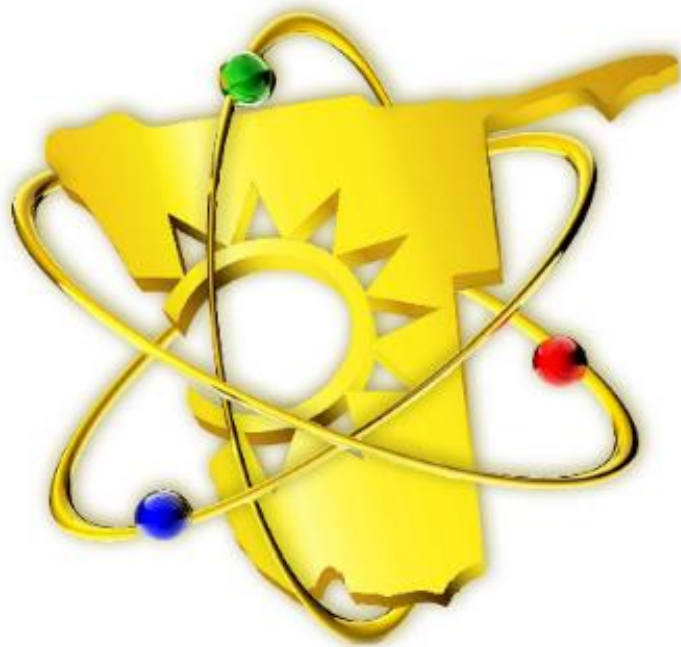


SCIENCE, TECHNOLOGY AND INNOVATION FESTIVAL PROGRAMME 2015



OPENING CEREMONY

Director of Ceremony:

08h00 - 09h00	Arrival of Guests
09h00 - 09h10	National Anthem/AU Anthem
09h10 - 09h20	Welcoming remarks by Dr Eino Mvula, CEO of the NCRST
09h20 - 09h30	Performance
09h30 - 09h45	Background and Overview of STI Festival by Prof Andre Du Pisani, Chairperson of the NCRST
09h45 - 09h55	Performance
09h55 - 10h25	Speakers: Shell Namibia, DebMarine, SAIS
10h25 - 10h45	Speaker: TIA
	Signing of MoU: TIA/NCRST
10h25 - 10h45	Keynote Address by Minister of Higher Education, Training, Research and Innovation
10h55 - 11h05	Vote of thanks By Dr. Dinna Shuuluka, GM RSTI C&S
11h05 - 11h10	National Anthem/AU Anthem
11h10 - 13h00	Refreshments

SCIENCE DEMONSTRATIONS & EXHIBITIONS

30 June – 02 July 2015:

09h00 - 17h00

Interactive Demonstrations: (Classrooms)

Classroom 1:	Physical Active Youth (PAY) Interactive Demonstration (Engaging youth through science in enquiry and critical thinking)
Classroom 2:	Forensic Lab - Ms Maryn Swart: Application of science in criminal Investigation
Classroom 3:	NIP - Demo by Johannes Klemens: Medical Laboratory Microscope
Classroom 4:	Fab Lab: 3D printer and scanner technology Demo

Science Demonstrations: Tents

Space 1:	SAASTA - Happy Vilakazi: Interactive Exhibition 5 x 5 Space
Space 2:	SAASTA - Mobile Planetarium: Hubert Mathebula 8 x 8 Space
UNAM: Stand 1:	Physic Department: Laboratory Demonstrations
UNAM: Stand 2:	Chemistry & Biochemistry Department: Demonstrations & Poster Presentations
UNAM: Stand 3:	Biological Department: Posters Presentations
UNAM: Stand 4:	Geological Department: Exhibition, Demonstration & Slide Shows
UNAM: Stand 5:	School of Computing: Demonstration on Programming – Ms Magderied Sladdert and Ms Maria Ntinda
NSI: Stand 6:	Demonstration
Nujoma School: Stand 7:	Demonstration
Polytechnic: Stand 8:	Demonstration on Solar House System Model 2 - Mr Shihepo
Polytechnic: Stand 9:	Demonstration on FM Radio Kit - Ms Ruth
Solna -	Solar System Telescope (outside)
NSI -	Calibration of Petrol pump (Outside)

SCIENCE MAKER WORKSHOPS

30 June 2015

09h0 - 10h45	UNAM: Dr E. Julies - Biological Science Department	Polytechnic of Namibia: School of Computing & informatics	Nelson Mandela Bay Science & Technology Centre: Simphiwe Madlanga	Living Maths Mr S. Sherman	College of the Arts 1	Fablab
	Amazing Water (Grade 4 +) Capacity: 40	Building a computer and network (Grade 4 +) Capacity: 40	Building of Telescopes (Grade 4 +) Capacity: 30	Mathemagics (Grade 4 +) Capacity: 40	Book Binding	3D pens
11h00 -12h45	NCRST	Polytechnic of Namibia: School of Computing & informatics	SANSA Hermanus Msizi Khatide	Gemological Institute of America: Education	College of the Arts 2	Geological Survey
	PLATO LAB	Mobile interaction design and gaming (Grade 4 +) Capacity: 40	Building of Satellites	Junior Gemology - Wonders of Germ Stones (Grade 8 +) Capacity = 30	Drawing in Perspective	Water Rocket (Grade 4 +) Capacity: 40
12H45-14H00	LUNCH					
14H00-15H45	UNAM: Dr E. Julies - Biological Science Department	Polytechnic of Namibia: Department of Mechanical and Marine Engineering Mr E. Stydom	Nelson Mandela Bay Science & Technology Centre	Living Maths Mr S. Sherman	College of the Arts 3	Fablab
	Amazing Water (Grade 4 +) Capacity: 40	Soda bottle water rockets (Grade 4 +) Capacity: 40 (only 1 and 2 July)	Building of Telescopes	Mathemagics (Grade 4 +) Capacity: 40	Repeat patterns in textile	3D pens
16H00-17H45	NCRST	Polytechnic of Namibia: School of Computing & informatics	SANSA Hermanus	Gemological Institute of America: Education	College of the Arts 4	Geological Survey Water Rocket (Grade 4 +) Capacity: 40
	PLATO LAB	Building a computer and network (Grade 4 +) Capacity: 40	Building of Satellites	Junior Gemology	Fashion Packaging	

Schedule for Competition and Challenges
Tuesday, 30 June 2015

Time	Item
10:00 - 10:45	Science Quiz (Primary School)
11:00 - 11:45	Science Quiz and Secondary)
12:00 - 12:45	Are you Smarter than a 5 th Grader (adults vs learners)
SCIENCE SLAM	
<ol style="list-style-type: none">1. GMO Food should be allowed on the Namibian Food Market OR2. Nuclear power is the better than the current power source in Namibia	
14:00 - 14:45	Xbox Kinect games (How does my body work?)
15:00 - 15:45	Sorting algorithms: http://csunplugged.org/sorting-algorithms
16:00 - 16:45	Binary numbers: http://csunplugged.org/binary-numbers

SYMPOSIUM

MONDAY, 30 JUNE 2015

08h00-08h30	Registration	
SESSION 1		
Facilitator:		
08h30-09h30	Innovation to improve health system in Namibia	Panel: (3 speakers) Health: Mr Marius K. Mutorwa
09h30-10h30	Q & A	
11h00-11h30	Tea/Coffee Break	
SESSION 2		
Facilitator:		
11h30-12h30	Value Addition of Namibia's fish and fisheries products	Ministry of Fisheries
12h30-13h15	Q & A	
13h15-14h15	Lunch	
Session 3		
Facilitator:		
14h15-15h30	Preserving and protection for the advancement of Namibia Society	Dr Petrina Auino
15h30-16h30	Panel Discussion	

SCIENCE MAKER WORKSHOPS

01 July 2015

09h0 - 10h45	UNAM: Dr E. Julies - Biological Science Department	Polytechnic of Namibia: School of Computing & informatics	Nelson Mandela Bay Science & Technology Centre: Simphiwe Madlanga	Living Maths Mr S. Sherman	College of the Arts 1	Fablab
	Amazing Water Grade 4 + Capacity: 40	Building a computer and network Grade 4 + Capacity: 40	Building of Telescopes (Grade 4 +) Capacity: 30	Mathemagics Grade 4 + Capacity: 40	Repeat Patterns in textile	3D pens
11h00 -12h45	NCRST	Polytechnic of Namibia: School of Computing & informatics	SANSA Hermanus Msizi Khatide	Gemological Institute of America: Education	College of the Arts 2	Geological Survey
	PLATO LAB	Mobile interaction design and gaming Grade 4 + Capacity: 40	Building of Satellites	Junior Gemology - Wonders of Germ Stones Grade 8 + Capacity = 30	Book Binding	Water Rocket Grade 4 + Capacity: 40
12H45-14H00	LUNCH					
14H00-15H45	UNAM: Dr E. Julies - Biological Science Department	Polytechnic of Namibia: Department of Mechanical and Marine Engineering Mr E. Stydom	Nelson Mandela Bay Science & Technology Centre	Living Maths Mr S. Sherman	College of the Arts 3	Fablab
	Amazing Water Grade 4 +) Capacity: 40	Soda bottle water rockets Grade 4 + Capacity: 40 (only 1 and 2 July)	Building of Telescopes	Mathemagics Grade 4 + Capacity: 40	Fashion packaging	3D pens
16H00-17H45	NCRST	Polytechnic of Namibia: School of Computing & informatics	SANSA Hermanus	Gemological Institute of America: Education	College of the Arts 4	Geological Survey
	PLATO LAB	Building a computer and network Grade 4 + Capacity: 40	Building of Satellites	Junior Gemology	Drawing in Perspective	Water Rocket Grade 4 + Capacity: 40

Competition/Challenges and Science Shows

Wednesday, 1 June 2015

Time	Item
10:00 - 10:45	Build the NCRST puzzle
11:00 - 11:45	Speed Tetris
12:00 - 12:45	Rapid Fire Technology Buzz (quiz game)
SCIENCE SLAM People should be fined for not recycling OR Wi-Fi should be provided by government for scientific gain	
14:00 - 14:45	Are you Smarter than a 5 th Grader (adults vs learners)
15:00 - 15:45	Speed Tetris
16:00 - 16:45	Typing Challenge: http://www.learninggamesforkids.com/featured-games/typing-challenge.html

Symposium

01 July 2015

08h00- 08h30	Registration	
SESSION 1		
08h30- 10h00	Social Science & Humanity research as a means to provide solutions and policy advice on current and emerging social challenges	Scientist
10h00 -11h00	Panel Discussion	
11h00- 11h30	Tea/Coffee Break	
SESSION 2		
11h30- 12h30	Achieving sustainable security supply of water through research and innovation	Remi Darmit, Ms Keighley Bell
12h30- 13h15	Questions and Answers	
13h15- 14h15	Lunch	
14h15- 15h30	Appropriate energy mix to meet Namibia	Scientist
15h30- 16h30	Panel Discussion	

Symposium

01 July 2015

08h00-08h30	Registration	
SESSION 1		
08h30-10h00	Topic to be inserted by Vincent: Biotechnology	Vincent
10h00-11h00	Panel Discussion	
11h00-11h30	Tea/Coffee Break	
SESSION 2		
11h30-12h30	Innovative solutions for the development of road, rail and air infrastructure towards making Namibia a logistic Hub	Speaker:
12h30- 13h15	Questions and Answers	
13h15- 14h15	Lunch	

SCIENCE MAKER WORKSHOPS

02 July 2015

09h0 - 10h45	UNAM: Dr E. Julies - Biological Science Department	Polytechnic of Namibia: School of Computing & informatics	Nelson Mandela Bay Science & Technology Centre: Simphiwe Madlanga	Living Maths Mr S. Sherman	College of the Arts 1	Fablab
	Amazing Water Grade 4 +) Capacity: 40	Building a computer and network Grade 4 + Capacity: 40	Building of Telescopes (Grade 4 +) Capacity: 30	Mathemagics Grade 4 + Capacity: 40	Fashion Packaging	3D pens
11h00 -12h45	NCRST	Polytechnic of Namibia: School of Computing & informatics	SANSA Hermanus Msizi Khatide	Gemological Institute of America: Education	College of the Arts 2	Geological Survey
	PLATO LAB	Mobile interaction design and gaming Grade 4 + Capacity: 40	Building of Satellites	Junior Gemology - Wonders of Germ Stones Grade 8 + Capacity = 30	Repeat patterns in textile	Water Rocket Grade 4 + Capacity: 40
12H45-14H00	LUNCH					
14H00-15H45	UNAM: Dr E. Julies - Biological Science Department	Polytechnic of Namibia: Department of Mechanical and Marine Engineering Mr E. Stydom	Nelson Mandela Bay Science & Technology Centre	Living Maths Mr S. Sherman	College of the Arts 3	Fablab
	Amazing Water Grade 4 +) Capacity: 40	Soda bottle water rockets Grade 4 + Capacity: 40 (only 1 and 2 July)	Building of Telescopes	Mathemagics Grade 4 + Capacity: 40	Drawing in Perspective	3D pens
16H00-17H45	NCRST	Polytechnic of Namibia: School of Computing & informatics	SANSA Hermanus	Gemological Institute of America: Education	College of the Arts 4	Geological Survey
	PLATO LAB	Building a computer and network Grade 4 + Capacity: 40	Building of Satellites	Junior Gemology	Book binding	Water Rocket Grade 4 + Capacity: 40

Competition/Challenges and Science Shows

Thursday, 2 July 2015

Time	Item
10:00 - 10:45	Matchit Definitions: http://www.learninggamesforkids.com/math_games/5th-grade-math/measurements-5th/matchit-measurements-5th.html
11:00 - 11:45	Astronomy Jigsaw: http://www.learninggamesforkids.com/space_games/astronomy-jigsaw.html
12:00 - 12:45	Xbox Kinect games (How does my body work?)
SCIENCE SLAM	
<ol style="list-style-type: none">1. The internet causes more harm than good (Technology) OR2. It is morally acceptable to experiment on animals for scientific purposes	
14:00 - 14:45	Mars Lander: http://www.learninggamesforkids.com/space_games/space_games_mars_lander.html
15:00 - 15:45	Science Word-o-Rama: http://www.learninggamesforkids.com/science_experiments/science-word-o-rama.html
16:00 - 16:45	Binary numbers: http://csunplugged.org/binary-numbers

Symposium

08h00-08h30	Registration	
SESSION 1		
08h30 - 10h00	Development of a reliable Geological map coverage through surveying and research to support mineral exploration	Ministry of Mines and Energy
10h00 - 11h00	Panel Discussion	
11h00 - 11h30	Tea/Coffee Break	
SESSION 2		
11h30 - 12h30	Developing Namibia's mineral beneficiation capacity to increase value addition to mineral resources	DeBeers/Namdeb
12h30 - 13h15	Questions and Answers	
13h15 - 14h15	Lunch	
SESSION 3		
14h15 - 15h30	Research and innovation solution to support a sustainable tourism	Environment & Tourism
15h30 - 16h30	Panel Discussion	

Symposium

2 July 2015

08h00 - 08h30	Registration	
SESSION 1		
08h30 - 10h00	Potential of developing the Manufacturing Sector	Homateni Kapewangolo/David Namalenga
10h00 - 11h00	Panel Discussion	
11h00 - 11h30	Tea/Coffee Break	
SESSION 2		
11h30 - 12h30	Can Namibia improve its rating in ICT availability through research and innovation	ICT
12h30 - 13h15	Questions and Answers	
13h15 - 14h15	Lunch	
SESSION 3		
14h15 - 15h30	Application of Space Science and Technology to find solutions for Socio-Economic development	Speaker:
15h30 - 16h30	Panel Discussion	

EXHIBITORS & SPONSORS

NCRST	Host
Shell Namibia	Gold Sponsor
SAIS	Gold Sponsor
DebMarine Namibia	Gold Sponsor
DBN	Bronze Sponsor
Trip Travel	Bronze Sponsor
Genmed CC	Non Sponsor
Namibia Veterinary Student Association	Non Sponsor
Green Enterprise Solutions	Non Sponsor
Polytechnic of Namibia	Partner
NamPower	Partner/Sponsor
Light Systems Namibia	Non Sponsor

CLOSING CEREMONY

18h00 - 18h30	Arrival of Guests
18h30 - 18h40	National Anthem/ AU Anthem
18h40 - 18h50	Welcoming remarks by Dr Eino Mvula, CEO of the NCRST
18h50 - 19h00	Performance
19h00 - 19h20	Keynote Address
19h20 - 20h00	Performance
20h00 - 20h10	Handover of Certificates: Sponsors
20h10 - 20h40	Handover of Certificates: Partners
20h40 - 20h50	Performance
20h50 - 21h10	Vote of thanks By Dr. Diina Shuuluka, GM RSTI C&S
21h10 - 21h20	National Anthem/ AU Anthem