



National Science and  
Technology Forum



Today's research ... tomorrow's innovation

## Winners of the 2015/2016 NSTF-South32 Awards

The 18<sup>th</sup> National Science and Technology Forum (NSTF)-South32 Awards Gala Dinner was held in Gauteng on Thursday, 30 June 2016. Contributions to excellence in science, engineering and technology (SET) and innovation were awarded and celebrated in the following broad areas:

- Scientific research
- Capacity building in engineering and research
- Research leading to innovation
- Scientific contributions towards environmental sustainability
- Management of SET and innovation
- Science communication
- And a Special Annual Theme Award for Crop Science and Food Security

**SA needs to develop new products, technologies and services:** As previously stated by the Minister of Science and Technology, Mrs Naledi Pandor, South Africa's science mission is to create wealth, thereby creating jobs and eradicating poverty. Its success depends on our ability as a nation to develop new products, technologies and services.

**About the awards, the NSTF and the outstanding contributions from scientists, engineers and other SET professionals:** The NSTF-South32 Awards is the flagship project of the NSTF, the most representative

multi-stakeholder non-profit forum in South Africa promoting science and technology through collaborative effort. The Awards are a showcase of the research and development capacity of our nation. The outstanding contributions of the Awardees to SET and innovation generate hope for the advancement of our country and the social upliftment of all people in South Africa.

**What makes these awards special:** The national NSTF-South32 Awards are the largest SET and innovation awards in South Africa and they 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 the Share 'n Dare Programme. The NSTF-South32 Awards were the first scientific awards in the country to run this type of initiative.

**Award winners:** The awards were presented by the Honourable Minister of Science and Technology, Mrs Naledi Pandor, who is also the patron of the event. She celebrated along with almost 600 guests and over 40 different organisations from the broader community. Details of the award finalists, including the winners' work are available online at <http://www.nstf.org.za/whos-who/>.

The NSTF and its sponsors take pride in congratulating the 2015/2016 NSTF-South32 Award winners!

These are all awards for an outstanding contribution to SET and innovation by teams, organisations and individuals...



**Prof. Bert Klumperman**

*Distinguished Professor of Polymer Science, Stellenbosch University*

For a contribution over a **lifetime** by an individual



**Prof. David Berger**

*Professor: Department of Plant Sciences, University of Pretoria*

Special Annual Theme Award: **Crop Science and Food Security**, in celebration of the 2016 International Year of Pulses (sponsored by the Department of Science and Technology)



**Prof. Crick Lund**

*Director: Alan J Flisher Centre for Public Health, University of Cape Town*

TW Kambule-NSTF Award: for **research and its outputs** over a period of up to 15 years after award of a PhD or equivalent by an individual



**Prof. Bhekisipho Twala**

*Director: Institute for Intelligent Systems, Professor of Artificial Intelligence and Statistical Sciences, University of Johannesburg*

TW Kambule-NSTF Award: for **research and its outputs** over a period of up to 15 years after award of a PhD or equivalent by an individual



**Prof. Sue Harrison**

*Director: Centre for Bioprocess Engineering Research, DST/NRF SARChI Chair: Bioprocess Engineering, University of Cape Town*

For **engineering capacity development** by an individual over the last 5–10 years (sponsored by Eskom)



**Prof. Thokozani Majazi**

*DST/NRF SARChI Chair: Sustainable Process Engineering, School of Chemical and Metallurgical Engineering, University of the Witwatersrand*

For **engineering capacity development** by an individual over the last 5–10 years (sponsored by Eskom)



### Prof. Peter Dunsby

*Professor of Cosmology and Co-Director: Astrophysics, Cosmology and Gravity Centre, Department of Mathematics and Applied Mathematics, University of Cape Town*

For **research capacity development** by an individual over the last 5–10 years



### Dr Tolu Oni

*Head of Department and Director: School of Public Health and Family Medicine, University of Cape Town*

TW Kambule-NSTF Award: to an **emerging researcher** (post-doctoral in a period of up to six years after the award of a PhD or equivalent in research) (prize sponsor - proSET)



### Dr Sudesh Sivarasu

*Senior Lecturer, Biomedical Engineering, University of Cape Town*

TW Kambule-NSTF Award: to an **emerging researcher** (post-doctoral in a period of up to six years after the award of a PhD or equivalent in research) (prize sponsor - proSET)



### Dr Suprakas Sinha Ray

*Chief Researcher and Director: Polymer Nanocomposites, DST/CSIR Nanotechnology Innovation Centre; and National Centre for Nano-structured Materials, CSIR*

For **management and related activities** by an individual over the last 5 – 10 years



### Mondi Ecological Networks Programme

*Team Leader: Prof. Michael Samways, Stellenbosch University*

NSTF-GreenMatter Award: by an individual or an organisation towards achieving **biodiversity conservation, environmental sustainability and a greener economy**



### Prof. Jan Smit

*Manager: Science Centre, North West University*

For **communication for outreach and creating awareness** by a team or individual



### Advanced Casting Technologies, CSIR Materials Science and Manufacturing

*Research Group Leader: Dr Gonasagren Govender*

For **research leading to innovation** by a team or individual through a corporate organisation



### Umvoto Africa (Pty) Ltd

*Managing Director: Ms Rowena Hay*

For **research leading to innovation** by a team or individual in an SMME



### SmartXchange

*Chief Executive Officer: Mr Jonathan Naidoo*

To a **non-governmental organisation** through technology transfer and/or education and training activities

The winners were awarded with state-of-the-art trophies, manufactured through additive manufacturing (industrial 3D laser printing) with advanced materials (titanium), a first in SA and possibly the world.

### Ms Jansie Niehaus NSTF Executive Director and Spokesperson

NSTF, the non-profit stakeholder body for all SET and innovation organisations in South Africa

### Partners and sponsors



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Tel: 012 841 3987  
Email: [enquiries@nstf.co.za](mailto:enquiries@nstf.co.za)  
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