Nominees announced: 2016/2017 NSTF-South32 Awards

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

The **National Science and Technology Forum (NSTF)** is pleased to announce the **185 group of nominees competing for the prestigious NSTF Awards**.

The **NSTF-South32 Awards**, The NSTF-South32 Awards were established in 1998 as a means of recognising outstanding contributions to science, engineering and technology (SET) and innovation in South Africa to researchers, teams and companies for their contribution to knowledge, innovation, human capital development, science communication, research and engineering capacity building, organisational management, and research managers.

The **NSTF-South32 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 NSTF-South32 Awards are the first national awards in the country.

What's new this year? This year's **NSTF-South32 Awards** proudly present the following new awards:

- The NSTF and the Water Research Commission (WRC) hope to take some pride in having to launch the **NSTF-WRC Award**. This new award recognises individuals and teams who have made a significant contribution to water research, research management, knowledge generation and solutions that demonstrate leadership and impact.
- The **Innovation Award** recognises **Data for Research** by individuals and teams for advancing the **availability, management and use of data for research**.
- This year, the NSTF is making a special award for a SET and innovation contribution to a high profile flagship project. The **Flagship Award** recognises a contribution of the 2017 International Year of Sustainable Tourism for Development (#IYSDT17) declared by the United Nations (UN).

The Innovation Award is a new category this year. Although the SET and innovation contribution is a high quality of life for all who live in SA, where the profile of SET professionals is representation of the population's profile and where the education system, institutions, particularly in terms of graduations in SET subjects and producing innovators.

The NSTF-South32 Awards are one of the ways in which the NSTF realises the vision: Partnership for specific awards such as that with the WRC, Stakeholder, and Sponsor liaison to recognition of contributions that have the potential to make a positive impact on the quality of life in SA.

Join the NSTF conversation and #nstfawards#, or alternatively the #2016/2017 NSTF-South32 Award nominees. These comprise individuals, teams and organisations, who are the 185 group of nominees for the **contribution to SET and innovation in South Africa** under the categories below:

- An asterisk (*) at the end of the citation of the nominee indicates that a nominee has been nominated under more than one category
- Curved alphanumeric accompanying a surname or name of team/organisation under each category

Lifetime Award

(to an individual over a period of 15 years or more)

- **Reddan, Prof. Michael**: Director, Department of Science and Technology (DST) / National Research Foundation (NRF) Centre of Excellence in Mathematical and Statistical Sciences (CoE-MaSS), Department of Statistics, University of Johannesburg
- **Greene, Prof. Graham Thomas**: Professor and DST/NRF South African Research Chair in Biomaterials Chemistry, Department of Chemistry, University of Cape Town
- **Dhlamini, Prof. George**: Professor of Water Quality Engineering, University of Johannesburg
- **Mpofana, Prof. Onwenwe Nnenna**: Professor of Applied Mathematics and Computational Faculty of Military Science, University of Stellenbosch (SU) [1]
- **Ramsay, Prof. Dwayne Tyrone**: Director, Department of Medical Biochemistry, Obstetrics and Gynaecology and Director, Unit for Maternal and Infant Health Care Strategies, South African Medical Research Council
- **Ramsay, Prof. Marc**: Director, Human Genetics and Molecular Medicine, SU
- **Reid, Prof. Frederick**: Professor and Head, Division of Gastroenterology and Hepatology, Department of Medicine, Faculty of Health Sciences, UCT
- **Rhoda, Prof. Cornelia Rene**: Head, Department of Obstetrics and Gynaecology, Faculty of Health Sciences, Wits, and Principal Specialist and Head of Division of Obstetrics and Gynaecology, Cape Town Metro Health Services, WCG
- **Roy, Prof. Sanjay Chandra**: Professor of Physics, University of South Africa (UNISA)
- **Rugunanan, Prof. Melville**: Director: Tourism Research in Economic Environs and Society (nte), North West University [1]
- **Sadiya, Prof. Emmanuel Richie**: Research Professor, Tshwane University of Technology (TUT)
- **Snyman, Prof. Lukas**: Director: School of Engineering, College for Science, Engineering and Technology, TUT
- **Steyn, Prof. Gerald**: Research Professor, Department of Architecture, TUT
- **Van Niekerk, Prof. Adrian**: Director: Institute for Science and Technology Education, Department of Mathematics and Mathematics Education, SU
- **Vietemeyer, Mr Mathias**: Chief Executive Officer, Hazelton Pumps (Pty) Ltd [1]

TW-Kambule-NSTF Awards: Research and its outputs

(to an individual over a period of up to 15 years after award of a PhD or equivalent, predominantly in South Africa)

- **Langdon, Prof. Genevieve**: Professor and Deputy Head: Department of Mechanical Engineering, UCT; Senior Hazard and Reliability Research Fellow, University of Cape Town
- **Mancama, Dr Dee**: Research Group Leader, Biosciences Division, Council for Scientific and Industrial Research (CSIR)
- **Mbombo, Prof. Charles**: Professor and Dean: Post Graduate Studies, Research and Innovation, Faculty of Engineering and the Built Environment, University of Johannesburg
- **Mellem, Prof. Bruce**: Professor, Faculty of Science, School of Physics, University of the Witwatersrand (WITS)
- **Mwagah, Prof. Chris**: Professor: Research Unit of Nanotechnology and Water Sustainability, College of Science, Engineering and Technology, University of South Africa
- **Phasewana-Mafuya, Prof. Nancy (Mathew)**: Research Director, Human Sciences Research Council and Honorary Professor, Nelson Mandela Metropolitan University
- **Petersen, Prof. Ellemore**: Professor: Department of Physical Sciences and Technology, Sol Plaatje University and Head: CSIR Science Operations (Pretoria-Gauteng)
- **Sahinkaya, Dr Dogukan**: Senior Scientist: Biomedical Translational Research Unit, Council for Scientific and Industrial Research (CSIR)
- **Thulare, Dr Jennifer**: Lecturer in Physical Geography: School of Geography, Archaeology and Environmental Studies, WITS
- **Govender, Dr Nicolin**: Senior Scientist, CSIR
- **Jordaan, Dr Yolandy**: Senior Researcher, Material Science and Manufacturing, CSIR
- **Mulaudzi, Dr Khakhanando**: Senior Researcher, Hydraulic Infrastructure Engineering, Stellenbosch University (SU)
- **Mpofu, Prof. Khumbudzani**: Professor and Head of Department of Industrial Engineering, TUT [1]
- **Ramsay, Prof. Dwayne Tyrone**: Lecturer, Faculty of Health Sciences, UP
- **Pickering, Dr Mabyn**: Lecturer: Department of Geological Sciences, UCT
- **Sigwadhi, Dr Lindiwe**: Senior Lecturer, UP
- **Standen, Dr Tiesse**: Senior Lecturer: Department of Electrical, Electronic and Computer Engineering, UP

Management and related activities

(to an individual over the last 5-10 years- Award sponsors hon awards for a male and a female for contributions to Engineering and the NSTF will make an award for a female and a male for other fields)

- **Aust, Prof. Anthony**: Professor and Head of Chemical Engineering, and Director of CREM - Centre for Renewable Energy and Water, Steel University of Stellenbosch (SU)
- **CREM - Centre for Renewable Energy and Water**: Director: Prof. Anthony Aust; Team Leader: Dr Ted Lloyd
- **Gqwaru, Mr Nicholas**: Programme Manager, Human Capital Development, Square Kilometre Array, South Africa
- **Dietz, Prof. Wiemerslage**: Associate Professor: Department of Physics, University of Pretoria
- **Greene, Prof. Graham Thomas**: Professor and South African Research Chair: Biomaterials Chemistry, Department of Chemistry, University of Cape Town and the Eastern Cape, University of KwaZulu Natal [1]
- **Hlophe, Prof. Ernest Thembinkosi**: Dean: Faculty of Engineering, and Co-Leader of the SKAMP Project, University of the North West
- **Hansen, Prof. Valentyn**: Professor in Department of Electrical Engineering, and Director of the Centre for Telecommunications and Remote Sensing, Nelson Mandela University, Tshwane University of Technology (TUT)
- **Hildebrandt, Prof. Diane**: Professor of Chemical Engineering, and Director: Institute for Systems Science, Stellenbosch Univ, University of South Africa, and Director: DST/Sasol Chair (PhD [1]
- **Kahndee, Mr Lunel**: Principal Engineer, Centre of Polymers and Composites, Council for Scientific and Industrial Research (CSIR), Steel University of Stellenbosch (SU)
- **Kahndee, Dr Hendrik**: Professor of Plant Pathology, Department of Microbiology and Plant Pathology, UP
- **Mpofana, Prof. Onwenwe Nnenna**: Professor of Applied Mathematics and Computational, Faculty of Military Science, Stellenbosch University [1]
- **Mumangi, Prof. Ebenezer**: Professor, School of Computer Science and Applied Mathematics, Director: Centre for Mathematics and Theoretical Physics and Faculty of Science, University of the Witwatersrand
- **Mtshabezwa, Mr Mickaeng**: Candidate Scientist, Risk Assessment Research Group, Council for Scientific and Industrial Research (CSIR), Stellenbosch, Cape Town
- **Mulaudzi, Prof. Khakhanando**: Professor and Head of Department of Industrial Engineering, TUT [1]

NSTF-Coca-Cola: Sustainable water management, knowledge generation and solutions

(to an individual or organisations to be awarded in recognition of demonstrated leadership and impact - sponsored by the Water Research Commission)

- **Bennett, Dr Nico**: Managing Director, NB Systems cc [1]
- **Cele, Dr Nhlanhla**: Senior Research Officer, Water Research Commission (WRC)
- **Centre for Renewable Energy and Water**: Director: Prof. Grimsey Aust, Steel University of Technology [1]
- **Dlamini, Dr Sibusiso**: Senior Research and Director: Centre for Water Sciences and Management, North West University
- **Dlamini, Prof. Sibusiso**: Senior Research Fellow and Lecturer in the Department of Plant and Soil Sciences, University of Pretoria (UP)
- **Dube, Prof. Timothy**: Director: Institute of Water Studies, University of Cape Town
- **Godfrey Nyamwi, Dr**: Eric Kofoe Farinacea and Ofea Bachira, Chief Scientists, Council for Scientific and Industrial Research
- **Mzolisi, Prof. Bhekisa**: Executive Dean and Director Nanotechnology and Water Sustainability Unit, College of Science, Engineering and Technology, University of South Africa
- **Sheridan, Prof. Craig**: Associate Professor, School of Chemical and Metallurgical Engineering, WITS; Director: Pyrometallurgy Research Group
- **Tutu, Prof. Hlanganani**: Senior Researcher, and Prof Rainer Brown Chair in Public Health, University of Venda
- **Thinling, Mr Mwenelele**: Senior Researcher, and Primary Investigator Lead Centre, Council for Scientific and Industrial Research
- **Wepener, Prof. Ivan Vasi**: Director: Water Research Group, Prof. Eugene Cloete, Vice Rector: Research, Innovation and Postgraduate Studies, Stellenbosch University (1)

Data for Research: Availability, management and use of data for research

(to an individual or an organisation)

- **Archer, Dr Elizabeth**: Specialist Institutional Researcher, University of South Africa (UNISA)
- **Gaetano**: Prof. Martin Wittenberg, Professor in the School of Economics, University of Cape Town (UCT)
- **Hansen, Prof. Valentyn**: Professor in Department of Electrical, Electronic and Computer Engineering, Tshwane University of Technology (TUT)
- **Hasenjager, Dr Gerhard**: Senior Lecturer, Department of Computer Science, UP
- **Health Information Systems Program, South Africa**: Executive Director: Dr Lucille Blumberg
- **Hopkins Pulses (Pty) Ltd**: Chief Executive Officer: Mr Mathias Wietemeyer [1]
- **Kahn, Prof. Michael**: Director: Learning Cape, Leader: Dr Fabian Arends, Coordinator: CGIAR Bed Environment
- **Mulaudzi, Prof. Chuncke Gerald**: Professor: of Applied Mathematics and Computational, Faculty of Military Science, Stellenbosch University (SU) [1]
- **Mpofu, Prof. Khumbudzani**: Professor and Head of Department of Industrial Engineering, Tshwane University of Technology (TUT) [1]
- **Ramsay, Prof. Marc**: Director: Human Genetics and Molecular Medicine, Sarcoma Genomics Group
- **Rugunanan, Prof. Melville**: Director: Tourism Research in Economic Environs and Technology: National Research Foundation South African Research Chairs Initiative (SARCHI) in Tourism Research, North West University
- **Spalding, Prof. Emmanuel Richie**: Research Professor, TUT
- **Sikanda, Dr Sebastian**: Senior Lecturer, Department of Civil Engineering and Water Resources, University of Johannesburg (UJ)
- **Steyn, Prof. Gerald**: Director: School of Engineering, College for Science, Engineering and Technology, Tshwane University of Technology
- **The Absolute ICT Wheelmen Team**: Team Leader: Dr Steyn Raamsdonk, Principal Investigator: Department of Environmental and Geographical Studies, UP
- **Technology to Combat Poaching Team (Cheetah)**: Research Group Leader: Prof. Ernest Hlophe, Tshwane University of Technology
- **Vulamehlo Development Trust**: Project Leader: Prof Cogent Pillay, Associate Professor, Department of Agricultural Economics, UP
- **WaterCAHOOTS, NUSEB and other projects**: Team leader: Prof Eugene Cloete, Vice Rector: Research, Innovation and Postgraduate Studies, SU (1)

Research for Innovation - SANHI

(by a team or an individual)

- **Aurecash Development Team (personal PD), Aerosud Innovation Centre (Pty) Ltd**: Mr Marcus Vermaak, Chief Engineer and Program Manager: Additive Manufacturing
- **Gamber (Pty) Ltd**: Director and Owner: Dr Renée Pine
- **Dragica Bulevic Bonetska Team**: Team Leader: Prof. Ulrich Vickers, Head: Department of Industrial Design, Tshwane University of Technology (TUT)
- **TGAIN Foundation**: Gender Based Violence Helpline, Founder and Team Leader: Mrs Maria Dennis [1]

Communication: Outreach and creating awareness

(by a team or individual)

- **Musemwa, Dr Muzi**: Senior Specialist and Lecturer, Department of Forensic Medicine, University of Pretoria
- **Ntsoane, Dr Mpho**: Senior Research in Physical Metallurgy, Director: Department of Science and Technology (DST) / National Research Foundation (NRF) Centre of Excellence in Strong Materials, Director: Electron Microscopy Unit, Council for Scientific and Engineering Research, University of the Witwatersrand
- **Pillay, Prof. Karen**: Director: Centre for Research on Evaluation, Environmental and Management, Faculty of Natural Sciences, North West University [1]
- **Unknown Outreach Programme: Exploring South African Diversity and Heritage through Science**: Project Leader: Prof. Ernest Mnisi, Executive Director: Excellence for Innovation Malaga, Stellenbosch University, SU
- **Musiwalwa, Mr Mulaweng**: Candidate Scientist, Risk Assessment Research Research Group, Council: African National Institutions, Kirstenbosch, Cape Town

Non-governmental organisation

(including technology transfer or education and training activities)

- **Health Information Systems Program, South Africa**: Executive Director: Dr Vincent Brown
- **Lucille Blumberg Development and Training NPC**: Managing Director: Ms Lucille Blumberg
- **Schoolnet South Africa**: Executive Director: Mrs Jane Thomson
- **Sol Plaatje Institute, Sol Plaatje University, Kimberley, Northern Cape Institute of Southern Africa**: National Chairperson: Ms Nora Hanse-Luck
- **South African Youth Jive Engineering Programme**: Executive Director: Dr Kabelo Mthunzi

Special Annual Theme Award

(to an individual from an organisation, who contributes to or supports the Annual Theme or an organisation, in recognition of #YIYSDT)

- **Archer, Dr Elizabeth**: Specialist Institutional Researcher, University of South Africa (1)
- **Bennett, Dr Nico**: Managing Director, NB Systems cc (1)
- **Dlamini, Prof. Sibusiso**: Senior Research Fellow and Lecturer, Department of Forensic Medicine, University of Pretoria (1)
- **Hansen, Prof. Valentyn**: Professor in Department of Electrical, Electronic and Computer Engineering, Tshwane University of Technology (1)
- **Mpofana, Prof. Onwenwe Nnenna**: Professor of Applied Mathematics and Computational, Faculty of Military Science, Stellenbosch University (1)
- **Fitchett, Dr Jennifer**: Lecturer in Physical Geography: School of Geography, Archaeology and Environmental Studies, WITS (1)
- **Mulaudzi, Dr Khakhanando**: Senior Researcher: Hydraulic Infrastructure Engineering, Stell Environment, Council for Scientific and Industrial Research (1)
- **Musiwalwa, Mr Mulaweng**: Senior: Tourism Research in Economic Environs and Society (nte), NWU (1)
- **South African Young Water Professionals: Division of the Water Institute of Southern Africa**: Chairperson: Ms Nora Hanse-Luck (1)
- **Technology to Combat Poaching Team (Cheetah)**: Research Group Leader: Prof. Ernest Hlophe, Tshwane University of Technology (1)

Awards finalists and winners: The announcement of the NSTF-South32 Awards finalists will be circulated through the NSTF e-newsletter during **May 2017**. The announcement of the winners will take place at the prestigious Awards gala dinner on **Thursday, 29 June 2017**, at the Sandton Sun, Sandton, Gauteng. The Awards ceremony, Science and Technology Dinner, is the crown jewel of the year-long calendar of events and glamorous affair attended by the cream of the crop of the SET community and the country's top 1000 S&T leaders. The Awards ceremony, Science and Technology Dinner, intended to both celebrate the S&T organisations to celebrate the achievements of the nominees and winners, and to showcase S&T to the wider audience.

History of the NSTF and NSTF Awards: The annual **NSTF-South32 Awards** is the only national awards for the **NSTF**. The NSTF is the only representative stakeholder non-profit forum in South Africa promoting SET and innovation through collaborative partnerships across all sectors of society, with the aim of making a significant contribution of unbelievable promoting socio-economic growth. The NSTF Awards were introduced in the 1998, when there were no comparable awards for research, and research and innovation in SA. The NSTF Awards are now in its 19th year, and are the only awards that broaden SET and innovation contribution. Over the years, the NSTF Awards have grown in stature and have become the most coveted awards in the SET community.

Adjudication: An adjudication panel of independent judges representing the 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 experts, appointed by the Awards Committee, will assist the panel by reviewing and ratifying the final selection.

Youth programmes: The NSTF Youth outreach 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 SA previous years Olympiad and Brilliants programmes. The Brilliants programme is a year-long programme that provides a platform for learners from each provinces are recognised as the future innovators of our nation.

The Shoes + Grey 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 a year-long mentorship programme. The Shoes + Grey programme is also reached through community and campus radio interviews and podcasts.

Media Partners and advertising campaign: Top two media partners of the NSTF Awards, **Business Report**, distributed through The Star, Pretoria News, Cape Times, Daily News and Mercury, and **Bizcommunity.com**, will be used to inform the public of the winners. Both these newspapers will carry supplements of the winners the day after the Awards ceremony. The NSTF Awards will be advertised on Bizcommunity.com and on Google ad words. Contact the Wilna Klotsen 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 South Africa's prominence. Partnerships are available for new and existing Award categories and outreach programmes. Contact the Wilna Klotsen at the contact details below.

NSTF-South32 Awards theme: The theme for the 2016/2017 NSTF-South32 Awards is **'Innovation towards a prosperous future'**. The theme highlights the importance of Sustainable Tourism for Development as declared by United Nations for 2017, #IYSDT17.

Please forward this email to your colleagues, business contacts and all interested persons.

Please advise the NSTF Awards Secretariat of any changes.

Send us your news

The NSTF-South32 Awards, as well as NSTF and Innovation Hub projects, is aimed at promoting and celebrating SET and innovation in SA. We would like to hear about your achievements, or those of your colleagues, that you think should be considered for a future nomination.

Please contact Wilna Klotsen at wilna@nstf.co.za.

Feedback

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

About the NSTF

The National Science and Technology Forum (NSTF), established in 1996, is a broadly representative stakeholder body for all SET and innovation stakeholders in South Africa, which seeks to influence and inform national policy and practice.

The NSTF Council, elected every year, represents the stakeholders in government, business, labour and civil society in SET and innovation.

The NSTF is a non-profit company (NPC) registered in terms of companies and business promotion for advocacy, lobbying and consultation.

Disclaimer

The NSTF has taken all practical measures to ensure that the material contained in this newsletter is accurate, complete, reliable, current and free from any defect or omission.

Privacy

Personal information provided to the NSTF will be treated confidentially and will only be used by the NSTF in accordance with its terms and conditions.

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