



NSTF-BHP Billiton Awards 2013/14

Winners of the 2013/14 NSTF-BHP Billiton Awards

Today's research ... tomorrow's innovation

Outstanding contributions to scientific research, technological innovation, management, capacity building and science communication were announced and celebrated in Gauteng on Thursday, 3 July 2014, at the 16th Annual NSTF-BHP Billiton Awards Gala Dinner.

According to the chairman of the adjudication panel, Mr Denis Hunt, the event saw an increased number of nominations, reflecting robust participation across all sectors, levels, gender and race, by researchers in and contributors to science and technology. "This is a reflection of the wealth of research and development being done in South Africa," he said.

BHP Billiton SA Chairman, Xolani Mkhwanazi said, "BHP Billiton's involvement in initiatives such as the NSTF gives us (BHP Billiton) the unique opportunity to connect with those people and communities who seek to innovate, create and discover as much as we do. It is this talent that will drive the scientific, technological and engineering development of our country and help South Africa achieve its goal of long-term economic and environmental sustainability.

The awards were presented by the Honourable Minister of Science and Technology, Ms Naledi Pandor, who is also the patron of the event, and celebrated along with almost 600 guests from the broader science community.

Details on the work of the award winners is accessible online at nstfawards.org.za

The 2013/14 Award winners are:

Professor Eric Bateman (*Emeritus Professor and Director, University of Cape Town Lung Institute; and Honorary Consultant, Division of Pulmonology, Department of Medicine, University of Cape Town*) – Award for an outstanding contribution to science, engineering and technology (SET) over a lifetime



Professor Lyn Wadley (*Honorary Professor: Department of Archaeology, University of the Witwatersrand*) and



Professor Keertan Dheda (*Professor: Division of Pulmonology, Department of Medicine, University of Cape Town and Groote Schuur Hospital*) – TW Kambule NRF-NSTF Awards for an outstanding contribution to SET through research and its outputs over the last 5 to 10 years – sponsored by the NRF



Professor Wanda Markotter (*Associate Professor: Natural and Agricultural Sciences, University of Pretoria*) and



Professor Oriël Matlhahane Thekisoë (*Associate Professor: Department of Zoology and Entomology, University of the Free State*) – TW Kambule NRF-NSTF Awards for an emerging researcher for an outstanding contribution to SET through research and its outputs over a period of up to six years after award of a PhD or equivalent in research – sponsored by the NRF



Professor Anne Grobler (*Director of the DST/NWU Preclinical Drug Development Platform, North-West University*) – Award for an outstanding contribution to SET through management and related activities over the last 5 to 10 years



Professor Brenda Wingfield (*Professor and Deputy Dean: Faculty of Natural and Agricultural Sciences, University of Pretoria*) and



Professor Donald Cowan (*Director: Genomics Research Institute; Director: Centre for Microbial Ecology and Genomics, University of Pretoria*) – Awards for researchers for an outstanding contribution to SET through research capacity development over the last 5 to 10 years – sponsored by Eskom



Professor Azwinndini Muronga (*Associate Professor of Physics and Director of the University of Johannesburg Soweto Science Centre*) – Award for an individual or a team for an outstanding contribution to science, engineering, technology and innovation (SETI) through communication for outreach and creating awareness over the last five years (sponsored by the South African Agency for Science and Technology Advancement [SAASTA])



Elemental (*Associate Professor Arnaud Malan, Department of Mechanical Engineering, University of Cape Town*) and



Hearing Loss Detection by Smartphone (*Team Leader: Prof De Wet Swanepoel, Department of Speech, Language Pathology and Audiology, University of Pretoria*) – Awards for an individual or a team for an outstanding contribution to SET through research leading to innovation in a corporate organisation or institution





Treatment Group, Tshwane University of Technology
(Team Leader: Professor Johannes Philippus Maree, Rand Water Chair in Water Utilisation and Key Structure Holdings (Pty) Ltd) – Award for an individual or a team for an outstanding contribution to SET through research leading to innovation in a Small, Medium or Micro Enterprise (SMME) – sponsored by the Technology and Human Resources for Industry Programme (THRIP), an initiative of the Department of Trade and Industry (**the dti**)

The [National Science and Technology Forum](#) (NSTF) Awards, hosted in partnership with BHP Billiton since 2011, is the flagship project of the largest, most prominent, multi-stakeholder, [non-profit forum](#) for science, engineering and technology in South Africa – promoting science-related activities through collaborative effort.

The Brilliants Programme for our future innovators

In conjunction with the NSTF–BHP Billiton Awards, the NSTF runs the [Brilliants Programme](#) aimed at recognising and rewarding first-year science and engineering students (a young man and woman from each of the nine provinces), who obtained top marks in Mathematics and Physical Science in the 2013 National Senior Certificate Examinations. Travel and accommodation for the students are sponsored by the NSTF, enabling them to attend the main Awards Gala Dinner as special guests of honour and gain exposure to the research fraternity of South Africa.

“The Brilliants Programme has been very useful in recognising deserving top performing students, most of whom are previously disadvantaged, and in assisting them to get bursaries,” says Jansie Niehaus, Executive Director of the NSTF. “The THRIP Programme, funded by the dti, has committed to providing bursaries to at least two of these students every year.”

This year nineteen awardees have been recognised and exposed to the research fraternity, and four of these have been awarded a THRIP bursary. The NSTF and its membership congratulate these Brilliant minds on their excellent results.

The Brilliants Awardees are:

Eastern Cape

Miss Vivienne Dames
Victoria Girls High School
BSc (Zoology, Botany)
Rhodes University



Mr Yandisa Ndongeni
Khanyisa High School
BEng (Mining Engineering)
University of Pretoria



Free State

Miss Dimakatso Mosheshe
Leseding Technical Secondary
School
BSc (Electrical Engineering)
University of Pretoria



Mr Malan Bosman
Grey Kollege Secondary School
BEng (Industrial Engineering)
Stellenbosch University



Gauteng

Miss Zandile Mbonxa
Leshata Secondary School
BSc (Veterinary Sciences)
University of Pretoria



Mr Reginald Dhlamini
Mohloli Secondary School
BSc (Chemical Engineering)
University Of Witwatersrand



KwaZulu-Natal (2x Females this year)

Miss Mikasha Govender
Awarded a THRIP bursary
MarkLand Secondary School
MBChB (Medicine)
University Of KwaZulu Natal



Mr Musa Xakaza
JG Zuma High School
BSc (Computer Engineering)
University of Cape Town



Miss Teagan van Wyk
Awarded a THRIP bursary
Danville Park Girls High School
MBChB (Medicine)
University of Cape Town



Limpopo

Miss Khuthadzo Tshiovhe
Patrick Ramaano Secondary
BSc (Mathematical Science)
University of Witwatersrand



Mr Madzanga Muzhelele
Awarded a THRIP bursary
Thengwe Secondary
BEng (Chemical Engineering)
University of Pretoria



Mpumalanga

Miss Leané Van Der Merwe
Hoerskool Hoogenhout
BSc (Veterinary Sciences)
University of Pretoria



Mr Simon Chili
Awarded a THRIP bursary
Kwandebele Science Combined
School
B Eng (Mechanical
Engineering)
University of Cape Town



North West

Miss Tshimologo Phorotlho
Batswana High Commercial
School
BEng (Electrical Engineering)
University of Witwatersrand



Mr Tebogo Raseroka
Mmankala High School
BEng (Electrical Engineering)
University of Pretoria



Northern Cape

Miss Matlhogonolo Olepeng
Galaletsang High School
B Eng (Mechanical
Engineering)
University of Witwatersrand



Mr Rebakakgosi Mohutsiwa
Pampierstad High School
B Eng (Mechanical
Engineering)
University of Witwatersrand



Western Cape

Miss Ruth Meek
Worcester Gimnasium
BEng (Chemical Engineering)
Stellenbosch University



Mr Peter Thompson
York High School
BSc (Mathematical Science)
Stellenbosch University



We also call on more organisations that can provide bursaries to form partnerships with the NSTF's youth programmes. Email: enquiries@nstf.co.za or contact the NSTF Office at the contact details below.

Share 'n Dare Programme – Publicity and Outreach Campaign with Winners

This prestigious recognition also profiles the winners as role models to thousands of young people at Science Centres and Universities across the country, through an outreach programme named the **Share 'n Dare Programme**. In this programme, the youth are inspired by the Award winners to take up careers in the sciences and engineering. Thousands of South Africans are also reached through community and

campus radio station interviews, as well as the Awards media partnerships with Business Report and Mail & Guardian, ensuring that not only the winners but also their employers are recognised as experts in their fields.

The next round of the Share 'n Dare Programme will now kick off. See [the list of activities](#) in which the past round of winners participated during 2013-14 and grab hold of this unique opportunity to brand your organisation amongst the youth.

The outcomes of all the interactive activities are evaluated annually, for the impact of information shared with the community at large and for continued suitability. The results indicate the widespread reach of the Awards brand nationwide to learners, students, communities, as well as the general public.

Organisations are invited to join hands with the NSTF and widen the reach of the programme by inviting Award winners through the NSTF Office to inspire and motivate the youth at any of their outreach programmes. To make this possible, contact Ms Makwena Ramaru at the contact details below.

The theme for the 2013/14 NSTF-BHP Billiton Awards gala dinner is **Crystallography**, as declared by the United Nations as an International Year for 2014, to commemorate not only the centennial of X-ray diffraction, which allowed the detailed study of crystalline material, but also the 400th anniversary of Kepler's observation in 1611 of the symmetrical form of ice crystals, which began the wider study of the role of symmetry in matter.

[What do you think of the NSTF-BHP Billiton Awards eNewsletter?](#)

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

The **National Science and Technology Forum** (NSTF), established in 1995, is a broadly-representative stakeholder body for all SETI organisations in South Africa, which seeks to influence policy formulation and delivery.

The **NSTF-BHP Billiton Awards** are unique in SA, recognising the outstanding contributions of individuals and groups to SETI.

www.sciencebursaries.org.za - SET for life! This exciting web portal is a 'one-stop shop' for learners and students who are interested in pursuing a career in the sciences, engineering or technology.

Catch us on our mobi site

Easy access to NSTF news on your cell phone! www.nstf.org.za/mobi/

Disclaimer

The NSTF has taken all practical measures to ensure that the material contained in this newsletter is correct. The NSTF reserves the right to make changes as it deems necessary. Contact details submitted by individuals for subscription purposes will be treated confidentially.

Please forward this eNewsletter to anyone who might be interested.

[Subscribe or Unsubscribe](#)



For more information, contact the NSTF Secretariat at:
E-mail: enquiries@nstf.co.za Tel: 27 12 841 3987 Fax: 27 12 841 3025
Non Profit Company Registration Number: 2007/029165/08 NPO registration nr. 92042
Donor tax exemption for all donations to the NSTF

Disclaimer

The information contained in this communication from the sender is confidential. It is intended solely for use by the recipient and others authorized to receive it. If you are not the recipient, you are hereby notified that any disclosure, copying, distribution or taking action in relation of the contents of this information is strictly prohibited and may be unlawful.

This email has been scanned for viruses and malware, and automatically archived by **Mimecast SA (Pty) Ltd**, an innovator in Software as a Service (SaaS) for business. **Mimecast Unified Email Management™ (UEM)** offers

email continuity, security, archiving and compliance with all current legislation. To find out more, [contact Mimecast](#).