of Pretoria (UP)
- Ray, Prof Suntie – Emeritus Professor of Cosmology, Co-Director: Astrophysics, Cosmology and Gravity Centre, Department of Mathematics and Applied Mathematics, University of Cape Town
- Fabiano, Prof Eugenie – Senior Lecturer; Stellenbosch Biomass Technologies (Pty) Ltd, and; Director: Centre for Process Engineering, Stellenbosch University (SU)
- Fatoyinbo, Prof Temilola – Research Group Leader: Advanced Casting Technologies, Materials Science Manufacturing, Council for Scientific and Industrial Research (CSIR)
- Fatoyinbo, Prof Reginald – Senior Professor, Head of Department, Medical Bioscience, 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 Adviser, Discovery
- Klumperman, Prof Bert – Distinguished Professor of Polymer Science; SU
- Lund, Prof Crick – Associate Director: Special Projects, Stellenbosch University (SU)
- Mapiye, Prof Theophilus – Department of Mathematical Sciences, UP
- Zungu, Prof Lindiwe – Research Professor, UNISA

Research or Engineering Capacity Development

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- Fatoyinbo, Prof Reginald – Research Group Leader: Advanced Casting Technologies, Materials Science Manufacturing, Council for Scientific and Industrial Research (CSIR)
- Fatoyinbo, Prof Temilola – Senior Professor, Head of Department, Medical Bioscience, 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 Adviser, Discovery
- Klumperman, Prof Bert – Distinguished Professor of Polymer Science; SU
- Lund, Prof Crick – Associate Director: Special Projects, Stellenbosch University (SU)
- Mapiye, Prof Theophilus – Department of Mathematical Sciences, UP
- Mpofu, Prof Khathi – Research Professor, UNISA
- Mudau, Prof Fhuzwam Hewel – Department of Agriculture and Animal Health, College of Agriculture and Environmental Sciences, UNISA
- Ney, Prof Emma-Marie Christine – Professor of Microbiology and Cell Biology; University of the Witwatersrand

TW Kambule-NSTF Awards: Emerging researchers

(for an outstanding contribution to SET and innovation by an individual over a period of up to 8 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)
- Badenhorst, Dr Heinrich – Senior Lecturer; Department of Chemical Engineering, University of Pretoria (UP)
- Coetzee, Dr Vinet – Lecturer; Department of Genetics, UP
- De Maayer, Dr Pieter – Research Fellow, Centre for Microbial Ecology and Genomics, UP
- James, Dr Angela – Cluster Leader, Science and Technology Education; Senior Lecturer, Science Education, University of KwaZulu-Natal; and Co-Faculty Adviser, Discovery
- McLaren, Dr Melissa – Research Fellow, School of Physics, WITS
- Mhlongo, Dr Gugu – Senior Researcher, National Centre for Nano-Structured Materials, Council for Scientific and Industrial Research (CSIR)
- Molotoli, Prof Lucy Monyaepe – Associate Professor, Microbiology and Plant Pathology; UP
- Ndlovu, Dr Sphamandla – Head of Department of Industrial Engineering, Advanced Manufacturing Technology
- Nanzi, Dr Mabumbaie – Project Manager and Section Head: Coal Laboratory, Coal Research
- Nemavhulani, Dr Sandah – Lecturer; Department of Biochemistry, UP
- Nkosana, Prof Prince Mabore Nenkhle – Lecturer; Department of Anatomy, UP
- Oni, Dr Tolu – Head of Department and Director: School of Public Health and Family Medicine, University of Cape Town (UCT)
- Patse, Dr Jonathan – Head of Division of Clinical Immunology; Department of Medicine, Groote Schuur Hospital, UCT
- Pillay, Prof Pradeep – Associate Professor; Department of Psychology, UNISA
- Sivarasu, Dr Sudesh – Senior Lecturer, Biomedical Engineering, UCT

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
- Mathe, Mr Mandlenkosi Ngwenkosi – Tshikovha Environment and Communication Consulting
- Phaahlong, Prof Mamogobito – Vice Principal Research and Innovation, UNISA
- Ray, Prof Suntie – Emeritus Professor of Cosmology; Co-Director: Astrophysics Science and Technology Council for Scientific and Industrial Research (CSIR) National Centre for Nano-structured Materials, CSIR
- Sibanda, Dr Bonnie – Director: Trade and Development (Research focus area – North-West University)

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)

- Badenhorst, Dr Heinrich – Senior Lecturer; Department of Chemical Engineering, University of Pretoria (UP)
- Kotzé, Prof Louis – Managing Director: Kotzé (Pty) Ltd
- Kotzé, Prof Louis – Research Professor of Law, North-West University
- Monol Ecological Networks Programme – Team Leader: Prof Michael Cherney; Senior Lecturer, Mathematical Statistics, Stellenbosch University
- Conservation Ecology and Entomology, Stellenbosch University
- Mudzunewa, Mr Mondy Ngwedzi – Tshikovha Environment and Communication Consulting
- Mtwisha, Prof Godwill – Chief Researcher and Group Chair in Business and Climate Change, UNISA
- Nandi, Dr Mabumbaie – Project Manager and Section Head: Coal Laboratory, Coal Research
- Nemavhulani, Dr Sandah – Lecturer; Department of Biochemistry, UP
- Nkosana, Prof Prince Mabore Nenkhle – Lecturer; Department of Anatomy, UP
- Oni, Dr Tolu – Head of Department and Director: School of Public Health and Family Medicine, University of Cape Town (UCT)
- Patse, Dr Jonathan – Head of Division of Clinical Immunology; Department of Medicine, Groote Schuur Hospital, UCT
- Pillay, Prof Pradeep – Associate Professor; Department of Psychology, UNISA
- Sivarasu, Dr Sudesh – Senior Lecturer, Biomedical Engineering, UCT

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 (UP)
- Dampney, Mr Kane – Volunteer Representative; National AIDS Convention of Africa
- Farrant, Prof Jill Margaret – South African Biophysics Chair initiative Chair: Systems Biology Studies on Plant Desiccation Tolerance for Food Security, and Professor in Molecular and Cell Biology; University of Cape Town
- Forbes, Dr Patricia – Research Associate; Department of Chemistry; UP
- Gamble, Mr Jeremy Vincent – Director: Vivaldata Energy Movement Programme Manager, University of Johannesburg
- McKay, Dr Ian James – Director Education and Outreach; Evolutionary Studies Institute, University of the Witwatersrand
- McKay, Mr Leonard – Volunteer Youth Facilitator; Kakamas, Northern Cape
- Mudzunewa, Mr Mondy Ngwedzi – Tshikovha Environment and Communication Consulting
- Nzewuwa, Prof Theresa Maria – Associate Professor, Faculty of Health Sciences, UP
- Smit, Prof JA (Jan) – Manager Science Centre; North-West University (NWU)
- Van der Walt, Prof Izak Jacobus – Professor: Philosophy of Science and Epistemology, UP

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 Temilola Fatoyinbo
- Africa Open Science and Technology Trust, Samsung Electronics – Director: Mr Richard Ellis
- Azimuth Team, CSIR – Team Leader: Dr Jeanine Engelbrecht
- Botes, Mr William – Plant Breeding, Stellenbosch University
- Cooper, Mr Ashwin – Director: Cooper Consulting (Pty) Ltd
- Embedded Development Team, Powertech System Integration (Pty) Ltd – Embedded Development Manager: Mr Christo Schalk
- Kruger, Mr Hendrik – Director: Kruger Consulting Engineers Team, CSIR
- Mkwalo Institute – Team Leader: Dr Khadija Mekuria
- Pediatric, Dr Llewellyn – Red Cross War Memorial Children's Hospital, Cape Town, Western Cape
- Sivarasu, Dr Sudesh – Biomedical Engineering, UCT
- SIMNE Technology Support Team, MERCSI – Mr Nirdesh Singh
- Tshikovha Team, North-West University – Team Manager: Prof Gideon Herbert
- The Moon Ride FS Team, Wakanisa Entertainment (Pty) Ltd – Team Leader: Mr Ernest Mabuza
- The Neutron Diffraction Team, South African Nuclear Energy Corporation (Necsa) – Team Leader: Prof Andrew Venter
- The Trade Development Team, North-West University – TRADE (Trade and Development) Research Focus Area, North-West University – Director: Prof Wilma Viviers
- Vivaldata Energy (Pty) Ltd – Mr Vernon Harding

Research leading to innovation by an SMME

(for an outstanding contribution to SET and innovation by a team or an individual)

- CRAR Technology (Pty) Ltd – Managing Director: Mr Danie Venter
- Cuatco Team, Cuatco Media Technologies – Mr Fred Lalu
- Kruger, Mr Hendrik – Director: Kruger Consulting
- Research and Development Team, Stellenbosch Nanotoolbar Company – Dr Eugene Sirel
- Sibanda, Dr Bonnie – Director: Nexus Dexcel (Pty) Ltd – Dr Thys Cronje
- Solar Jersey – Solar Jersey (PB-TS, HEALING, JBV-TS, TOUCH
- SUN Magnetics (Pty) Ltd – Prof Coenraad Fourie, Stellenbosch University
- Tshikovha Environment and Communication Consulting – Mr Mondy Ngwedzi Mudzunewa
- Vivaldz Africa (Pty) Ltd – Ms Rosemie Kien
- Zulu, Mr Bhekisisa Thomas – Director: Mintek and the Council for Scientific and Industrial Research – Mr Dirk Lindegger, Chief Executive Officer

Non-governmental organisation

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

- Chamane, Mr Thabamane – Co-Founder and Director: TSB ICT Training and Skills Development & Training (NAGOSTI) NPO, Ms Lepetha Boisdilehual
- Siyahlola Community Technology Centre – Mr Ishmael Ahmed
- Smart Exchange – Mr Jonathan Nedco

Background: The annual NSTF Awards, in partnership with South 32, is the most prestigious awards for research and innovation in South Africa. It is also the most representative multi-stakeholder non-profit forum in South Africa promoting science, engineering and technology (SET) and innovation through recognition of individuals, teams, organisations and companies. The NSTF is a small history and list of milestones promoting socio-economic growth.

The NSTF Awards were introduced in 1998, when there were no comparable awards for research, and research & development (R&D). They were initiated to mobilise the joint resources and efforts of the broader SET and innovation community, to ensure that the contribution of SET and innovation to society is realised on researchers and related fields and organisations.

Adjudication: An adjudication panel of independent judges representing six different sectors within the NSTF membership, as well as the award partners, will review the nominations to select the finalists and winners. A panel of judges will review the nominations, and a selection committee will assist the panel by reviewing and validating the final selections.

Youth programmes: Two NSTF Youth sub-awards programmes are run annually in conjunction with the NSTF Awards.

The Brilliants Programme identifies and celebrates some of the top achievers in physical science and mathematics from the previous year's matric examinations. The Brilliants programme is run by the NSTF and Sasol, and is sponsored by Sasol and a woman from each province) are recognised as the future innovators of our nation.

The Share 'n Dare Programme profiles Award winners as role models to the youth - Award winners give talks at Science Centres and Universities across the country, and participate in Career Days. Top Science and Maths Teachers in South Africa are also rewarded through ceremonies and campus radio station awareness talks.

Awards finalists and winners: The announcement of the NSTF Awards finalists will be circulated through the NSTF e-newsletter during **May 2016**. The Awards ceremony is a black tie event, and will be held at the Sandton Sun gala dinner taking place **on 30 June 2016** in Gauteng. The Patron of the NSTF Awards, the Minister of Science and Technology, presides over the programme. The NSTF Awards ceremony is a sold out event every year, with over 500 guests, a crop of the SOTI community and the largest event of its kind. Over 500 guests attend the event annually. The ceremony was invited to book tickets for their guests/partners/family members. For more information on tickets and finalists Contact: Ms Makwena Ramaru at the contact details below.

Media Partners and advertising campaign: The two media partners of the NSTF Awards, **Business Report**, distributed through The Star, Pretoria News, Cape Times, and The Mercury, as well as the **Mail & Guardian** ensure national coverage of the finalists and winners. Business Report produces a supplement of the winners the day after the Awards Gala Dinner (Friday, 1 July 2016). Unique advertising opportunities are available for your brand. Contact: Ms Wilma Erasmus at the contact details below.

Partnerships and sponsorships: Organisations are invited to join hands with the NSTF to widen the reach and impact of the Awards and Youth programmes. Partnerships are available on new and existing Award categories and outreach programmes. Contact: Ms Makwena Ramaru at the contact details below.

Theme: The theme for the 2015/2016 NSTF Awards is the 2016 International Year of Pulses, as declared by the United Nations. The theme is awareness of the health, nutritional and sustainability benefits of pulses for people, animals, and the planet.

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!

About the NSTF

The National Science and Technology Forum (NSTF), established in 1997, is a broadly representative stakeholder body for all S&T and innovation organisations in South Africa. It is a non-profit, non-political, non-racial organisation.

Prof Bonani was unique in his recognition the importance of the non-academic research and groups in SET and innovation.

Andrew Kirkpatrick-Jones provides representation and honary protectorate for architect, engineering and related bodies.

For more information

Contact Person: Ms Makwena Ramaru
Email: enquiries@nstf.za.com
Tel: +27 12 841 3987
Fax: 27 12 841 3125

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