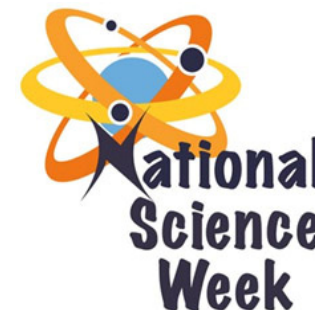


South African Astronomical Observatory (SAAO)

Province: Western Cape



Project implementation plan for Focus Week (1 - 8 August 2009)

Cape Town Site

1. Learners' Program

Date	Venue	Description of activities	Target Audience	Enquiries	Bookings Required?
3 – 7 August 2009	SAAO Cape Town	09:30 Science Show 10:00 Facility tour and Astronomy workshop (split group) 11:00 IKS presentation 11:30 Role Models 12:00 Lunch and informal interaction with role models	Grade 10-11	Sivuyile	Yes

Descriptions of activities:

09:30 Science Show: The show will entail astronomy-related demonstrations. Very basic equipment will be used to demonstrate some of the biggest concepts in astronomy and physics. There will also be high tech demonstrations using astronomy related software (the school will then be given a free copy of the software)

10:00 Facility Tour (in parallel with workshops – split group): A tour of the site, which also involves history of astronomy in South Africa, a visit to the museum, technical workshops and viewing through the Solar Telescope.

10:00 Workshops (in parallel with facility tour – split group): Workshops will be based on astronomy and space science. They will be built on what learners have seen on the Earth and Beyond theme and will seek to extend and elaborate this through hands-on demonstrations of the general principles of physics involved.

11:00 Presentation on African Astronomy: This will be a talk on the contribution of African people to Astronomy. Also some indigenous African stories

11:30 Role Models: Learners will be addressed by some of our most inspiring astronomers who will talk about what they do and how they got to where they are. This is also meant to be a motivational session.

2. Educators Program

Educators workshops will be held for Grade 10-12 teachers in Cape Town every day at 14:00 focusing on various tools for teaching astronomy and using astronomy to teach maths and science. Focus will be on innovative use of software for teaching. On Saturday the 8th August there will be a larger educators workshop which will focus on IKS and astronomy software, and the production of an African planisphere. Educators will be invited that evening to view the sky through telescopes.

Date	Venue	Description of activities	Target Audience	Enquiries	Bookings Required?
3 – 7 August 2009	SAAO Cape Town	14:00 Educator Workshop on Tools for Teaching Astronomy (focus on innovative useful software)	GET and FET Educators	Sivuyile, Veronique	Yes
8 August 2009	SAAO Cape Town	10:00 IKS Presentation and discussion 10:30 Talk by astronomer; 11:00 Workshop on developing African planisphere 12:00 Lunch 13:00 Discussion 20:00 Lecture and night sky viewing	Grade 10 – 12 Educators	Sivuyile	Yes

3. Public Program

There will be a star gazing evening on 8th August 2009 at 20:00. Attendees will receive a talk on astronomy, a tour of the site and will have an opportunity to view through our telescopes.

Date	Venue	Description of activities	Target Audience	Enquiries	Bookings Required?
8 August 2009	SAAO Cape Town	SAAO Open Night	Public	Sivuyile, Thembela	No

Sutherland Site

1. Learners' Programme

Learners will be transported to Sutherland from all over the province – 30 per day x 3 days for the nearby towns of Fraserburg, Williston, Calvinia and Sutherland and 100 per day x 2 days for learners from far away. The learners from far away will stay over for 2 nights in Sutherland due to a full day needed to travel. The basic programme would look as follows:

Date	Venue	Description of activities	Target Audience	Enquiries	Bookings Required?
3 - 7 August 2009	SAAO Sutherland	09:00 Science Show 10:00 IKS Presentation 10:30 Astronomy Workshop and tour (split group) 12:00 Lunch 12:30 Role Models	Grade 10-11	Marilize	Yes
4, 6 August 2009	SAAO Sutherland	Night sky viewing through telescopes	Grade 10-11	Marilize	Yes

Descriptions of activities:

09:00 Science Show: The show will entail astronomy-related demonstrations. Very basic equipment will be used to demonstrate some of the biggest concepts in astronomy and physics. There will also be high tech demonstrations using astronomy related software (the school will then be given a free copy of the software)

10:00 Facility Tour (in parallel with workshops – split group): The tour will consist of a guided tour of the exhibits in the visitor centre which explain various concepts used in astronomy such as spectroscopy, Doppler effect, electromagnetic spectrum, light years and supernovae to mention a few. Then the learners will have a tour of the SALT facility where they will get an idea of how real research telescopes are operated

10:00 Workshops (in parallel with facility tour – split group): Workshops will be based on astronomy and space science. They will be built on what learners have seen on the Earth and Beyond theme and will seek to extend and elaborate this through hands-on demonstrations of the general principles of physics involved.

11:00 IKS Presentation: This will be a talk on the contribution of African people to Astronomy. Also some indigenous African stories

11:30 Role Models: Learners will be addressed by some of our most inspiring astronomers and engineers who will talk about what they do and how they got to where they are. This is also meant to be a motivational session.

2. Educators Program

During lunchtime meetings, all educators attending the NSW activities will be provided with resources for their classroom and a brief introduction on their usage. The materials will be related to the activities of the day.

3. Public Program

There will be a “star party” and an astronomy talk with telescope viewing in Sutherland on the evening of the 5th August. Also every day during that week there will be an open free tour for the public (1 tour for up to 20 people per weekday plus free shuttling up to the observatory for up to 10 members of the Sutherland community per day).

Date	Venue	Description of activities	Target Audience	Enquiries	Bookings Required?
5 August 2009	Kamamas, Main Road, Sutherland	Night sky viewing through telescopes for public and GET learners	Public	Marilize, Willem	Yes

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