

## **Final Report**

on

## **17<sup>th</sup> SAASTEC Conference** (16 – 19<sup>th</sup> November 2015)

Submitted to the

**Department of Science and Technology  
(DST)**

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Link to Delegate feedback (27 people responded)

<https://docs.google.com/forms/d/1Zl6KC6frZZ66ubDfJ6rj3Cl4jafi3klb7EXiQkQf6LU/viewanalytics>

## 1. CONFERENCE HOST / VENUE

In response to a call for proposals to host the 17<sup>th</sup> SAASTEC Conference – two proposals were submitted. One from Sci-Enza at the University of Pretoria and one from Lerato Molebatsi at the University of the North West (Mahikeng) Science Centre.

The SAASTEC Board unanimously decided (via email) that NWU (Mahikeng) would host the conference. Lerato Molebatsi was already on the SAASTEC Board so this needed no further action.

A local organizing committee was formed at NWU but was subsequently disbanded and Lerato Molebatsi worked on her own to get quotes for the functions and caterers (in conjunction with Ginny Stone). NWU indicated that they would like to meet with representatives of the SAASTEC Board. However, the Chair of the Board, David Kramer, replied that Lerato Molebatsi was indeed on the SAASTEC Board and this should suffice due to the travelling distances and costs involved.

The 17<sup>th</sup> SAASTEC Conference was held in Mafikeng from the 16<sup>th</sup> – 19<sup>th</sup> November 2015. Originally it was supposed to be held at the University of the North West (Mafikeng) but due to student unrest the campus was shut down for a period of time prior to the conference.

A few weeks before the conference was due to take place a decision, in conjunction with the SAASTEC Board and NWU, was made to move the conference to a different venue in Mafikeng – namely the Mmbatho Palms – to ensure that the conference would take place as scheduled.

This proved to be a good decision. Due to the fact that the University had been closed down for several weeks, the exams had been postponed and the venue that had originally been booked was needed for student exams during the time of the conference.

## 2. GENERAL

### 2.1 *Theme of Conference*

The theme for this conference was “Science Centres and the Science Engagement Framework”. This was divided into the three sub-themes – namely:

1. Science for the Public
2. Science Education support
3. Careers in Science.

An invitation and call for papers announcement was sent out to all relevant parties at the beginning of April 2015. The second announcement was sent in the middle of July. The third announcement was sent at the end of July, reminding everybody that abstracts were due and extending the abstract deadline to the middle of August. Thereafter various announcements were sent out as necessary to cover logistics of the conference (i.e. programme, the change of venue etc).

***The final conference announcement is attached as Appendix A.***

## 2.2 **Registration and Programme**

Early bird conference fees were R1 500 for SAASTEC Members and R2 000 for non-SAASTEC Members. This option was supposed to close on the 30<sup>th</sup> August 2015. However due to the fact that there was some uncertainty about whether DST/SAASTA was sponsoring 2 science centre delegates per centre with PSGI funding – very few people paid before the due date. Therefore the early bird rate was extended.

R3 000 was charged for commercial exhibitors. Some subsidies were given.

140 delegates registered for the conference. These people came from over 28 different places. A number of international delegates also attended including two delegates from Botswana, one from Kenya and two from Namibia.

Deadline for submission of abstracts was 31<sup>st</sup> July 2015. This was extended by 2 weeks. A total of 56 abstracts were received for oral presentations and 8 for posters.

The abstracts were compiled into their relevant sub-themes and the board had final say in the presentations.

55 talks were delivered over the period of 4 days. The conference presentations were generally of a high standard.

Four invited speakers gave very interesting and relevant talks:

- "Science & Cocktails: Bringing science, art and entertainment closer together". (Prof Konstantinos Zoubos, Dept of Physics, University of Pretoria).
- What's happening in science communication? 7 emerging challenges; 7 promising trends; 7 essential skills. (Marina Joubert, Centre for Research on Evaluation, Science & Technology (CREST) Stellenbosch University).
- Are there any other planets out there? (Prof Thebe Medupe, North-West University Mafikeng).
- Seeing the light: the SPECUP educational spectrophotometer (Patricia Forbes, Dept. Chemistry, University of Pretoria).

Although there were fewer talks than last year there were still parallel sessions.

There was also a 45 minute session after the AGM on Thursday 19<sup>th</sup> November presented by Mr Isaac Ramovha from the DST who updated the conference about the department's strategic development and direction.

Eight posters were exhibited. Sadly, due to the last minute change, the venue for the poster exhibition was not ideal but it was still adequate and posters were able to be viewed each tea time.

***The programme is attached as Appendix B.***

## 2.3 **Workshops**

In accordance with the proviso in the DST funding contract various workshops were held during the conference:

Date	Workshop submitted	By
17/09/15	Pimp your hoop (Hula hoops are made by each SC represented at the conference)	Ginny Stone
19/09/15	Bionics	Thami Mangena
19/09/15	Naledi discovery	Ian McKay
19/09/15	Robotics	ISET, Unisa
19/09/15	Hoop-off heats (Fun expo where by delegates do a quick demo using their hula hoops and explain the physics behind keeping it up – local students judge who is best and then the school gets to keep the hoops.)	Selected panel (includes local students)

These workshops all proved to be very successful and well attended. The hula hoop workshop was also enjoyed by the local school children who judged the winning entry. They enjoyed receiving hoops for their school (although it transpired that many of the SC's kept their hoops to use in their own science centres instead of donating them as intended).

#### 2.4 ***Exhibitions and Sponsors***

Although the location had changed there was still space for exhibitions BMS Education and Natal Department of Arts and Culture exhibited.

In addition to the very generous sponsorship of R250 000 from the Department of Science and Technology, the following organisations also participated.

- SAASTA sponsored the pre- and post-workshops at the conference.
- NRF kindly sponsored the attendance travel of the delegate from Kenya, Mr Kenneth Monjero.
- PERT Industrials Ltd. donated an electronics kit for the prize for the hula hoop competition worth over R2000. This was won by a delegate from HartRAO.
- Durban Natural Science Museum donated stationary and a magazine for the conference bags.
- LASEC donated bags. This donation was unfortunately only received after the order had been placed for special conference bags. Some of these were used for the excess late-registration delegates.

Conference bags were sourced from local providers. Sadly there was a misunderstanding as to the signage on the bags and in the end only the North-West University logo was represented on the bag.

#### 2.5 ***Catering***

The catering was originally supposed to have been done by various service providers thus empowering the community. However, due to the fact that the location of the conference had to be changed, the bulk of the conference catering had to be done by the Mmbatho Palms Hotel.

## 2.6 **Functions**

Date	Function	Venue
16/09/15	Ice-breaker	Mmbatho Palms Hotel
17/09/15	Braai	Gaabo-Motho Resort
18/09/15	Gala Dinner	Mmabatho Palms Hotel

Due to the fact that the functions were all held in public spaces it was difficult to arrange the distribution of alcoholic beverages. Cool drinks were however organized. (Normally a prior arrangement is made with the service provider and tickets are made by SAASTEC and distributed to delegates with their information packs.)

The ice-breaker finger supper proceeded without a hitch and was enjoyed by most delegates. This was not the case for the Gaabo-Motho resort braai function – and a last minute plan had to be made. Drinks for the function had to be purchased from a local bar on the NWU account. NWU was subsequently reimbursed by SAASTEC.

An arrangement was subsequently made with the hotel and tickets for the delegates were quickly produced for drinks for the Gala Dinner. The hotel also kindly sponsored wine on the tables as a goodwill gesture to compensate for the failure of their air-conditioning throughout the conference. This made the conference quite uncomfortable for delegates who had to tolerate overheated venues.

Part of the hula hoop competition was held at the braai function and excellent traditional dancers also entertained the delegates.

Due to the fact that the local DJ quoted an amount of R15 000 for 3 hours of music at the gala function a more cost effective alternative was decided on. A DJ was procured from Pretoria at just over a third of the price quoted by the local DJ.

## 2.7 **Venue, Accommodation & Transport**

### **Venue**

As mentioned, the venue of the conference was changed from the North West University to the Peermont Mmbatho Palms hotel. Whilst this incurred some extra last minute costs, this did not impact on the final conference cost very much because SAASTEC would have had to pay for the use of the University's venues, equipment, catering and other costs.

Sadly, the chiller unit in the conference venue burnt out the day before the conference started and despite all the efforts that the hotel made to accommodate this problem, the venue was rather warmer than was pleasant on two of the days. It must be said that the hotel provided extra water for the delegates, fans and even bought in small air conditioner units whilst they worked frantically to restore the air conditioning. In all other aspects the venue to satisfactory.

### **Accommodation**

A list of guest houses and hotels was provided on the conference website, with the Peermont Mmbatho Palms being recommended by Lerato Molebatsi as the preferred supplier. Delegates stayed in a variety of accommodation in Mafikeng.

### **Transport**

Due to challenges with coordinating transport to and from Mafikeng for delegates coming from many different places at different times (and the cost thereof due to the long distance), a decision was taken at a SAASTEC Board Meeting *not* to arrange transport for delegates to and from the conference. Delegates were asked

beforehand to arrange their own transport. This was clearly communicated to all delegates at every step of the conference communication. While some SAASTEC Board members had problems with this at the conference, no other delegates expressed dissatisfaction about the lack of transport to the SAASTEC secretariat or conference organizer prior to the event. A few people asked for lifts and these were organized.

Due to the fact that everybody had managed to get to the conference under their own steam, transport was not organized to the function at the Gaabo-Motho Resort as this was only 5km away from the conference venue. It was agreed that those delegates who needed transport would be assisted by delegates with transport. This solution was affective and no problems were encountered.

## 2.8 **Finances**

### **Credit**

DST generously gave SAASTEC a grant for R250 000 for the 17<sup>th</sup> SAASTEC Conference. This was highly appreciated and SAASTEC is indebted to the DST for their support.

The contract was signed and the funds were deposited in the SAASTEC account on the 30 July 2015.

R167 090 was generated in registration fees.

### **Debit**

An amount of R356 078 was spent against the conference budget.

The venue at the University had already been booked and paid for (R19 100) – it is hoped that the University will refund this money but so far nothing has been received.

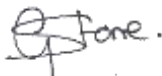
*The financial report is attached as Appendix C.*

## 3. **CONCLUSION**

The SAASTEC board is satisfied that a successful conference was held in Mafikeng, despite the last minute relocation. The board has formally expressed its thanks to Lerato Molebatsi for making all local arrangements under very difficult conditions.

SAASTEC expresses its gratitude to the Department of Science and Technology for its support of this conference.

All conference announcements, registration forms, accommodation information are also available on the SAASTEC website ([www.saastec.co.za](http://www.saastec.co.za)).



**Ginny Stone**  
**SAASTEC SECRETARY/TREASURER/LOC Member**

30 March 2016



# Third & Final Call for Papers

for the

## 17<sup>th</sup> Annual Conference

of the

## Southern African Association of Science and Technology Centres

to be held at the

## North-West University Mafikeng Science Centre

from the

## 16 - 19 November 2015

It all starts here®





It is with great pleasure that North-West University Mafikeng Science Centre invites you to attend the 17<sup>th</sup> Annual SAASTEC conference.

#### WHO SHOULD ATTEND?

Professionals from science and technology centres, national research facilities, innovation support centres, museums, planetariums, aquariums and art galleries as well as researchers, educators, teachers, government officials, administrators and policy makers involved with the public understanding of science, mathematics and technology (PUSET), curriculum developers and subject advisors. Sponsors, industry partners, stakeholders and other interested members of the community are also welcome.

#### CALL FOR PAPERS, POSTER PRESENTATIONS OR EXHIBITIONS

Delegates are invited to respond to this circular by submitting proposals for oral and/or poster presentations.

Commercial displays are also welcome. Please see the proposal forms attached herewith.

Please note that the deadline for the submission of proposals is **17 August 2015**.

#### ACCOMMODATION

A list of accommodation is available on:

<http://www.saaastec.co.za/conferences.htm>

#### CONFERENCE THEME & SUB-THEMES

The theme for this conference is "Science Centres and the Science Engagement Framework".

- Science for the Public
- Science Education support
- Careers in Science.

#### CONFERENCE OBJECTIVES

Papers will be invited in line with the following objectives:

- To share experiences on the theme of the conference and catalyse future exchange of knowledge among colleagues in the SADC countries and the world networks.
- To focus on the impact of science and technology centres in the regions they serve.
- To stimulate the development of science and technology centres and to present models that could enhance education and change in Southern Africa.
- To interact with the relevant regional and national government officials, partners from the private sector, academics and students from HEI's (Higher Education Institutions, e.g. universities), principals, teachers, interested stakeholders and members of the community.

#### VENUE, DATE AND REGISTRATION FEES

##### Venue:

The conference will be hosted and take place at the North-West University Mafikeng Science Centre

##### Date:

Tuesday 17 November to Friday 20 November 2015

##### Registration:

Evening of Monday 16 November 2015

##### Cost (early bird):

SAASTEC Members - R1500.00  
NON-SAASTEC Members - R2000.00

(After 1 September 2015 - R1600 for SAASTEC members and R2200 for non-members.)

Accompanying persons are welcome to attend the social functions at an additional cost.

Please indicate your interest on the reply form. Final cost will be provided at a later stage.

#### PAYMENT OF REGISTRATION FEES

All payments must be made into the SAASTEC account and the deposit slip together with the reply form must be emailed to the address indicated on the reply form. The reply form should preferably be sent electronically. Participants from South Africa deposit registration fees to Standard Bank Account, while delegates from all other countries can do a wire swift from any bank (SWIFT code provided).

##### Account name:

Southern African Association of Science and Technology Centres

Bank: Standard Bank

Current Account: 000 092 851

Branch Code: 00 02 05

Swift Code: SBZAJJ

**PLEASE NOTE:** Transport to the conference will NOT be provided.



**SAASTEC**  
Southern African Association of Science & Technology Centres  
**17<sup>th</sup> SAASTEC Conference**

**Hosted by the University of North West (Mafikeng)**

Held at Mmabatho Palms Hotel

16-19<sup>th</sup> November 2015

## Programme

### Sunday & Monday 16<sup>th</sup> November 2015

Time	Activity
09:00-16:00	Sunday – SAASTA Workshop on Nanotechnology – presented by MJ Schwartz, Education Officer, Unizulu Science Centre
09:00-14h00	Monday – SAASTA Workshop on Nanotechnology (cont.)

### Monday 16<sup>th</sup> November 2015

Time	Activity
16:00-17:30	Registration @ Mmabatho Palms Hotel
17:30-20:00	Icebreaker – “Pimp your Hoop” Workshop Followed by finger supper and networking opportunity (Leopard Room)

### Tuesday 17<sup>th</sup> November 2015

Time	Activity	Delegate	Mins
08:00-08:45	Registration at Conference Venue Morning Tea / Coffee		30
08:45-10:20	<b>Opening Session</b> (Chair : David Kramer) (Leopard Room)		
08:45-08:50	Welcome by SAASTEC	David Kramer, SAASTEC President	5
08:50-08:57	Welcome by North-West University (Mafikeng)	Prof Helen Drummond, Dean of Faculty of Agriculture, Science & Technology.	7
08:57-09:04	Welcome by Department of Science and Technology	Isaac Ramovha, Department of Science and Technology	7
09:04-09:09	Introduction of Keynote Speakers (David Kramer)		5
09:09-09:40	"Science & Cocktails: Bringing science, art and entertainment closer together".	Prof Konstantinos Zoubos, Dept of Physics, University of Pretoria	30
09:40-10:10	What's happening in science communication? 7 emerging challenges; 7 promising trends; 7 essential skills.	Marina Joubert Centre for Research on	30

		Evaluation, Science & Technology (CREST) Stellenbosch University	
10:10-10:20	Questions from the audience		10
10:20-10:35	Tea & Poster Session		
10:35-11:35	Session 1 (Chair : Shadrack Mkansi)		
10:35-10:50	Introducing the South African Repository for Astronomy Educational Material (SARAEM), Sefalana sa kitso ya dinaledi	Prof Thebe Medupe, North-West University Mafikeng	15
10:50-11:05	Reade, write, count, code - Africa Code Week 2015	Busi Maqubela Cape Town Science Centre	15
11:05-11:20	The NSTF's Share 'n Dare Programme	Fulufhelo Gelebe, Jansie Niehaus & Hendra van Zyl National Science & Technology Forum (NSTF)	15
11:20-11:35	<b>Panel Discussion, with questions from the audience</b>		15
11:35-12:35	Session 2 (Chair : Tebogo Habedi)		
11:35-11:50	Lessons learnt for successful Science Engagement	Rudi Horak, SciEnza	15
11:50-12:05	Developing SET Potential - SA's Got (SET) Talent!	David Kramer, Sci-Bono Discovery Centre	15
12:05-12:20	Report back: REDPOP Conference and 8th SCWS	Derek Fish, UniZulu	15
12:20-12:35	<b>Panel discussion, with questions from the audience</b>		15
12:35-13:30	Lunch		55
13:30-16:00	<b>Careers in Science</b> Session 3 (Chair : MJ Schwartz)		
13:30-13:45	It's a career path, not a walk in a park".	SD Dichabe & LY Molebatsi, NWU (Mafikeng) Science Centre	15
13:45-14:00	The impact of competitions on career choice: SAASTA coordinated AstroQuiz and the National Science Olympiad as examples.	B Kgwadi, S Mkansi & A Binneman, SAASTA	15
14:00-14:15	Directing Lives and Shaping Career Choices through Science Engagement Activities.	Akash Dusrath, Sci-Bono Discovery Centre	10
14:15-14:30	Adding an "A" in STEM=STEAM.	Silindile Mthembu, Unizulu Science Centre	15
14:30-14:45	What a journey to a science centre.	Joseph Taetsane, Moipone Academy - Tembisa	15
14:45-14:55	Does the visit to the science centre have any impact on learners performance and career choices?	Thato Majele & Naledi Seheri-Jele	10
14:55-15:00	Leg stretch		05
15:00-15:15	Optimizing teaching and learning techniques for science centre visitors with disabilities through use of technology. A case study of hard of hearing learners (deaf).	Zuleika Manzi & Phumezo Kwinana, FOSST	10
15:15-15:30	The power of light to promote STEM careers.	Buzani Khumalo, SAAO	15
15:30-15:45	Robots, rockets and reactions – effective partnerships with industry.	Michael Ellis, SAASTA	15
15:45-16:00	Role of ICT in popularizing career choices in science and technology for agricultural transformation in South Africa.	Ntsika Luzipho & Phumezo Kwinana, FOSST	10
16:00-16:30	<b>Questions to the panel</b>		30
16:30-16:45	<b>Tea/Coffee &amp; Poster Session</b>		15
16:45-17:40	<b>Continuation of Pimp Your Hoop Workshop : "Rock your Hoop" (the knockouts)</b>		55

18:00-21:00	Depart for Evening Function – Braai @ Gaabo-Motho Resort (own transport)	
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## Wednesday 18<sup>th</sup> November 2015

Time	Activity	Delegate	Mins
08:00-08:30	<b>Registration at Conference Venue</b>		30
08:30-09:30	Morning Tea/Coffee		
08:30-09:30	<b>Keynote Speakers</b> (Chair: Derek Fish)		
08:30-09:00	Are there any other planets out there?	Thebe Medupe, North-West University Mafikeng	30
09:00-09:30	Seeing the light: the SPECUP educational spectrophotometer	Patricia Forbes, Dept. Chem., Univ. of Pretoria	30
09:30-09:40	Questions to the Panel		10
09:40-10:55	<b>Science for the Public</b> Session 4 (Chair : Mondli Mnguni) (Leopard Room)		
09:40-09:55	Communicating science during public celebration days	Daniel Motsapi, ArcelorMittal Science Centre	15
09:55-10:10	The quality of science communication through the media 2014 to 2015.	Anton Binneman, SAASTA	15
10:10-10:25	Fact or Faith, Religion or Reality?	Derek Fish, UniZulu Science Centre	15
10:25-10:40	The impact of training presented to science centres as part of the science centre capacity building program.	Thandi Mtsweni and Shadrack Mkansi, SAASTA	15
10:40-10:55	<b>Questions to the Panel</b>		15
10:55-11:15	Tea & Poster Session		20
11:15-13:00	<b>Science for the Public (continued)</b> Session 5 (Chair : Anton Binneman) (Leopard Room)		
11:15-11:30	The possibility of a science centre in rural Taung, the place of the lion?	Miriam Tawane & Ian McKay, Evolutionary Studies Institute, Wits	15
11:30-11:45	The Story African Time: The sense of time before clocks	Mdumiseni Nxumalo, Unizulu Science Centre	15
11:45-12:00	Life's history at the cutting edge: education and outreach at the evolutionary studies institute	Ian McKay, Evolutionary Studies Institute, Wits	15
12:00-12:15	Science Communicator Autopsy	MJ Schwartz, Unizulu Science Centre	15
12:15-12:30	Various iterations of science awareness	Nemabaka Khumbudzo, Sebetsiwa Mathipa, HartRAO	15
12:30-12:40	Powerful vehicles for popularization of science	Eaton Shirindza, NYS Volunteer @ Sci-Enza	10
12:40-13:00	<b>Questions &amp; Panel Discussion</b>		20
13:00-14:00	Lunch		60
<b>PARALLEL SESSIONS</b>			
<b>Session A</b>			
14:00-15:10	<b>Science for the Public (continued)</b> Session 6A (Chair : Rudi Horak) (Leopard Room)		
14:00-14:15	Science for the public: Getting science to the township	Mosa Rametse JCP & Zoo; based @ Dorothy Nyembe Environmental Education Centre	15
14:15-14:30	Sparking the science fuse in the community	Manqoba Ndhlela, Njabulo Mpanza & Mthobisi Mhoni,	15

		ArcelorMittal Science Centre Newcastle	
14:30-14:45	A comparison between the impact of a mobile planetarium and sky viewing at a science festival.	Hubert Mathebula, Anton Binneman & Shadrack Mkansi, SAASTA	15
14:45-15:00	Exposure to the electronic future.	Mahlatshe Mthetwa, Sci-Enza	15
15:00-15:10	<b>Questions to the Panel</b>		10
<b>Session B</b>			
14:00-15:10	<b>Science for the Public (continued)</b> Session 6B (Chair : Daniel Motsapi) (Bogosing Room)		
14:00-14:15	Are museums and museum education becoming irrelevant?	Theshnie Naidoo, Durban Natural Science Museum	15
14:15-14:30	Taking the museum to the people	Sindi Nzama & Busi Gumede, Durban Natural Science Museum	15
14:30-14:45	Giving the Blind community access to Indigenous Knowledge (IK): Mobile Library for the Blind.	Tebogo Mohlakanae-Mafereka; Museums Marketing & Outreach Programmes (KZN Dept of Arts & Culture	15
14:45-15:00	To measure or not to measure scientific literacy?	Kogie Govender, Joburg City Parks	15
15:00-15:10	<b>Questions to the Panel</b>		10
15:10-15:30	Tea & Poster Session		20
15:30-16:15	<b>Working with Exhibitions (Plenary)</b> Session 7 (Chair : Derek Fish) (Leopard Room)		
15:30-15:45	Building an interactive Early Childhood Development extension.	Stuart Hopwood, SciBono Discovery Centre	15
15:45-16:00	Keeping exhibits in check	Myself Mngomezulu, SciBono Discovery Centre	15
16:00-16:10	<b>Questions to the Panel</b>		10
16:20-17:30	<b>Workshops - delegates to choose from:</b> Bionics : Learning from Nature (Thami Mangena, Sci-Bono Discovery Centre) Naledi Discovery : Human Evolution (Ian McKay, Wits) Robotics : Patricia Gous (I-SET)		70
19:00-22:30	<b>Evening Dinner &amp; Dancing @ Mmabatho Palms</b> (with music from the 4 Seasons Mobile Disco)		

## Thursday 19<sup>th</sup> November 2015

Time	Activity	Delegate	Mins
<b>PARALLEL SESSIONS</b>			
<b>Session A</b>			
08:30-10:00	<b>Science Education Support</b> Session 8A (Chair : Puleng Tsie) (Leopard Room)		
08:30-08:45	The pan-African Solar Eclipse of 2016	Claire Flanagan, Moonshadow Mix	15
08:45-09:00	Teacher development support in natural science education: Advancing Science literacy through astronomy	Sivuyile Manxoyi & Buzani Khumalo, South African Astronomical Observatory	15
09:00-09:15	Cultivating an Interest in Mathematics and Science; the Botswana International University of Science and Technology's Experience	Haniso Motlhabane BIUST, Botswana	15
09:15-09:30	Our maths mind set doesn't add up	Diloshni Thambaran, Unizulu Science Centre	15
09:30-09:45	Kenyan Science Centre Capacity Building through intensive Tour to Centres in SA, USA & Canada/ASTC conference.	Ken Monjero, E. Kimani, P. Wangare, R. Gitonga Kenya Agricultural & Livestock Res. Org. Kenya	15

09:45-10:00	<b>Questions to the Panel</b>		15
<b>Session B</b>			
08:30-10:00	<b>Science Education Support</b> Session 8B (Chair : Thami Mphokela) (Bogosing Room)		
08:30-08:45	Ways to engage and inspire! Understanding the gift of science	Sanda Soqinase, Arcelormittal Science Centre (Sebokeng)	15
08:45-09:00	Academic pressure; too much to handle	Onalenna Ernest Mosiane, Arcelormittal Science Centre (Sebokeng)	15
09:00-09:15	Training the trainers, how valuable is it for educators?	Daniel Motsapi, Arcelormittal Science Centre	15
09:15-09:30	The role of science centres in schools.	Joseph Sibiyi Mondi Science, Career Guidance & FET Skills Centre	15
09:30-09:45	From acquisition-oriented to participation-oriented learning approach: effect of technology-enhanced science experiments to students' performance	P.M. Kwinana, FOSST Discovery Centre	15
09:45-10:00	<b>Questions to the Panel</b>		15
10:00-10:30	Tea & Poster Session		30
10:30-11:30	<b>SAASTEC AGM</b> (Leopard Room)	All	60
11:30-12:00	Framework for promotion of excellence in a national network of science centres: Policy background and process forward following the pilot project"	Isaac Ramovha, DST Anton Binneman, SAASTA	30
12:00-12:15	<b>Questions</b>		15
12:15-13:00	<b>Hula Hoop-Off Heats</b> With a judge panel of learners (who are included for lunch)		45
13:00-14:00	Lunch		60
<b>PARALLEL SESSIONS</b>			
<b>Session A</b>			
14:10-14:55	<b>Science Education Support (continued)</b> Session 9A (Chair : Ulrich Oberprieler) (Leopard Room)		
14:00-14:15	The Use of Animals to Support Science Education	Armstrong Mashakeni, NZG	15
14:15-14:25	Community Garden: Re Ja Mmoho (We Eat Together)	Dikeledi Khutsoane & Naledi Nalane, Sci-Enza	10
14:25-14:35	Innovation and technology using recycling and recycled materials	Chrisencia Moatshe, Mothibistad Science Centre	10
14:35-14:45	Use of Graphic Calculators in rural-based schools to enhance interactive teaching and learning: Case study in the Fort Beaufort District science schools, Eastern Cape	Viwe Kwinana S Xanga, & P Kwinana, FOSST	10
14:45-14:55	<b>Questions to the Panel</b>		10
<b>Session B</b>			
14:10-14:55	<b>Science Education Support (continued)</b> Session 9B (Chair : Lerato Molebatsi) (Bogosing Room)		
14:00-14:10	Making science fun: Inspiring foundation phase learners to follow STEM careers through the performance of fun experiments	Yolanda Jali & Phumezo Kwinana, FOSST	10
14:10-14:20	Crossing the Digital Divide: E-Learning as a vehicle to mitigate digital divide effects in rural-based science schools of the Eastern Cape	Phumzile Nomnga & Phumezo Kwinana, FOSST	10

14:20-14:30	From traditional laboratory to virtual space: Shaping the days of our lives to enhance laboratory experiment	Mncedi Rani & Phumezo Kwinana, FOSST	10
14:30-14:40	Enhancing understanding of scientific concepts for STEM FET learners: The role of informal education by Science Centres.	Nwabisa Takata, FOSST	10
14:40-14:55	<b>Questions to the Panel</b>		15
15:00-15:15	<b>Conference Wrap-up</b> (David Kramer / Mondli Mnguni) (Leopard Room)		
15:15	Tea /Coffee (Posters Down)		
<b>People who are not staying for SAASTA workshop on Friday are free to leave. FREE EVENING</b>			

### Friday 20<sup>th</sup> November 2015

Time	Post Conference Workshop (SAASTA)
	Financial Management Workshop

**Travel home safely.**

Financial Report for 17<sup>th</sup> SAASTEC Conference – Mafikeng

		Budget	Actual
<b>INCOME</b>			
Grant from DST		R 250 000	R 250 000
Income from Registrations		R 180 000	R 167 590
<b>TOTAL INCOME</b>		<b>R 430 000</b>	<b>R 417 590</b>
<b>EXPENDITURE</b>			
	R/unit	Budget	Actual
<b>Conference venue</b>			
Hiring of plenary venue (3 days @ R8000)		R 19 100	R 19 100
Mmatho Palms Conference Package for 3 days includes daily, lunches, 3 x teas, 3 x water, pads Icebreaker function and Gala dinner & accommodation for visiting speakers	140 pax		R 219 970
<b>Refreshments</b>			
<b>Printing and Artwork</b>			
Book of Abstracts	140 x R133	R 19 500	R 18 620
Other printing		R 0	R 0
<b>Conference accessories</b>			
Notepads, pens (try to sponsor)		R 0	R 0
Conference bags,	120 @ R160	R 19 200	R 19 200
Badges/keyrings for bags, laminating, etc		R 672	R 501
Poster Boards		R 374	R 374
Photographer		R 0	R 0
Branded Mugs	140 x ~R52	R 7 250	R 7 250
<b>Conference Organising</b>			
Organising conference (G Stone)		R 24 000	R 24 000
Accommodation			R 2 835
<b>Delegate transport</b>			
Transport to Braai & stargazing		R 0	
<b>Functions (including drinks)</b>			
Icebreaker (included above)			
Function - Gaabo-Motho Resort	140 x R190	R 26 600	R 29 814
Gala Dinner - Wednesday (included above)			
Entertainment DJ - Gala Dinner		R 5 319	R 5 319
Traditional Dancers - Gaabo-Motho		R 3 095	R 3 095
<b>Workshops</b>			
Invited Plenary speakers (transport & tolls)	3000 x 2	R 6 000	R 6 000
Gifts for speakers x 4		R 2 000	R 775
Hula Workshops		R10,000	R 3 239
Prizes for best talk / poster		R 4 000	R 0
<b>TOTAL EXPENDITURE</b>		<b>R 137 110</b>	<b>R 356 078</b>
<b>SURPLUS</b>		<b>R 292 890</b>	<b>R 61 512</b>