

South African International Science Fair 2013 - Results



Stellenbosch Regional EXPO 2013 - Results

Invited to International Science Fair Interviews

Environmental Management: study of human interaction with the environment



Daniel Nuttall
 Bridge House College
 Grade 9

Daniel received a **gold medal** for his project on growing plants in desert regions. He was also chosen as **Junior Category** winner.

Agricultural Sciences



Pieter Brand
 Paul Roos Gymnasium
 Grade 9

Pieter received a **silver medal** for his project on the effect of different types of fertilizer applications on the growth pattern of oats. He was also chosen as **Junior Category** winner.

Animal and Veterinary Sciences, including marine animals and Animal Ecology

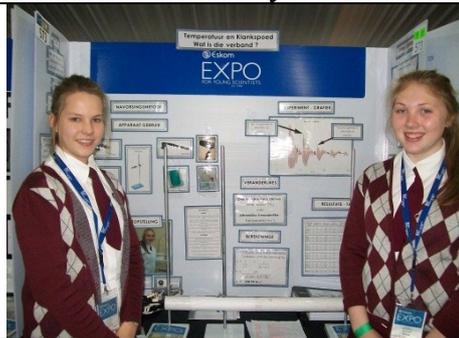


Natasha Henning
 Paarl Gymnasium
 Grade 9

Natasha received a **silver medal** for her project on the influence of diet on Sable horn growth.

Special Awards

Aeronautical Society of South Africa



Bianca Cromhout and Hannah Boyes
 Bloemhof Girls High School
 Grade 9

Bianca and Hannah received R1000 for their project on the relationship between temperature and the speed of sound.

CBI-Electric: low voltage (Mechanical Engineering award)



Alitia Grey and Juvan Nel
 Outeniqua High School
 Grade 11

Alitia and Juvan each received R2500 for their project on how differences in pressure in a closed system can be used to do work and generate electricity.

HJ van der Bijl Awards



Larissa Geldenhuys and Elanie van Schalkwyk

Bredasdorp High School
Grade 11

Larissa and Elanie received R2000 for their project in which they tested whether food that was dropped can be contamination free if picked up within 5 seconds (the Five Second Rule).

Parasitological Society Award



Carmen Malan

Bloemhof Girls High School
Grade 12

Carmen received a book prize for her project on the effectiveness of alternative dewormers.

Soil Science Society of South Africa – Best Junior Award



Pieter Brand

Paul Roos Gymnasium
Grade 9

Pieter received R1500 for his project on the effect of different types of fertilizer applications on the growth pattern of oats.

United States of America Friendship Book Prize



Matylida Odachowska

Bredasdorp High School
Grade 10

Matylida received a book prize for her project in which a saltwater battery was built and tested.

Gold Medal winners - 4

Energy: Alternative and renewable



Alitia Grey and Juvan Nel

Outeniqua High School
Grade 11

Alitia and Juvan received **gold medals** for their project on how differences in pressure in a closed system can be used to do work and generate electricity.

Environmental Management: study of human interaction with the environment



Daniel Nuttall
Bridge House College
Grade 9

Daniel received a **gold medal** for his project on growing plants in desert regions. He was also chosen as **Junior Category** winner.

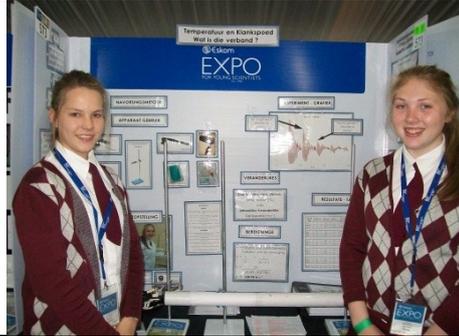
Health Care and Sport Science



Francois du Plessis
Paul Roos Gymnasium
Grade 9

Francois received a **gold medal** for his project on the effects of different liquids on human teeth.

Physics, Astronomy and Space Science



Bianca Cromhout and Hannah Boyes
Bloemhof Girls High School
Grade 9

Bianca and Hannah received **gold** for their project on the relationship between temperature and the speed of sound. They were also chosen as **Junior Category** winners.

Silver Medal winners - 11

Agricultural Sciences



Pieter Brand
Paul Roos Gymnasium
Grade 9

Pieter received a **silver medal** for his project on the effect of different types of fertilizer applications on the growth pattern of oats. He was also chosen as **Junior Category** winner.

Animal and Veterinary Sciences, including marine animals and Animal Ecology



Natasha Henning
Paarl Gymnasium
Grade 9

Natasha received a **silver medal** for her project on the influence of diet on Sable horn growth.

Energy: Alternative and renewable



Meghan Jansen van Rensburg and Werner Theron

Punt High School
Grade 12

Meghan and Werner received **silver medals** for their project on the use of algae as bio-fuel.

Energy efficiency and energy conservation



Janré Hanekom

Bellville High School
Grade 10

Janré received a **silver medal** for his project on how a middle class family can cost effectively save electricity.

Engineering: Chemical, Metallurgical and Mining



Allision Arendse

The Settlers High School
Grade 10

Allision received a **silver medal** for her project in which she designed and tested different purification systems.

Environmental Science: changes to the environment



Amber Clarke and Jade Stephens

Rhenish Girls High School
Grade 10

Amber and Jade received **silver medals** for their project which tested different materials as sorbent for oil spills and constructing a containment floating device.

Innovation and Technology including Recycling and Recycled materials



Angelique Olivier and Denise Coetzee

Bloemhof Girls High School
Grade 9

Angelique and Denise received **silver medals** for their project in which they investigated if it is possible to use readily available and recycled material to construct a solar water heater for less than R150.

Microbiology and Biochemistry



Larissa Geldenhuys and Elanie van Schalkwyk

Bredasdorp High School
Grade 11

Larissa and Elanie received **silver medals** for their project in which they tested whether food that was dropped can be contamination free if picked up within 5 seconds (the Five Second Rule).

Physics, Astronomy and Space Science



Matylda Odachowska

Bredasdorp High School
Grade 10

Matylda received a **silver medal** for her project in which a saltwater battery was built and tested.



Armand Lerm

Bellville High School
Grade 10

Armand received a **silver medal** for his project in which he investigated if the type of ammunition used by police officers is suitable and adequate for their job.

Social and Psychological Sciences



Desren Jacobs

Atlantis Senior Secondary School
Grade 11

Desren received a **silver medal** for his project in which he investigated if the colour of the pen used to mark scripts has an effect on the amount of errors detected by a teacher.

Bronze Medal winners - 6

Agricultural Sciences



Carmen Malan

Bloemhof Girls High School
Grade 12

Carmen received a **bronze medal** for her project on the effectiveness of alternative dewormers.

Food Sciences, Food Technology and Healthy Eating (Diet)



Louise Koen and Danièle Niehaus

Durbanville High School and Bloemhof Girls High School
Grade 9

Louise and Danièle received **bronze medals** for their project in which they investigated if copper bowls can optimise the volume of whipped egg white under certain circumstances.

Health Care and Sport Sciences



Leighlyn Solomons

New Orleans Senior Secondary School
Grade 9

Leighlyn received a **bronze medal** for her project which tested the alertness of participants after drinking coffee.



Charlene and Christine Ile

The Settlers High School
Grade 12 and 11

Charlene and Christine received **bronze medals** for their project which investigated the effectiveness of different water purification methods.

Innovation and Technology including Recycling and Recycled materials



Christiaan Marais

Paul Roos Gymnasium
Grade 9

Christiaan received a **bronze medal** for his innovative collapsible braailamp



Bulelani Nkupane and Nandipha Boyce

Masibambane High School
Grade 11

Bulelani and Nandipha received **bronze medals** for their innovative recycled school bag.

Finalists - 3

Agricultural Sciences



Wilna Pieterse en Déanie Brand

Bloemhof Girls High School

Grade 9

Wilna and Déanie investigated whether the Black Soldier Fly can break down different types of organic waste and thereby reduce the amount of waste that needs to be taken to landfills.

Chemistry



Anri van Wyk

Bellville High School

Grade 11

Anri investigated the oxygen concentration in different regions using the rust process as indicator.

Medical Sciences – Human Biology (anatomy, genetics and physiology)



Brindley Fortuin

Atlantis Senior Secondary School

Grade 11

Brindley carried out listening tests to determine if one ear of a human is more effective than the other.