

## 2017/2018 NSTF-South32 Awards – Celebrating 20 Years

### Winners of the 2017/2018 NSTF-South32 Awards

The NSTF-South32 Awards were held at a prestigious Gala Dinner in Gauteng on Thursday, 28 June 2018. This is the 20th anniversary celebration of the flagship project of the National Science and Technology Forum (NSTF). To celebrate the event, tributes were made to the 203 NSTF Awards recipients (since 1998 to 2017) and a special anniversary award to Dr Xolani Humphrey Mkhwanazi.

Outstanding contributions to science, engineering and technology (SET) and innovation were awarded and celebrated in the following broad areas under 13 categories:

- Scientific research
- Innovation
- Management and related activities
- Capacity development in engineering research
- Environmental sustainability and biodiversity conservation
- Water research and innovation
- Data management and stewardship
- Communication
- Technology transfer, as well as education and training
- Sustainable energy for all (special annual theme award in recognition of the International Decade of Sustainable Energy for All (#SEforAll) declared by the United Nations)

**About the NSTF and the awards:** The NSTF is the most representative multi-stakeholder non-profit forum in South Africa

promoting SET and innovation. The NSTF-South32 Awards showcase the research and development capacity of our nation. The excellent output of the winners supports South Africa's advancement and the social upliftment of our people.

**Why are these awards different?** The national NSTF-South32 Awards are the largest SET and innovation awards in South Africa. They are known as the 'Science Oscars' and were the first science awards in the country. The focus is on spreading information about SET to the public, which includes the year-long engagement programme with students and learners called 'Share 'n Dare'. The NSTF Brilliants Programme recognises the outstanding matric performers in mathematics and physical science, exposing them to the SET network and future opportunities.

**Award winners:** The awards were presented by the Honourable Minister of Science and Technology, Ms Mmamoloko Kubayi-Ngubane, who is the event's patron. She celebrated along with over 600 guests and over 50 different organisations from the broader community. It is an honour to be nominated, it is an outstanding achievement to reach the finals and an exceptional milestone and celebration of excellence to win one of these awards.

**Ms Jansie Niehaus**  
NSTF Executive Director and Spokesperson

The NSTF and its sponsors congratulate the 2017/2018 NSTF-South32 Award winners.



**Dr Xolani Humphrey Mkhwanazi**

Director and Chairman: Phathela Investments (Pty)Ltd; Vice-Chairman: Public Investment Corporation; Chancellor: Vaal University of Technology; Chairman: Central Energy Fund; and Non-Executive Director: South32, Gibela, and Murray & Roberts  
Ukhozi Award: for an essential contribution to the NSTF and the NSTF Awards (in celebration of the 20th anniversary of the NSTF Awards)



**Prof Kevin Wall**

Independent Consultant; and Extraordinary Professor: Department (Dept) of Construction Economics, University of Pretoria (UP)  
Lifetime Award: (by an individual over 15 years or more)



**Prof Etheresia (Resia) Pretorius**

Head: Dept of Physiological Sciences; Director: Applied Morphology Research Centre, Dept of Physiology, Stellenbosch University (SU)  
TW Kambule-NSTF Award: Researcher through research and its outputs (by an individual up to 15 years as a researcher predominantly in South Africa)



**Mrs Wendy Collinson**

Project Executant: Wildlife and Roads Project, Endangered Wildlife Trust  
TW Kambule-NSTF Award: Emerging Researcher through research and its outputs (by an individual up to 6 years in research predominantly in South Africa)



**Dr Musa Manzi**

Senior Researcher and Director: Seismic Research Centre, School of Geosciences, University of the Witwatersrand (Wits)  
TW Kambule-NSTF Award: Emerging Researcher through research and its outputs (by an individual up to 6 years in research predominantly in South Africa)



**Prof Stephen Tollman**

Research Professor and Head: Division of Health and Population, Faculty of Health Sciences; Director: South African Medical Research Council/Wits Rural Health and Health Transitions Research Unit, Wits; Principal Scientist: International Network for the Demographic Evaluation of Populations and their Health, Ghana  
Management Award: contribution through management and related SET and innovation activities (by an individual over the last 5 to 10 years)







**Prof Mmantsae Diale**

Associate Professor: Dept of Physics, UP  
Engineering Research Capacity Development  
Award: (by an individual over the last 5 to 10 years)  
Sponsored by Eskom since 2003



**Prof Ian Jandrell**

Personal Professor: School of Electrical and Information Engineering; Executive Dean: Faculty of Engineering and the Built Environment; Joint leader: High Voltage and the Lightning/Electromagnetic Compatibility Research Group, Wits  
Engineering Research Capacity Development  
Award: (by an individual over the last 5 to 10 years)  
Sponsored by Eskom since 2003



**Prof Malik Maaza**

Senior Scientist: National Research Foundation Nano-sciences LABS, College of Graduate Studies, University of South Africa; Chair: United Nations Educational, Scientific and Cultural Organization Africa (UNESCO)  
NSTF-GreenMatter Award: towards biodiversity conservation, environmental sustainability and a greener economy (by an individual or an organisation over the last 5 to 10 years)  
Sponsored by GreenMatter since 2015



**Prof Leslie Petrik**

Professor: Dept of Chemistry, University of the Western Cape  
NSTF-Water Research Commission (WRC) Award: towards achieving sustainable water management, knowledge generation and solutions with demonstrated leadership and impact (by an individual or an organisation over the last 5 to 10 years)  
Sponsored by the WRC since 2017



**South African Social Attitudes Survey (SASAS)**

Coordinator: Mr Benjamin Roberts, Human Sciences Research Council  
Data for Research Award: for advancing the availability, management and use of data for research (by an individual or an organisation)



**Prof Keolebogile Motaung**

Founder: Global Health Biotech (Pty) Ltd; and Assistant Dean: Postgraduate Studies, Research, Innovation and Engagement, Faculty of Science, Tshwane University of Technology  
Innovation Award: Corporate Organisation for innovations and their research and/or development (by a team or an individual over the last 5 to 10 years)  
Sponsored by the Department of Trade and Industry



**SUN Magnetics (Pty) Ltd**

Director: Prof Coenrad Fourie; and Professor: Electrical and Electronic Engineering, SU  
Innovation Award: 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)



**University of Pretoria Institute for Sustainable Malaria Control (UP ISMC)**

Director: Prof Christiaan (Tiaan) de Jager; Dean: Faculty of Health Sciences; and Professor: Environmental Health, School of Health Systems and Public Health, UP  
Communication Award: for outreach and creating awareness (by a team or individual over the last 5 years)



**The Platinum Incubator**

Chief Executive Officer: Ms Sibongile Purity Shongwe  
Non-Governmental Organisation (NGO) Award: including technology transfer, and education and training activities (over the last 5 to 10 years)



**Prof Harald Winkler**

Director: Energy Research Centre, University of Cape Town  
Special Annual Theme Award: Sustainable Energy for All (in recognition of the United Nations 'International Decade of Sustainable Energy for All')

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