

NATIONAL SCIENCE WEEK 2007



Here are some of the highlights of what you can expect in your Province, including the contact details of organisers for more information on what's happening near you:

PROVINCE: EASTERN CAPE		
Highlights of Activities	National Science Week Sites and Organisers in the Eastern Cape Province	
<p>✚ South African Institute for Aquatic Biodiversity (SAIAB) will present workshops on:</p> <ul style="list-style-type: none"> ⊖ Oceanography workshop ⊖ Fish population dynamics workshop ⊖ Aquatic Biodiversity picture Game ⊖ Coelacanths and their spots learner workshops ⊖ Coelacanth and fossils learner workshops 	<p>Ms K Binning South African Institute for Aquatic Biodiversity (SAIAB) GRAHAMSTOWN</p> <p>041 584 0650 084 581 1828 07</p>	<p>Mr. C Masiza 20 Moffat Street Milner Estate EAST LONDON 5206</p> <p>040 735 1440 082 342 6355</p>
<p>✚ Sci-Fest Africa will host workshops for learners, educator on the Science of making Umqomboti and Discovering Polymers.</p> <p>✚ Public talk on <i>"Indigenous knowledge and its contribution to science and the 21st century community"</i> - University of Fort Hare</p> <p>✚ Wonders of the World of Science - A science workshop presented by Fort-Hare University Students from the East London Campus.</p> <p>✚ How I teach Maths : A demonstration lesson on methodologies of teaching Mathematics By a teacher Ms. Grace Boya with about 15 learners as participants.</p>	<p>Ms Tina Moss SCI -FEST AFRICA Grahams Town Foundation</p> <p>046 603 1106 082 530 1394</p>	<p>Ms. T Nkukwana University of Fort Hare Faculty of Science and Agriculture ALICE</p> <p>040 602 2160 082 655 9399</p>
	<p>Mr S Ntisa Department of Education Mt Frere Main Street Mt Frere 5090</p> <p>039 254 0039</p>	

PROVINCE: FREE STATE

Highlights of Activities	National Science Week Sites and Organisers in the Free State Province
<ul style="list-style-type: none"> ✚ Open day presented by the Free State National Botanical Gardens. All members of the public invited on 12 May 2007. ✚ Boyden Science Centre school programs: The application of school mathematics to astronomical problems. It will include astronomy multi-media presentations, stargazing with the various telescopes as well as the solar telescope, viewing of the 1,5-m UFS Boyden Telescope and a talk on the current scientific work being done at the Boyden Observatory and recent discoveries in astronomy. 	<p>Ms MP Moseme Leseding Technical Secondary School 10976 Constantia Road Extension Thabong WELKOM</p> <p>057 397 1002/3 073 133 4222</p>
<ul style="list-style-type: none"> ✚ The Free State National Botanical Gardens present a Secondary school program: Treasure Hunt (learning about indigenous plants). ✚ Sanae 13 – slide show by an ex-Antarctica scientist of the different careers and activities in Antarctica at Tshiya Education Resource Centre. 	<p>Ms N Nhlapo Tshiya Resource Centre Seoke Street Beirut PHUTHADI TJHABA</p> <p>058 713 0056/7/8/9 082 305 0459</p>
<ul style="list-style-type: none"> ✚ Workshop for school learners on the importance of science for agriculture with demonstrations by various departments in the Faculty of Natural and Agricultural Sciences related to the value chain of making cheese and yogurt. Information on careers in agriculture will be provided. ✚ The National Museum on Traditional biotechnology: antibiotics, amasi, cheese & traditional beer: (learners will receive homework on finding out from the elders of the community how to brew a traditional beer) – indigenous knowledge. 	<p>Dr M Hoffman Boyden Science Centre Department of Physics Kampus Ave Suid University of Free State Campus Nelson Mandela Road BLOEMFONTEIN</p> <p>051 401 2924 083 625 7154</p>
<ul style="list-style-type: none"> ✚ School of Education University of the Free State on Family Maths and Family Science school programs: Materials found in and around the home are used to do fun activities in order to fix science and mathematics concepts. 	<p>Mr BW Jeremiah Central University of Technology - Free State 20 President Brand Street BLOEMFONTEIN</p> <p>051 507 3070/3081 084 919 5962</p>

PROVINCE: GAUTENG		
Highlights of Activities	National Science Week Sites and Organisers in the Gauteng Province	
<ul style="list-style-type: none"> ✚ Learner Workshop under theme Climate Change in my City - Sci-Enza Science Centre. ✚ The Zoo-Mobile Outreach Projects will visit various primary schools to offer the programme "The Magic of Owls". This programme will link various themes ranging from biodiversity to physical and behavioural adaptations, from conservation problems to conservation solutions, from owls as an integral part of the ecosystem to owls in culture and folklore. ✚ Designing and making technology artifacts and prototype. The session starts with background and purpose of engineering design in industry - Tshwane University of Technology. ✚ Public Open Day: 3 Hours Presentations about South African Nuclear Energy Corporation (Necsa) and its activities on 12 May 2007. ✚ Hartebeesthoek Radio Astronomy Observatory (HartRAO) :Open Day whereby members of the community will be treated to an educational & entertaining day, including activities and a tour around the facilities. ✚ City of Johannesburg Libraries: SET Career Exhibitions & interactive exhibits by Municipal owned entities such s Joburg Water, Road Agency, City Power and Pikitip explaining the science behind the services rendered to the public by these entities. ✚ Learning to make an emergency siren at Sci-Bono. 	<p>Ms C. Janneker South African Nuclear Energy Corporation (Necsa) Phelindaba PRETORIA WEST</p> <p>012 305 5750 083 488 3850</p>	<p>Ms C Malinga SCI-BONO Discovery Centre JOHANNESBURG</p> <p>011 639 8400 083 577 4394</p>
	<p>Mr. U Oberprieler National Zoological Gardens PRETORIA</p> <p>012 328 3265 ext 143 072 599 4253</p>	<p>Ms MA Koloko Harterbeeshoek Radio Astronomy Observatory</p> <p>012 326 0742 083 431 8856</p>
	<p>Ms Maryna Moolman City of Johannesburg Libraries BRAAMFONTEIN</p> <p>082 559 3781</p>	<p>Mrs R. Horak Sci - Enza Science Centre University of Pretoria PRETORIA</p> <p>012 420 2865 072 380 3070</p>
	<p>Mr M Makgato Tshwane University of Technology Soshanguve North Campus (TCE) SOSHANGUVE</p> <p>(012) 832 9394 083 319 6948</p>	

PROVINCE: LIMPOPO		
Highlights of Activities	National Science Week Sites and Organisers in the Limpopo Province	
<ul style="list-style-type: none"> ✚ Phalaborwa Foundation leads excursion to the environmental education centre through- Masorini archeological site. A bushwalk with rangers in the Kruger National Park demonstrating the art of tracking, as the use of handheld GPS technology. ✚ The popular Sci-Quest interactive travel exhibits will be at Bokamoso Science & Technology Education Centre (BOSTEC) throughout the National Science Week. ✚ Makhado Air Force Base will host various groups of learners exposing them to science-based careers relevant to activities of Air Force: Ramaano EMPC 	Mr. M Morudu Bokamoso Science & Technology Education Centre (BOSTEC) Burgerrecht Village Blouberg Municipality Senwabarwana 015 268 3099 083 471 3414	Mr ME Mashimbye Lemana Education Multi-purpose Centre Lemana Mission Mahanges Kraal ELIM 0960 015 556 3148 082 935 5358
	Mr AN Matodzi Raamano Education Multi-purpose Centre Raamano Mbulaheni TSHAKHUMA MAKHADO 015 583 0562	Mr. M.J. Chauke Giyane Science Centre Stadium Road Giyani Section A GIYANI 0826
	Mr. R. Duba Phalaborwa Foundation Cnr.Calvin Ngobeni/Tambo Street NAMAKGALE 1391 015 769 5052 083 643 9928	Dr D. Ndove SHINGWEZI Education Multi-purpose Centre Malamulele Central 015 851 0917/8 073 608 2684

PROVINCE: KWAZULU-NATAL		
Highlights of Activities	National Science Week Sites and Organisers in the Kwazulu-Natal Province	
<ul style="list-style-type: none"> 🚩 DNA extraction and application of the science of DNA in paternity and forensics investigations: Medical Research Council MRC). 🚩 Mathematics of Finance- Workshop by AMESA. 🚩 The Unizul Science Centre will be running a special Parents' NSW programme all morning including the following activities: <ul style="list-style-type: none"> ⌘ Exploring over 200 science exhibits; ⌘ Science of Sport Show; ⌘ Good Vibrations Show; ⌘ Magic show; and ⌘ Traditional games competitions 🚩 Workshop by CASME: Introduction to Organic Chemistry Learners will learn about ratio and proportion of ingredients in brewing process. 🚩 MRC on Indigenous Knowledge Systems - Innovation within IKS and its application and relevance in everyday life with a scientific focus to it. 🚩 Ongoing exhibition by over 30 governmental, parastatal& private organizations at Old Mutual -MTN Science Centre. Activities include displays, interactive demonstrations, Career Guidance, informal science, maths& technology workshops. 	Mr. P Yegambaran AMESA - KZN (Northern Region Maths Society) 032 943 1271 083 296 5632	Mr. M Peter Old Mutual -MTN Science Centre Umhlanga Rocks 031 566 8040 083 276 9506
	Mrs. J Porter South African Association for Marine Biological Sciences (SAAMBR)(SEA WORLD) DURBAN 031 328 8190 083 283 9265	Mr M.A. Mosala Umzimkulu College Department of Education Umzimkulu 039 259 0962 083 351 3114
	Mr. D. Fish Unizulu Science Centre RICHARDS BAY 035 797 3204 082 452 8566	Mrs Tsepiso Khalema Centre for the Advancement of Science and Mathematics Education (CASME) University of KwaZulu-Natal Edgewood Campus DURBAN 031 260 3434 082 498 6499

PROVINCE: MPUMALANGA	
Highlights of Activities	National Science Week Sites and Organisers in the Mpumalanga Province
<ul style="list-style-type: none"> ✚ Guided tours of the selected industries (including TSB – Mpumalanga, Denorco – Hammanskraal): Presentations about raw material to finish products in relation to science and technology and exposure to different careers related to hosting industry. ✚ Osizweni hosts daily exhibits on the following areas: <ul style="list-style-type: none"> ⊖ Sasol exhibition (Petrochemical processes) ⊖ Eskom exhibition (Electricity generation) ⊖ SAPS Exhibition (forensic science) ⊖ Careers @ Gert Sibande FET College ⊖ Careers @ Tshwane University of Technology ⊖ Careers @ Vaal University of Technology ⊖ Educational programs @ Damelin ⊖ Veterinary services & Disease control ⊖ Navigation services & Air traffic control ⊖ ICASA exhibition on careers ⊖ Mathematics exhibition (MSPT) ⊖ GIS in schools (GIMS) ⊖ Artwork made out of waste ⊖ Engineering applications in the SANDF 	<p>Dr Rufus Wesi Osizweni Community Development Centre Secunda</p> <p>017 689 2005 082 859 1720</p> <hr/> <p>Ms D. Nkosi Mpumalanga Department of Education Riverside Park NELSPRUIT</p> <p>013 766 5409 083 455 7932</p>

PROVINCE: NORTHERN CAPE	
Highlights of Activities	National Science Week Sites and Organisers in the Northern Cape Province
<p>South African Astronomical Observatory (SAAO) brings some of the following:</p> <ul style="list-style-type: none"> 🚩 Science Show: basic equipment is used to demonstrate some of the concepts in astronomy and physics. Learners will be encouraged to try similar experiments at school/home. 🚩 Presentation on African Astronomy: a talk on some of the work being done at the SAAO relating to the history of astronomy in Africa and the contribution of African people to Astronomy. 🚩 Workshops on astronomy and space science expanding learners' experience on the "Earth and Beyond" theme through hands-on demonstrations of the general principles of physics involved. 🚩 Facility Tour: A tour of the Sutherland site is a fantastic experience for any learner and will entail a visit to SALT as well as a walk through the visitor centre which contains models and explanations of various astronomical phenomena. 🚩 Role Models: Learners addressed by some of the most inspiring astronomers at SAAO who will talk about what they do and how they got to where they are. 🚩 Public Tours: day during that week there will be an open free tour for the public (1 tour for up to 20 people per weekday plus free shuttling up to the observatory for 10 members of the Sutherland community per day). 🚩 Public Viewing across NC: There will be telescopes distributed to Sutherland, Kimberley and Springbok for public viewing. These will be operated by NI HE and the NCDOE respectively. 🚩 Stargazing for learners: The learners from far away stay over for 2 nights in Sutherland. They receive a special star gazing evening during one of the nights that they stay over. 	<p>Mr Aloysious Gowne National Institute For Higher Education (NIHE) KIMBERLEY</p> <p>053 807 5358 073 253 2750</p> <hr/> <p>Mr. K. Govender South African Astronomical Observatory (SAAO) OBSERVATORY</p> <p>021 460 9350 082 487 8466</p>

PROVINCE: NORTH-WEST	
Highlights of Activities	National Science Week Sites and Organisers in the North-West Province
<p>✚ The Central Region - Mafikeng will hosts Role Models: Involves interactive talks by university students, scientists and technologists, and engineers sharing the learning and working experience with learners, to encourage them to follow careers in SET fields and also expose them to the important role SET play in our daily lives. Presentations will cover different SET fields and they will also be interesting SET lecturer demonstrations.</p>	<p>Prof J.J.A. Smith/Mrs Mada Vosloo North West University Science Centre SSMTE, Department of Physics POTCHEFSTROOM</p> <p>018 299 2405 082 671 2665</p>
<p>✚ The Tshwane University of Technology (TUT) displays the use of CAD in manufacturing a mould, e.g. plastic injection moulding. The session will start with the discussion and background of tool and die making in industry.</p>	<p>Mr M Moeketsi BEST</p> <p>014 569 1516 082 809 3661</p>
<p>✚ Learners, educators and parents will have an opportunity to view and interact with a variety of science exhibits at the University of North-West Science Centre.</p>	<p>Mr M Makgato Tshwane University of Technology Soshanguve North Campus (TCE) SOSHANGUVE</p> <p>(012) 832 9394 083 319 6948</p>

PROVINCE: WESTERN CAPE		
Highlights of Activities	National Science Week Sites and Organisers in the Western Cape Province	
<p>🚩 Open Day of Facilities at iThemba LABS on 12 May 2007: (children under the age of 18 are not allowed on the tour due to radiation laws – edutainment provided for these visitors).</p> <p>🚩 Interactions with researchers and students from Hermanus Magnetic Observatory (HMO) Space Physics Groups. Learners will plot sunspot cycles HMO electronic weather station Communicate with HMO engineer Zama and other researchers at the SANAE base using Amateur radio</p> <p>🚩 Lötter Kock shares his experience. The Antarctic Experience Living and working at the SANAE base Lotter Kock spent 14 months at the SANAE base as part of the South African National Antarctic Programme. He will share his living and working experiences as an Electronic Engineer - HMO</p> <p>🚩 Communicate with HMO electronics engineer Zama and other researchers at the SANAE base in the Antarctic using Amateur radio.</p> <p>🚩 The MTN ScienCentre: Parents, educators and learners will have an opportunity to experience the popular displays and activities including the following:</p> <ul style="list-style-type: none"> ⌘ The Murray and Roberts Building Africa activity Zone ⌘ The Mind Ball ⌘ The Soyuz capsule ⌘ Sony-Ericsson Giant Cell Phone ⌘ Camera Obscura ⌘ Left/Right Brain Quizz ⌘ Audio-kinetic Sculpture 	<p>Dr Chinsamy-Turan Univ of Cape Town Zoology Dept Rondebosch</p>	<p>Miss J Cleverdon MTN SCIENCE CENTRE Canal Walk Century City CAPE TOWN 021 529 8100 083 276 9501</p>
	<p>Mr Ambrose Yaga iThemba LABS FAURE</p> <p>021 843 1000 021 843 1113 082 564 9301</p>	<p>Ms Elisa Fraser Hermanus Magnetic Observatory (HMO) HERMANUS</p> <p>028 312 1196 072 432 1262</p>