



NEWS RELEASE

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AFRICA AEROSPACE AND DEFENCE (AAD) AIR TRAFFIC AND NAVIGATION SERVICES COMPANY (ATNS) YOUTH SCIENCE COMPETITION 2008 FINALISTS

As part of the Africa Aerospace and Defence (AAD) Youth Development Programme (YDP), the Air Traffic and Navigation Services Company (ATNS) together with the AAD organisers ran a Youth Science Competition from May 2008 to August this year.

The aim of this competition was to encourage young people to pursue an interest in science and mathematics and embark on scientific related careers. It highlighted the many opportunities that the world of science can offer to young people and also ensure a greater public participation of science and the role it plays in every aspect of our daily lives. Entrants could select any one of the proposed 15 themes which covered a wide range of scientific disciplines ranging from space law, aerospace design, aviation science, space tourism and rocketry to air traffic control.

The AAD Exhibition which is to be held from 17th -21st September at the Air Force Base Ysterplaat in Cape Town, will as part of the expo also stage a comprehensive Youth Development Programme in Hall 4.

From this year's allotted 15 Themes, the Essays on Engineering Science (Robotics), design a bed and chair for astronauts who live in space, investigate the impact and role of the Cyber Virus in IT, the possibility of permanent human habitation in space have made it through to the finals of the AAD ATNS Youth Science Competition. The finalists come from Limpopo, Polokwane, Gauteng and the Eastern Cape.

Our finalists

From **BISHOP BAVIN ST GEORGES SCHOOL** (Gauteng, Bedfordview) our finalists are *Tom Wyszkoski, Akshit Chhabra* (essay topic) Environmental Science/Technology Design: Earth Gone! – The Underwater Human Habitat in 2050.

From **CAPRICORN HIGH SCHOOL** (Limpopo, Polokwane) our finalists are *Khutjo Ramogale, Kagiso Morudu* (essay topic) Engineering Science/Chemistry [Space Models/Rocketry]: The Physics of Rocket Motors - Propellant Design & *Thulo Maepa, Francis Shika* (essay topic) Aviation Science: High Altitude Aviation in 2050 - The Karman Line.

From **DALINDYEBO HIGH SCHOOL** (Eastern Cape, Umtata) our finalists are *Onesimo Langeni, Bongwiwe Mboli* (essay topic) Engineering Science (Robotics): The design of a robot arm (Robo-Arm) & *Nontando Magwa, Sinazo Mgcaleka* (essay topic) AeroSpace Design/Ergonomics: The Astronaut's Bedroom: Design a bed and chair for astronauts who live in space.

From **MBILWI SECONDARY SCHOOL** (Limpopo, Sibasa) our finalists are *Ramudzuli Zwivhuya* (essay topic) Engineering Science (Robotics): The design of a robot arm (Robo-Arm) & *Mashudu Makhado, Mbodi Muthambi and Mulisa Nemutandani* (essay topic) the possibility of permanent human habitation in space.

From **TSHIKEVHA CHRISTIAN SCHOOL** (Limpopo, Thohoyandou) our finalists are *Gautam Rao, Tshifhiwa Nekhavhambe* (essay topic) Computer Science: The Virus Factor - Investigate the impact and role of the CyberVirus

in IT, Specifically the Internet, in 2050 & *Fhumulani Khobo, Rofuniwa Mammba* (essay topic) Engineering Science [Technology]: Satellite Applications in 2050 & *Ntakuseni Razwiedani, Matimba Mabasa* (essay topic) Computer Science: The Virus Factor - Investigate the impact and role of the CyberVirus in IT, specifically the Internet, in 2050

The winners will be selected and announced at a prize giving ceremony on the 19 September 2008 at AFB Ysterplaat in Cape Town. The prizes will be awarded as 1st, 2nd and 3rd Place.

The Prizes

The team members of the winning teams will receive voucher prizes - First prize: R6000, Second prize: R4000, Third prize: R2000. The winning schools will each also receive a computer from ATNS to further the role and use of technology in the classrooms.

The judges were impressed with the quality of the entries, and selecting the winning teams were a formidable task. The organizers of this competition further stated that the high standard of the entries is indicative of the huge amount of time spent on researching the topics and the innovative approach of the learners. The prime objective of this competition to stimulate young minds and to further their minds into the world of science and technology was a huge success and all the teams need to be congratulated.

The AAD exhibition will be open to the public on Saturday 20th September and Sunday 21st September and the public is invited to visit the YDP Exhibition in Hall 4.

For further information, please contact:

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Notes to the editor:

ATNS is the sole commercial provider of air traffic, navigation and associated services in South Africa providing a service to 21 aerodromes around the country including Johannesburg, Cape Town and Durban International Airports. Together over six hundred thousand aircraft arrival and departure movements are handled at the ATNS services aerodromes every year. Standing strong with over 850 employees ATNS strives to continuously provide safe and orderly management of air traffic navigational and associated services.

ATNS is also responsible for the provision of aeronautical information used for flight planning purposes as well as amongst other search and rescue activities and the maintenance of a reliable navigation infrastructure.

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