

# SCIE X

## 2015

### Innovations for Sustainable Futures

#### ACADEMIC LECTURES BY VARIOUS SPECIALISTS AND ACADEMICS

BMW Engineering and Innovation

EDRO Robotics

Photovoltaic Technology

Solar Energy

Wind Energy

Heat Engine

Battery Technology

Algae and Biofuel

Chemical Production Technology

Technology usage in the Management of Wildlife Populations

Cape Nature

#### Landmark Foundation

Presentation by Dr. Bool Smuts, Director of Landmark Foundation. Interactive workshops – cages, satellite collars, and telemetry.

Rhino Conservation – 3D Printing of rhino horns and using drones in the field

#### FOCUS AFRICA

Self-built 3D Printer presented by pupils

Meyer Zall

White Sharks: Research between conservation and public perception



#### EXHIBITORS

**EDRO ROBOTICS (CAPE TOWN)**

Hands-on workshops; exhibition

**3D PRINTING Exhibitions and models; lectures; workshops**

## EXPERILAB

### SCIENCE SHOW @ 13H00!

### WORKSHOPS DURING SCIE X

#### “NEED FOR SPEED” RACE TRACK

All remote-controlled cars and 4x4 vehicles welcome to race for the crown!

Races in different categories and ages.

Come and watch young people race cars they built themselves for SCIE X.

Thursday 30 July	Friday 31 July
10h00 – 11h00: Grades 1 - 3	09h00 – 10h00: 4X4 and Truck Races
11h00 – 12h00: Grades 3- 4	10h00 – 11h00: Moms and Dads
12h00 – 13h00: Grades 5 - 7	11h00 – 12h00: Wind-propelled Cars
13h00 – 14h00: Mixed Prep Race	12h00 – 13h00: College Races



#### WETLAND TOURS

Come and enjoy an established wetland on the school campus used for instruction and practical sessions.

**Thursday:** 10h00; 12h00; 14h00

**Friday:** 10h00; 12h00

#### ATTRACTIONS AND OTHER ACTIVITIES

Practical hands-on sessions in laboratories  
Solar Car  
Blood Donations

#### INNOVATION IN SPORTS

Improve your driving and putting in golf by using technology.  
The use of technology in cycling – come and pedal!  
Technology employed in the Tour de France.

#### Advanced 3D Printing Technology

**1<sup>st</sup> affordable prosthetic arm designed at UCT and printed in Bloemfontein, SA**

**Gerrie Booysen – Director: Centre for Rapid Prototyping and Manufacturing Central University of Technology (CUT) BFN**

# COME AND ENJOY A WONDERFUL AND EXCITING

## SCIEX 2015!!!

**30 JULY: 09h00 – 16h00**

**31 JULY: 09h00 – 13h00**

**GLENWOOD HOUSE SCHOOL**

*GPS: S33.96932° E22.49219°*



SCIEX is a knowledge partnership between Glenwood House School and the Nelson Mandela Metropolitan University

More information available at 044-8714048 / 044 8015016 / 044 8015111



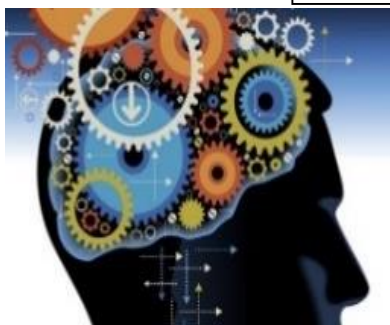
#SciEX2015

### COMPETITIONS

**Boerewors Competition!**

**Kebab Competition!**

**Registration essential!**



### HANDS-ON WORKSHOPS AND FUN

Electronics and Robotics for all ages!

Grades 1 – 7

ExperiLab Workshops

Landmark Foundation

Practical hands-on workshop.  
Satellite collars and telemetry; leopard cage active display.

Workshop

Building and Racing Wind-Propelled Cars  
R20 per pupil

**Thursday: 10h00; 11h30; 13h00; 14h30**

**Friday: 09h00; 10h00**



**CRAZY**



**Chemistry Experiments**

**Thursday: 10h00 and 10h40**

### ACADEMIC INDABA - Thursday 30 July 2015 @ 18h30

ESPECIALLY FOR DOCTORS, SPECIALISTS, MEDICAL REPS, PUPILS AND STUDENTS WANTING TO FURTHER STUDIES IN MEDICINE OR ENGINEERING STUDIES.

#### Theme of Presentation

“Changing lives using 3D Printing”

Gerrie Booysen, Director – Centre of Rapid Prototyping and Manufacturing, CUT, BFN

#### Theme of Academic Indaba

“The future of advanced 3D printing and other technological advances in the medical field”

Please e-mail [fanie.smit@glenwoodhouse.co.za](mailto:fanie.smit@glenwoodhouse.co.za) for more information.

### MODEL AIRCRAFT SHOW

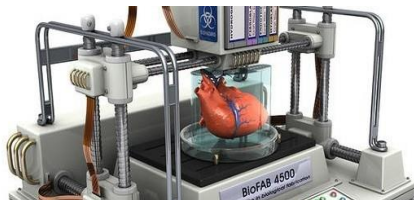
Exhibition of a variety of model aircraft  
Planes; Jets; Helicopters; Drones; Water  
Planes

### Simulator

Air Shows

**Thursday: 14h00 – 15h00**

**Friday: 10h00 – 11h00**



Come and experience the future ....