

# 2009

## ESKOM EXPO for Young Scientists National Competition Stellenbosch Region - Results



**ESKOM EXPO for Young Scientists  
National Competition  
Stellenbosch Region - Results  
2009**

**Category: Energy (alternative, renewable, sustainable)**



**Diego February** (Diazville Secondary School, Saldanha) researched rabat-wine as a source of biofuel. He was rewarded with a **gold medal** as well as with the special prize from the **Centre for Renewable and Sustainable Energy Studies, University Stellenbosch**.

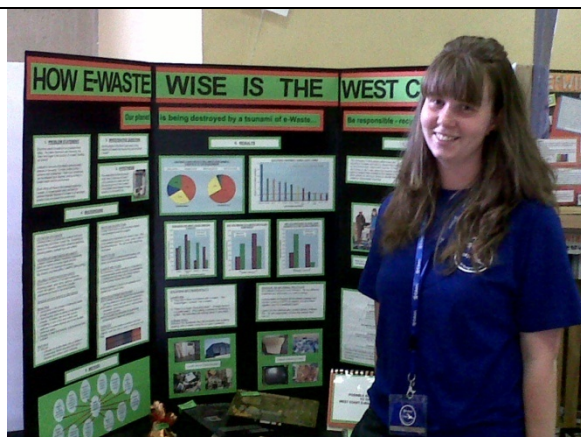
He has also been invited to attend the **International Sustainable World (Energy, Engineering & Environmental) Project Olympiad** in Houston, Texas, USA.

**Category: Agricultural Sciences**



**Annari Louw** (Bloemhof Girls' School, Stellenbosch) researched Rooibos tea as nutritional supplement for piglets. A **gold medal** was obtained and she has been invited to attend the **MILSET African Science Fair** in Reunion.

**Category: Recycled Materials**



**Johané Matthee** (Vredenburg High School) researched how e-waste wise the West Coast is. She got a **silver medal**. She has also been invited to attend the **MILSET African Science Fair** in Reunion.

**Category: Food Sciences and Food Technology**



**Andréa Kemp** (Rhenish Girls' School, Stellenbosch) researched carbon dioxide shock treatment for preserving unripened fruits. She got a **silver medal** and received two special prizes:

- **Citrus Research International Award**
- **SA Association for Food Science and Technology Award – 1<sup>st</sup> prize**

**Category: Engineering – Mechanical and Aeronautical**



**Johan Smit** (Augsberg Landbouginnasium, Clanwilliam) designed a mechanical farm gate which can be opened and closed by driving across. He obtained a **bronze medal** and the **National Innovation Competition for Learner Entrepreneurs (NICLE) Award**.

**Category: Plant Sciences**



**Anri Mathee** (Vredenburg High School) researched which potted plants laid down the most carbon percentage wise. She received a **silver medal** and a special award from the **Academy for Science and Arts: "Best usage of Afrikaans on a poster"**.

**Category: Physics**



**Gerhard Hoffman** (Bellville High School) researched the Mpemba effect. He received a **bronze medal** and a special award from the **Academy for Science and Arts: "Second best usage of Afrikaans on a poster"**.

**Category: Agricultural Sciences**



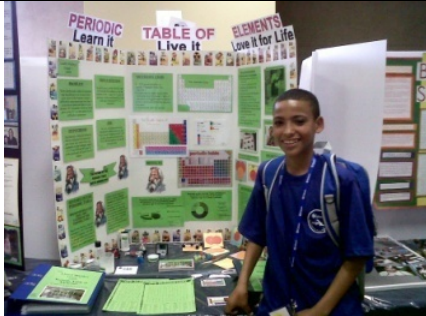
**Marijane Beukes and Salvin Wynand** (Uitkyk Primêre Skool, Lutzville) researched the use of "veldkool" (an indigenous, edible plant) to generate income in their community. They were rewarded with a **gold medal**.

**Category: Physics**



**Ra'ees Fredericks and Sean Manas** (Ebenezer Primary School, Paarl) researched the relationship between the colour of light and heat transfer. A **silver medal** was obtained.

**Category: Scientific Teaching Aids**



**Lionel Matthys** (Vredenburg Primary School) researched different ways to teach Grade 7 learners the Periodic Table of Elements. He was rewarded with a **silver medal**.

**Category: Medical Sciences**



**Ntombi Cindi** (Lentegeur Senior Secondary School, Mitchell's Plain) researched the different household solutions used in townships to test for early pregnancies. She received a **silver medal**.

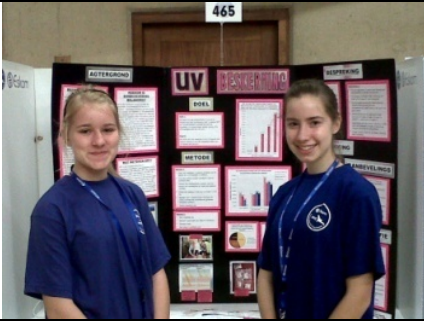
**Category: Health Care**



**Simone Huskisson and Olga Pretorius** (Rhenish Girls' High School, Stellenbosch) researched the effectiveness of different disinfectant wipes used to clean shopping trolleys. Their research was awarded with a **silver medal**.



**Mireeza Fredericks and Lucian Scheepers** (Esselenpark Secondary School, Worcester) researched the effectiveness of fig milk to cure skin warts. A **silver medal** was awarded.



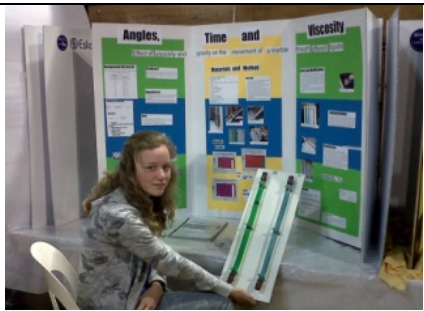
**Anje Kruger and Belinda Viljoen** (Bellville High School) researched the effectiveness of different UV factor sunscreen solutions. Their research was rewarded with a **silver medal**.

**Category: Social and Psychological Sciences**

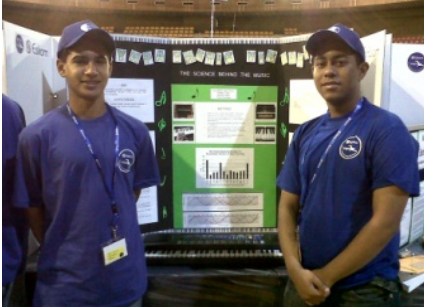


**Jaydee Sass and Nowall Siegelaar** (Atlantis Senior Secondary) researched the effectiveness of using toe prints for identification of children. A **silver medal** was their reward.

**Category: Physics**

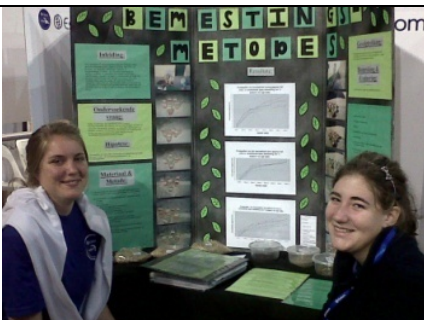


**Jessica Boyes** (Bridge House School, Franschhoek) researched the effect of viscosity and gravity on the movement of a marble through liquids. She obtained a **bronze medal**.



**Chad Carolissen and Matthew Meas** (The Settlers High School, Bellville) researched sympathetic vibrations of musical instruments with strings. They received a **bronze medal**.

**Category: Agricultural Sciences**



**Belinda Smit and Celia Brink** (Piketberg High School) researched the effectiveness of different fertiliser mixtures. A **bronze medal** was their reward.

**Category: Environmental Sciences and Ecology**



**Willtino Beukes and Romaine Nutt** (Niewoudt Primary School, Klaver) researched the interaction between farmers and government to remove alien plants in the Lower Olifant River valley. They got a **bronze medal** for their effort.