



# SAWIA

SOUTHERN AFRICAN WOMEN IN AVIATION & AEROSPACE INDUSTRY

INFORM . CONNECT . MOTIVATE . INSPIRE

*Changing lives - one person at a time!*



IMAGE SOURCE: <http://newspaper11/boeing>

2011/2012

ANNUAL REPORT



## **GAS PILLARS IN THE EAGLE NEBULA (M16): PILLARS OF CREATION IN A STAR- FORMING REGION.**

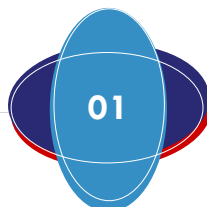
These columns that resemble stalagmites protruding from the floor of a cavern are in fact cool interstellar hydrogen gas and dust that act as incubators for new stars. Inside them and on their surface astronomers have found knots or globules of denser gas. These are called EGCs (acronym for "Evaporating Gaseous Globules"). Inside at least some of the EGCs stars being formed. Undersea coral? Enchanted castles? Space serpents? These eerie, dark pillar-like structures are actually columns of cool interstellar hydrogen gas and dust that are also incubators for new stars. The pillars protrude from the interior wall of a dark molecular cloud like stalagmites from the floor of a cavern.

**IMAGE CREDIT:** NASA / Jeff Hester and Paul Scowen (Arizona State University)

**IMAGE SOURCE:** <http://hubblesite.org/gallery/album/pr1995044a/>

# CONTENTS

- 02 A MESSAGE FROM THE FOUNDER:**  
REFILWE LEDWABA
- 03 A MESSAGE FROM THE TEAM LEADER:**  
LAURA ILUNGA
- 05 OVERVIEW**
- 07 NETWORKING & EVENTS**
  - 07** SAWIA/WAI SAN FRANCISCO BAY AREA AVIATION MOMENTS (RHENO, ST HELENA, SAN FRANCISCO & NEW YORK)
  - 08** ADAMS COLLEGE LEGACY DINNER
  - 09** INTERNATIONAL FRIENDS OF SAWIA VISIT TO SOUTH AFRICA
- 11 KEY PROJECTS & COMMUNITY OUTREACH**
  - 11** THE DURBAN AIR SHOW
  - 12** WIPHOLD CAREER WORKSHOPS
  - 14** THE GRAND RAND AIR SHOW
  - 16** SOWETO AVIATION DAY
  - 18** ADOPT-A-PILOT PROGRAMME
  - 19** ADAMS COLLEGE VISIT & CAREER TALK
  - 20** KZN YOUTH AVIATION DAY
- 23 SAWIA EDUCATION INITIATIVES**
  - 23** GIRL FLY PROGRAMME IN AFRICA
  - 25** UNICEF/UWESO CONSULTING: TECHNO GIRLS PROGRAMME
- 27 SCHOLARSHIPS**
  - 27** KEEP FLYING SCHOLARSHIP INTERNATIONAL
  - 27** SAWIA SCHOLARSHIPS
  - 27** 2011 RECIPIENT: MICHAELA MEISWINKEL
  - 27** 2012 RECIPIENTS: MAPHUTI NDALA & LUMKA MSIBI
- 29 SAWIA IN THE NEWS**
  - 29** ABOUTIME MAGAZINE
  - 30** AVIATRIX AEROGRAM MAGAZINE
  - 31** AFRICAN PILOT MAGAZINE
  - 31** COSMOPOLITAN (SOUTH AFRICA) MAGAZINE
- ON THE RADIO & TELEVISION**
  - 32** METRO FM
  - 32** CAPRICORN FM
  - 32** SABC RADIO FM
  - 32** SABC AFRICA: INTERNATIONAL NEWS
- AT CONFERENCES, EVENTS & PANEL DISCUSSIONS**
  - 33** THE WITNESS & SANLAM WOMEN'S MONTH BREAKFAST, KWAZULU NATAL 2011
  - 34** WOMEN AVIATORS IN AFRICA CONFERENCE, KENYA 2009
  - 34** THE MUSEUM OF FLIGHT WOMEN AVIATORS FROM AROUND THE GLOBE PANEL DISCUSSION, USA 2012
  - 35** THE MUSEUM OF FLIGHT, SEATTLE/USA
- 37 SAWIA MEMBERS IN THE NEWS**
  - 37** CAPTAIN LAURA ILUNGA: SANDF AVIATRIX PIONEER
  - 38** CAPTAIN REFILWE LEDWABA: SAPS AVIATRIX PIONEER
  - 39** KATE ESTERHUYSE: DIRECTOR OF TRAINING & CHIEF FLYING INSTRUCTOR @ STARLITE AVIATION GROUP
  - 40** MARGARET VILJOEN: INSPIRATIONAL AVIATRIX LEADER
  - 41** SIBONGILE SAMBO: AVIATION PIONEER & ENTREPRENEUR
- 43 SPONSOR PROFILES: COMPANIES, ORGANISATIONS & INDIVIDUALS**
  - 43** 1 TIME AIRLINE
  - 44** FLIGHT TRAINING SERVICES
  - 45** K5 AVIATION
  - 45** SAWIA GRATITUDE & THANKS
- 47 PARTNERSHIPS**
  - 47** THE SOUTH AFRICAN CIVIL AVIATION AUTHORITY
  - 48** KEEP FLYING SCHOLARSHIP TEAM, USA
  - 48** KUTLWANONG: CENTRE FOR MATHS, SCIENCE & TECHNOLOGY, JOHANNESBURG
  - 49** ADAMS COLLEGE, KWAZULU NATAL
- 51 TEAM PROFILES**
- 57 2011 FINANCIAL REPORT**
  - 57** STATEMENT OF ACTIVITIES
  - 58** BALANCE SHEET, CASH FLOW & INCOME STATEMENT
- 60 FUTURE DEVELOPMENTS**
  - 60** 2012 CALENDAR OF EVENTS
  - 60** GIRL FLY PROGRAMME IN AFRICA ANNUAL AVIATION CAMP
  - 61** ANNUAL YOUTH AVIATION DAY, ANNUAL WOMEN'S DAY FUNDRAISING, MAGAZINE, NEWSLETTER & CASE STUDY





# A MESSAGE FROM THE FOUNDER

REFILWE LEDWABA



WELCOME TO THE INAUGURAL SAWIA ANNUAL REPORT. 2011 was a remarkable year for SAWIA! I am delighted to witness the successful growth of the organisation and I know the SAWIA team share my sentiments. Amid the immense challenges and cycles that every non-profit organisation (NPO) endures, we continue to deliver strong performance, exceed our expectations and the promises made - for a fledgling NPO, this has been a huge accomplishment.

I have watched SAWIA evolve from a humble voluntary association to a credible NPO (registered with the Department of Social Services - Reg # NPO 089-579) making a significant contribution to South Africa - we are changing lives - one person at a time.

Though formally established in 2009 and registered as an NPO in 2011, SAWIA was conceived in 2007 when we recognised the need for an organisation to represent Southern African women and girls in aviation and aerospace. We faced many challenges and implemented programmes that failed - this learning experience was instrumental in forming the successful backbone of SAWIA today. I would like to express my gratitude to the founding, visionary members of SAWIA: Puleng Cadribo, who's early contribution played a major role in the success of SAWIA; Gary Watson (Financial Director - Board of Advisors); Sefoka Peter Kekana (Committee member) and Lerato Ledwaba (Education portfolio).

One of my favourite SAWIA success stories has been the scholarships granted through our partnership with the Keep Flying Scholarship (KFS) International Team. This partnership resulted in the awarding of our first scholarship to Ms. Michaela Meiswinkel to complete her Night Rating. Michaela's story was featured in ABOUTIME magazine (1Time Airline's official magazine) and other publications. Subsequently, we have awarded two more scholarships: one was awarded to Ms. Mphuti Ndala for her Night Rating and Commercial Pilot License examinations and the other to Ms. Lumka Msibi to attend a Space Programme in Australia. We have successfully raised more funding to award 2012/2013 scholarships. My heartfelt thanks to the KFS International Team (based in the USA) and their sponsors.

In 2011, SAWIA introduced Adopt-a-Pilot Programme, expanded our existing projects and attended many outreach events in our SAWIA quest to inform, motivate, connect and inspire - these projects, community outreach programmes and events are highlighted in this, our first inspirational, annual report.

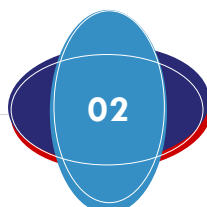
SAWIA has undergone organisational change in the management, executive and committee structures since its inception. Since 2007, I held the position of Team Leader and in early 2012, I stepped down to focus on fundraising, developing the scholarships and working with the Board to put systems in place, ensuring SAWIA could continue to operate should any of us step down. I congratulate Laura Ilunga who has been appointed the new SAWIA Team Leader responsible for operations.

2012 started with a bang! We hosted International friends of SAWIA from the USA (Women in Aviation International San Francisco Bay area); we held our first major Aviation Day in Soweto where 250 students attended; we held the first Youth Aviation Day in KZN on the 16th June in honour of Youth Day; have established new scholarships and Girl Fly Programme in Africa has exciting developments ahead including an annual Aviation Camp. SAWIA's solid strategic planning, position in the market and our talented, energetic, committed team gives us confidence that we will continue to make a meaningful contribution to the future of female aviators in South Africa.

Lastly, I would like to express my sincere gratitude: to the SAWIA team; to our many, selfless volunteers - for not only buying into the vision, but ensuring it has become a reality; the Board of Advisors for their continued support; the Companies, Organisations and individuals mentioned in this report who have all donated, volunteered their time and contributed to the success of SAWIA.

PINK SKIES!

*Refilwe Ledwaba*



# A MESSAGE FROM THE TEAM LEADER

LAURA ILUNGA



SAWIA ONCE AGAIN SHOWED GREAT GROWTH IN 2011. From jet setting around the country to create exposure for careers in the aviation and aerospace industries, to awarding our first type rating scholarship, SAWIA keeps going and growing. The wealth of knowledge, support and mentorship that our team members spread across the country shows the dedication that we have towards our vision to make aviation a viable and accessible career choice for women.

Our involvement throughout the year stretched from partnering with non-profit organisations, to taking part in government initiatives, as well as teaming up with international female aviators.

In 2012 we have two aviation awareness days planned. Our aviation days are about bringing aviation role players from around the country to one venue with hundreds of high school learners to soak up all the information available. We partnered with the Kutlwanong centre for Maths, Science and Technology for our Soweto Aviation Day which saw close to 200 Maths and Science learners being exposed to careers that they would normally not come close to. We were also joined by a few women from the Women in Aviation International - San Francisco Bay Area Chapter (WAI-SFBA), as well as a French aviatrix who travelled all the way to be part of our initiative. Our next Aviation Day will be held at the legendary Adams College in Durban on national Youth Day June 16th, where we have more than doubled the numbers to 400 learners.

SAWIA has also started using Air Shows to bring the fun factor into our strategy. In 2012 we have committed ourselves to sponsoring some learners to a fun day out with SAWIA members at various Air Shows in Gauteng and KwaZulu-Natal. This is a time to informally mentor and interact with young aspiring aviators on a more social level.

Our awarded scholarships will also more than double this year, as we add engineering degrees to our already established pilot scholarships, and assist individuals as ad-hoc requests come in.

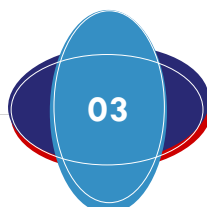
I would like to close off by expressing my sincere thanks and appreciation to everyone who has supported SAWIA in any way. You know who you are. Whether you donated R 100.00 or a seat in an aircraft, or volunteered to help someone with their exams, we appreciate every small or big gesture. As a non-profit organisation we rely heavily on kind gestures and the support that we have received in the last year has been superb. To my SAWIA team, you are awesome. Considering that we all have full-time jobs and still manage to keep SAWIA going is astonishing to me. No words could express the gratitude and respect that I have for all of you. You continue to inspire me to do better and be better.

Lastly to Refilwe, who has been a great mentor, friend and colleague. Thank you for giving so much of yourself towards our beloved industry. Your determination and exemplary standards will forever be admired by future generations.

Let us continue to make a difference with each stroke of our pink paintbrushes.

PINK SKIES!

*Laura Ilunga*





**WIZZAIR.COM/PINK SKIES!**

IMAGE SOURCE: [http://aviationoverview.files.wordpress.com/2011/02/wizz-air-pink\\_skies.jpg](http://aviationoverview.files.wordpress.com/2011/02/wizz-air-pink_skies.jpg)

# OVERVIEW

**“Gender and women’s empowerment is at the core of what we need to do in the field of development. Gender equality is also smart economics. Whether it is the question of employment, opportunity, pay, or access to finance, there is a tremendous amount of work to do to level the playing field for women.”** ROBERT B. ZOELICK, PRESIDENT, WORLD BANK GROUP

## ABOUT SAWIA

SAWIA was established in 2009 as a non-profit organisation (Reg # NPO 089-579) dedicated to the empowerment of women in the aviation and aerospace industry in the SADC (Southern African Development Community) region. The organisation seeks to be the primary resource point for both established and aspiring female aviation professionals in the SADC region.

Research of the demographics of the SADC aviation sector region has shown the lack of equitable representation of women at every level in the industry. This gave rise to the need for an organisation such as SAWIA to provide both aspiring and established female aviators, technicians, professionals and executives with a representative body, a support structure and an easily accessible reference point.

SAWIA will also create a forum that allows access to more experienced industry professionals, affording aspiring aviators the chance to exchange ideas, network and develop relationships crucial to career success.

The organisation has also established a Girl Fly Programme in Africa (GFPA). The GFPSA is an educational and information programme for high school students that have an interest in the aviation and aerospace industry. The programme is designed to expose young women and the general public to a world of opportunities, while highlighting the achievements of women in aviation and space exploration.

## VISION

To make aviation a viable and accessible career choice for women.

## OBJECTIVES

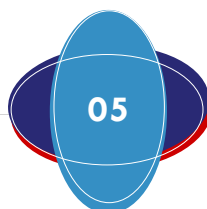
- >> Establish an industry-wide network platform to connect women in aviation.
- >> Mentor and educate to provide support to women into aviation.
- >> Facilitate access to funding for skills development.
- >> Establish partnerships with strategic stakeholders.

## STRATEGY

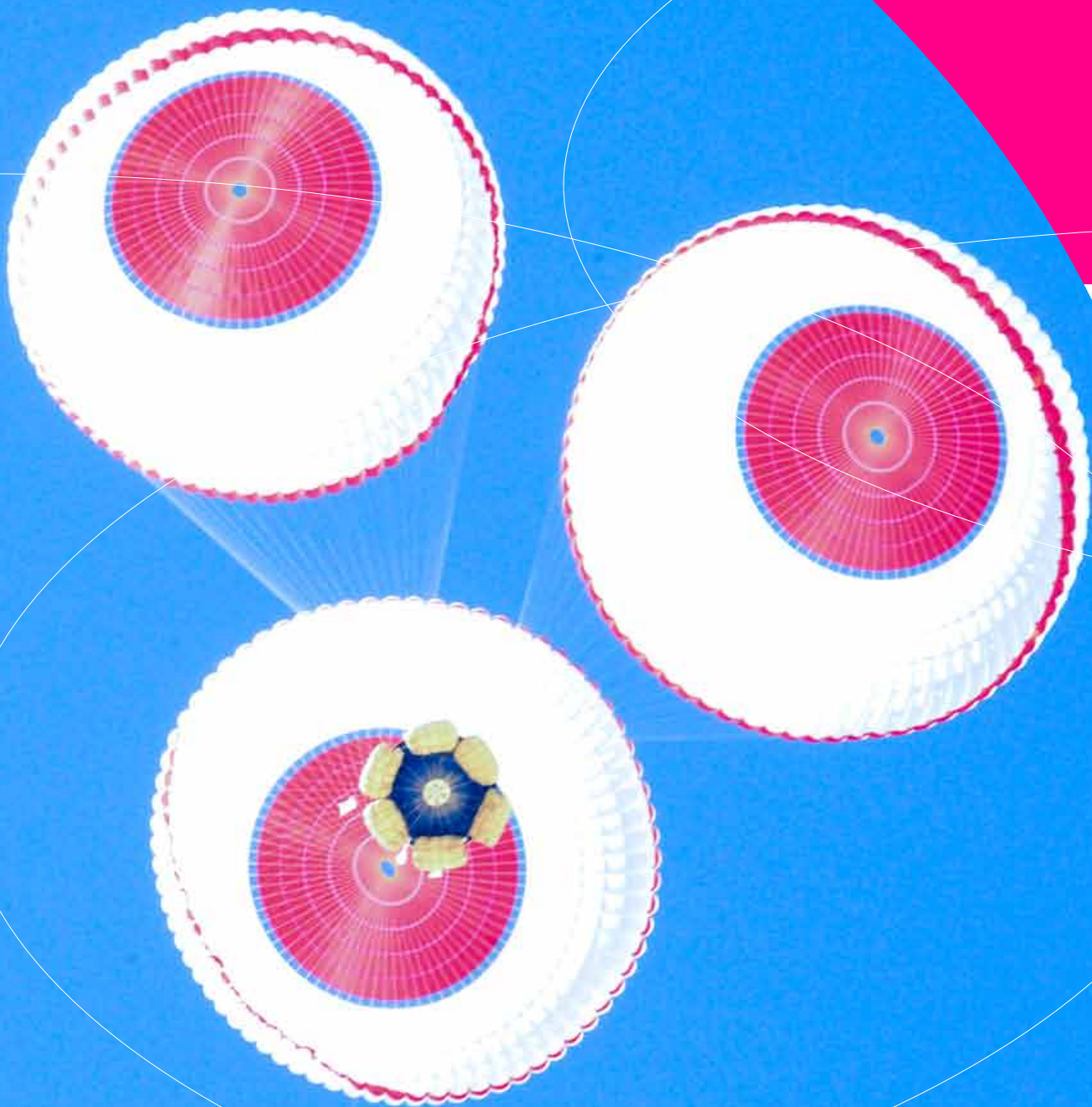
INFORM | MOTIVATE | CONNECT | INSPIRE

## SAWIA VALUE PROPOSITION

- >> SAWIA has evolved from its humble beginnings as a forum for women in aviation and aerospace, to a credible, registered nonprofit organisation making a real difference in South Africa, all this, with limited budget. Driven by passion, our team continues to contribute to the upliftment of women and girls, taking hope, information, inspiration and motivation to the communities.
- >> SAWIA has secured scholarships from international donors: the KEEP FLYING SCHOLARSHIP INTERNATIONAL.
- >> SAWIA continues to engage with and enjoy the support of various stakeholders in the private and public sector in addressing skills shortage.
- >> SAWIA is endorsed by the Civil Aviation Authority (CAA), the Joint Aviation Awareness Programme (JAAP) and Aviation and Women in Europe (AWE).







## BLUE SKIES!

The main parachutes deploy for Boeing's crew capsule during a parachute drop test on May 2, 2012. This is the second successful parachute drop test for its Crew Space Transportation (CST) spacecraft, part of Boeing's effort to develop commercial crew transportation capabilities that could ferry U.S. astronauts to and from low-Earth orbit and the International Space Station. To accomplish the task, a helicopter lifted the CST-100 crew capsule to about 10,000 feet above the Delmar Dry Lake Bed near Alamo, Nev. A drogue parachute deployment sequence was initiated, followed by deployment of the main parachute. The capsule descended to a smooth ground landing, cushioned by six inflated air bags.

IMAGE CREDIT: NASA/BOEING

IMAGE SOURCE: <http://www.nasa.gov/multimedia/imagegallery/lotd.html>



# NETWORKING & EVENTS

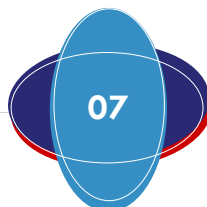
SAWIA/WAI SAN FRANCISCO BAY AREA AVIATION MOMENTS  
(RENO, ST HELENA, SAN FRANCISCO & NEW YORK)

**“When I'm asked about the relevance to Black people of what I do, I take that as an affront. It presupposes that Black people have never been involved in exploring the heavens, but this is not so. Ancient African empires - Mali, Songhai, Egypt - had scientists, astronomers. The fact is that space and its resources belong to all of us, not to any one group.”**

MAE JEMISON BECAME THE FIRST AFRICAN AMERICAN WOMAN ASTRONAUT WITH THE NASA SPACE PROGRAMME - A PHYSICIAN WHO WORKED WITH THE PEACE CORP, SHE JOINED THE STAFF OF A MEDICAL SCHOOL AND RUNS HER OWN TECHNOLOGY COMPANY



SAWIA members attended a conference in Reno, Nevada USA and after the conference were hosted by Women in Aviation International San Francisco bay area. We spent a week in San Francisco networking and learning from the members of the bay area. We also had an opportunity to visit Stanford University and Facebook. An awesome and inspiring trip! It was during this time that the idea of the Keep Flying Scholarship International was conceived.



# NETWORKING & EVENTS

ADAMS COLLEGE LEGACY DINNER



Established 1853

## *Adams College* LEGACY DINNER





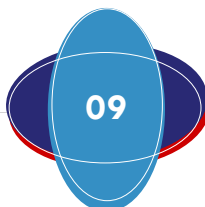
# NETWORKING & EVENTS

## INTERNATIONAL FRIENDS OF SAWIA VISIT TO SOUTH AFRICA



The top photograph was taken during the Women in Aviation International conference in Dallas Texas in 2012. This photo was taken during a networking event for all international countries represented at the conference. Refilwe met a fellow South African (Mary Fairbank) who is currently flying citations in Boston. At this conference, the funding for the KFS International Scholarship increased to USD3000.

The other photographs show the Women in Aviation International San Francisco Area visit to South Africa. Our visitors participated in SAWIA's Soweto Aviation Day, enjoyed a visit to Adams College and a visit to both the SAPS Air Wing and the South African Airforce. The members networked, worked, laughed and shared ideas, inspiration, motivation and future developments.





## MCCANDLESS ORBITS IN JETPACK

On Feb. 12, 1984, astronaut Bruce McCandless, ventured further away from the confines and safety of his ship than any previous astronaut had ever been. This space first was made possible by a nitrogen jet propelled backpack, previously known at NASA as the Manned Maneuvering Unit or MMU. After a series of test maneuvers inside and above Challenger's payload bay, McCandless went "free-flying" to a distance of 320 feet away from the Orbiter. This stunning orbital panorama view shows McCandless out there amongst the black and blue of Earth and space.

IMAGE CREDIT: NASA

IMAGE SOURCE: [http://www.nasa.gov/images/content/601259main\\_jetpack\\_full.jpg](http://www.nasa.gov/images/content/601259main_jetpack_full.jpg)



# KEY PROJECTS & COMMUNITY OUTREACH

## THE DURBAN AIR SHOW

**“I decided blacks should not have to experience the difficulties I had faced, so I opened a flying school to teach other black women to fly...the air is the only place free from prejudices.”** BESSIE COLEMAN, THE FIRST AFRICAN-AMERICAN WOMAN (OR MAN) TO BECOME AN AIRPLANE PILOT



IMAGE CREDIT: Amanda Kandawire | La Photo Diva\*

SAWIA has undertaken several outreach programmes throughout South Africa in partnership with companies and organisations.

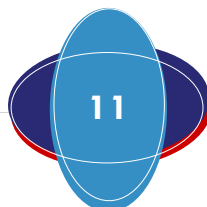


DURBAN Air Show 2012. The Durban Air Show is an annual event held at Virginia Airport. - the second oldest air show in the world. The two day event goes back 51 years in history and was originally conducted to raise public awareness of the countries then still young air force, and to raise money for the NGO Reach for a Dream.

SAWIA would like to thank the Durban Wings Club for sponsoring 20 tickets for SAWIA/ Girl Fly Programme in Africa students to the Durban Air Show, held at Virginia Airport on the 14th of July.



<http://www.wingsclub.co.za>





# KEY PROJECTS & COMMUNITY OUTREACH

## WIPHOLD CAREER WORKSHOPS



Women Investment Portfolio Holdings (WIPHOLD) is an investment and operating company owned by black women & dedicated to the empowerment of black women. The company has a diversified portfolio from financial services through to mining resources and infrastructure development.

WIPHOLD has a three-pronged approach to its business. It is firstly focused on building the companies in which it has an operational stake. A second focus is on growing a portfolio of strategic and value investments. WIPHOLD is also in the early stages of replicating its business model in Africa.

WIPHOLD's operational investments are concentrated in the financial, infrastructure and resources sectors, with financial services comprising the bulk of the portfolio. Strategic and value investments are more widely diversified, something the group is now also aiming for with its operational investments.

“WIPHOLD's investment approach is to acquire strategic or controlling stakes in companies that are well-managed, have good corporate governance records, a track record of achievement, strong cash flow and attractive growth prospects,” says Tryphosa Ramano, chief financial officer, “and which demonstrate synergy with Wiphold's values and business ethos.

“WIPHOLD's investment strategy is based on enhancing the overall value of the companies we invest in, on identifying new BEE business opportunities, and on enhancing synergies between investee companies.”

[www.wiphold.com](http://www.wiphold.com)





# KEY PROJECTS & COMMUNITY OUTREACH

## WIPHOLD CAREER WORKSHOPS



### CAREER AWARENESS DAYS

WIPHOLD works in conjunction with strategic partners Nedbank, ABB and Adcorp, on the introduction of **Career Development Days** at schools in disadvantaged areas.

**SAWIA** was invited to participate in Wiphold's Career Workshops that took place all over South Africa.



WIPHOLD works in conjunction with strategic partners Nedbank, ABB and Adcorp, on the introduction of Career Development Days at schools in disadvantaged areas.

These events have been held in both urban and rural schools, introducing learners to a wide range of career opportunities. Especially well received has been the participation of SAA pilots, which has opened the learners' eyes to the many exciting opportunities available in the aviation industry.

WIPHOLD is really keen on introducing learners to careers within the science and technology fields, which have traditionally been hard to gain access to. Our country needs more qualified people entering these fields and thus it is a very vital area of our corporate social investment strategy.



# KEY PROJECTS & COMMUNITY OUTREACH

## THE GRAND RAND AIR SHOW



**WE ARE FAMILY**



**SAWIA MEMBERS  
PS..YESS WE FLY**



**THE GIRLS**



**ME N THEO!**



**FUTURE PILOT**



THE GRAND RAND AIR SHOW held on the 20th of May was once again a resounding success. Thousands of people flocked through the gates from 7AM to come and enjoy this annual aviation spectacle. The show program was predominantly filled with civilian aircraft with the exception of an Atlas Impala, three L-39s and the latest addition to our air show scene, the Buckeye, all in private hands today.

The show started with a Chipmunk formation followed by a parachute drop from a DC-3 belonging to Daryl Lush. The DC-3 flew a beautiful fly-past once all the skydivers were on the ground to give the crowd an opportunity to hear the rumble of these great historic radial engines.

A helicopter flying as a camera ship sent live video throughout the day. This helicopter could easily have been part of the show as he impressed at times skilfully manoeuvring into unusual positions for better video coverage. However, he would have been red-carded a few times for flying over the crowd on the eastern side of the airport.

The Eqstra Harvard team entertained as usual but one thing that makes the Grand Rand Air Show so special is the traditional mass radial formation consisting of Harvards, Yaks and a DC-3.

We saw a few solo aerobatic acts during the day and I wonder how many people actually recognise the technical standards and class of these pilots. They may not make lots of noise but they definitely know how to fly.

It has been a while since we last saw a Jet formation team in South Africa and it was a welcome sight to see a four ship jet formation display participating again.

Mustang Sally roared through the skies but there is something missing in its solo display. The speed is very impressive but I think that this team should add another dimension to the routine to break this pendulum type show. She also flew with two Trojans on the day and that was nice.

I truly enjoyed the RV, Extra 300 and MX formation. It was clear that the RV was a little slow for the others but being in the lead and with the experience of the other two, it was awesome to say the least. I hope we will also see them at the other shows.

All in all another great air show to make us all proud!!!

By Juri Keyter

ARTICLE SOURCE: <http://www.pilotspost.com/arn0000070>



# KEY PROJECTS & COMMUNITY OUTREACH

## THE GRAND RAND AIR SHOW

SAWIA's Gauteng Branch hosted and sponsored tickets for a few learners to attend the Grand Rand Air Show this year. We ran an entry competition and asked our learners to write to us and tell us why they should be given an opportunity to win one of the sponsored tickets - here are a few inspirational replies:

"Being among those chosen to attend the Air Show, I believe I'll be exposed to the real world of aviation and also be given the opportunity to acquire significant information on my desired career path, which is aviation." ZIMKHITHA

"I have been to a career expo where I learned a lot about aviation and the careers which are available in aviation, that's where my love for being a pilot or navigator started. Before I went to the expo, I didn't know the meaning of aviation, that there were other careers except being a pilot. I have a bit of information about aviation but I have never seen the whole thing behind flying an aircraft and I think the Air Show will give me experience then my goal of being one of the top female pilots or navigators will be easier to score as I will know what to expect." LAURENTIA

"I'm a 23 year old lady, working at South African Airways as a flight attendant. I enjoy flying and everything to do with aircrafts. I've recently taken my passion for flying to another level by saving to go to flying school. Not only will this opportunity help broaden my knowledge of flying, it would be lovely to share in the fun!" K. KHUMALO

"I am writing an entry for the competition to win a ticket to the Rand Air Show. Whenever I am asked to describe myself, the first two words that come to mind are always: Aviation Passion. To me, aviation is not just an industry but a lifestyle and I am passionate about all things aviation. I am asking that you pick me to win a ticket to the Air Show because this will be awarding me the opportunity to experience the side of aviation I have never had the opportunity to experience before. I feel that for me, going to the Grand Rand Air Show will be both motivating and inspiring. Thank you." THULISILE MOYO

"My name is Theodora and I'm a 21 year old young lady with an ambition of becoming a pilot in the near future. I decided to become a flight attendant as my parents weren't able to afford the fees for me to pursue my dream of becoming a pilot and I thought it would be easier for me to lift myself up whilst in the industry already. I have applied for numerous cadet programmes and have since not been successful. I believe that everything has its own time and hope my dream will come true soon. I do hope that you will grant me the privilege to attend the Air Show and possibly fulfill my dream!" THEODORA NOYILE

"My name is Sibabalwe. I'm from East London, currently studying at Stirling High School. I am a young man that is very passionate about this industry. I've fallen in love with aircrafts since I went on my first flight in 2008. I'm doing my Grade 11 year and I'm planning to attend 43 Air School after finishing Matric. My dream is to become an Airline Pilot and fly with the best. I enjoy flying because I feel I disconnected from the rest of the world and take on a new world with every flight I do go on. I've been doing some ground work with Border Aviation Flight School and Club and get opportunities to go on flights once in a while. I would love to be a part of the Grand Rand Air Show and just be with people that share the same passion as me. The sky is not the limit." SIBA SMONDILE, ASPIRING PILOT.



"Whenever I am asked to describe myself, the first two words that come to mind are always: Aviation Passion."  
THULISILE MOYO





# KEY PROJECTS & COMMUNITY OUTREACH

## SOWETO AVIATION DAY

On the 28th January 2012, SAWIA partnered with International friends and the Kutlwano Centre for Maths, Science and Technology to organise and host the Soweto Aviation Day to raise awareness and share information about opportunities available in the aviation industry and provide a platform for experienced individuals (including pilots from France and the USA) working in the aviation sector to share their stories, inspiration and insight.

SAWIA's objectives for the day were:

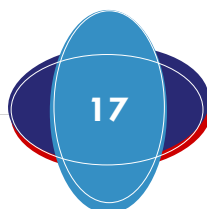
- To create awareness of aviation and aerospace and the opportunity-avenues in the industries;
- To create awareness of the vital importance of the Maths, Science and Technology curriculum for high school learners; and
- To provide a branding/awareness opportunity for stakeholders.





# KEY PROJECTS & COMMUNITY OUTREACH

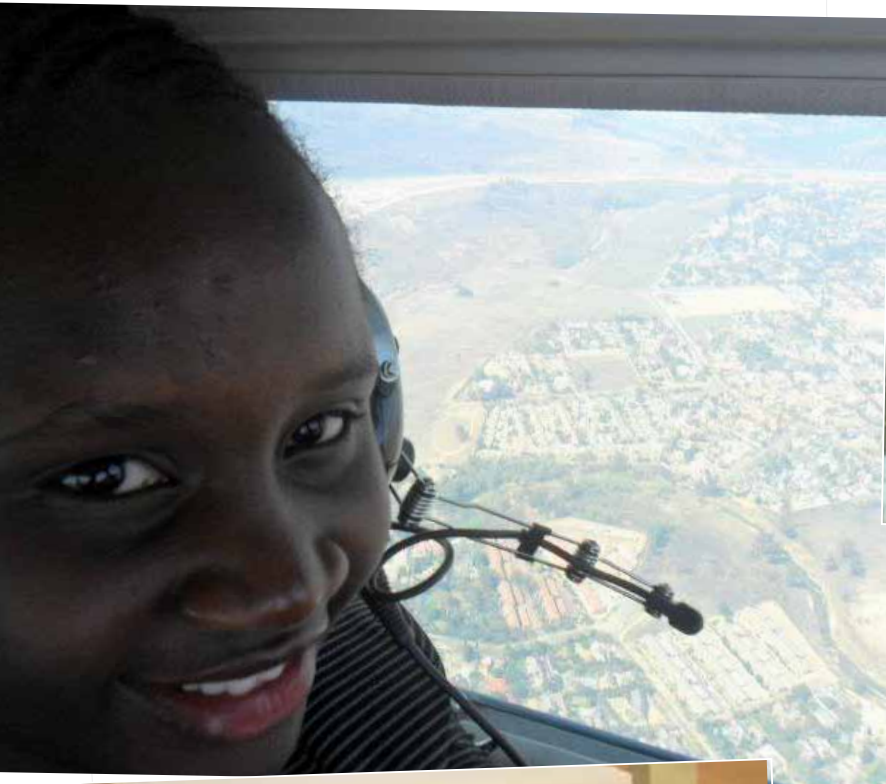
## SOWETO AVIATION DAY





# KEY PROJECTS & COMMUNITY OUTREACH

## ADOPT-A-PILOT PROGRAMME



In 2011 SAWIA and Flight Training Services hosted 20 learners in the Adopt-A-Pilot Day Programme. The inspirational day included: an introduction to Aerodynamics; a brief summation on careers in aviation; a visit to the Air Traffic Control (ATC) tower; an introduction to simulators; lunch with female aviation professionals (pilots and ATC's) and a flight. SAWIA would like to thank FTS for hosting us. WHAT A GREAT DAY!





# KEY PROJECTS & COMMUNITY OUTREACH

## ADAMS COLLEGE VISIT & CAREER TALK



SAWIA hosted a visit with International friends of the organisation (USA) to Adams College for some motivation and inspiration.



# KEY PROJECTS & COMMUNITY OUTREACH

## KZN YOUTH AVIATION DAY



MAP SOURCE: <http://goo.gl/maps/wspV>

### MAP & DIRECTIONS TO ADAMS COLLEGE

**FROM DURBAN**  
 M4/N2 SOUTH-BOUND: drive past the old Durban International Airport until you reach the KwaMakhutha/Moss Kolnik Drive turn, drive over the bridge past the Galleria Mall entrance (on the right), past Southgate Industrial Park (on the right), past KwaMakhutha township (on the right) for 10km until you reach a T-junction, turn right onto the R603 (Umbumbulu/Pietermaritzburg road) - the Adams College entrance is about 500m to your right.

**FROM PORT SHEPSTONE**  
 N2 NORTH-BOUND: take the Kingburgh/Umbumbulu/R603, just after Umgababa turn left and drive past Illovo township for about 8km, just past KwaMakhutha turn right - the Adams College entrance is on your right.

**FROM PIETERMARITZBURG**  
 N3 DURBAN-BOUND: take the Umbumbulu/Richmond turn off, drive over the bridge and keep going straight for about 60km, past Umbumbulu, past Isipingo, then take the left turnoff and keep going for about 2km - the Adams College entrance is on your left.

**PILOT CO-ORDINATES:** S30°01'43.5 E030°49'060

IF YOU GET LOST, PLEASE CONTACT REFILWE LEDWABA ON 082 706 4166 WHO WILL BE HAPPY TO GUIDE YOU.

### CONTACT US

**ADAMS COLLEGE**  
 THE PRINCIPAL: MRS. T. KHUMALO  
 PHYSICAL ADDRESS: H BLOCK, ADAMS COLLEGE, AMANZIMTOTI, 4125  
 CELL: 079 527 9999  
 TELEPHONE: 031 905 2758  
 FACSIMILE: 031 905 1422  
 EMAIL: [principal@adamscolleges.co.za](mailto:principal@adamscolleges.co.za)  
 WEBSITE: <http://www.adamscolleges.co.za>

**SOUTHERN AFRICAN WOMEN IN AVIATION & AEROSPACE**  
 FAX # 086 566 5803  
 WEBSITE: <http://www.sawia.org>  
 FACEBOOK: <http://www.facebook.com/SAWIA.org>  
 TWITTER: <https://twitter.com/SAWIA.org>  
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 KWAZULU NATAL BRANCH: [kzn.sawia@gmail.com](mailto:kzn.sawia@gmail.com)  
 GAUTENG BRANCH: [sawia.gp@gmail.com](mailto:sawia.gp@gmail.com)  
 LIMPOPO BRANCH: [lim.sawia@gmail.com](mailto:lim.sawia@gmail.com)

SAWIA & ADAMS COLLEGE PROUDLY PRESENT

## THE KZN AVIATION DAY CELEBRATE YOUTH DAY 16 JUNE 2012

KEYNOTE SPEAKER:  
 PROFESSOR LINDA CHISHOLM  
 ADVISOR TO THE MINISTER OF BASIC EDUCATION

SAWIA & ADAMS COLLEGE WOULD LIKE TO THANK THE FOLLOWING SPONSORS FOR MAKING THE KZN YOUTH AVIATION DAY POSSIBLE:





# KEY PROJECTS & COMMUNITY OUTREACH

## KZN YOUTH AVIATION DAY



IMAGE COURTESY: www.kzn.gov.za/aviation/aviationday/aviationday2012



### 08:15 – 11:15 SESSION 1: PLENARY SESSION IN THIS SESSION, ALL LEARNERS ARE ADDRESSED AT THE OPENING VENUE

TIME	ITEM	PROPOSED SPEAKER
08:15 – 08:30	OPENING PRAYER & HOUSEKEEPING RULES	MOKGADI LESHALABE – SAWIA KZN BRANCH COORDINATOR
08:30 – 08:45	OFFICIAL WELCOMING	MR T.E. KHUMALO – PRINCIPAL ADAMS COLLEGE
08:45 – 09:00	ABOUT SAWIA	MR PETER KEKANA – SAWIA TEAM MEMBER FOR FUNDRAISING
09:00 – 09:30	MOTIVATION	MAX MOYO – FOUNDER & CEO OF IGNITE MY POTENTIAL
09:30 – 09:35	INTRODUCTION OF THE KEYNOTE SPEAKER	MOKGADI LESHALABE – SAWIA KZN BRANCH COORDINATOR

### 09:35 – 10:15 KEYNOTE ADDRESS PROFESSOR LINDA CHISHOLM – ADVISOR TO THE SOUTH AFRICAN MINISTER OF BASIC EDUCATION

### 10:15 – 10:45 MUSICAL ITEM FROM ADAMS COLLEGE

10:45 – 11:00	FRIENDS OF ADAM'S COLLEGE	MOSES KOTANE INSTITUTE HISTORICAL SCHOOL RESTORATION PROJECTS
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### 11:00 – 12:00 BRUNCH

### 12:00 – 16:00 SESSION 2: GROUP BREAKAWAY SESSION IN THIS SESSION, LEARNERS ARE SEPARATED INTO GROUPS (ROTATING EVERY 20 MINUTES). EACH BREAK-AWAY WILL HAVE A PANEL OF EXPERTS TO INFORM AND ANSWER QUESTIONS. THIS SESSION WILL BE FOLLOWED BY A GENERAL Q&A.

CLASSROOM	ORGANISATION/COMPANY
A	CIVIL AVIATION AUTHORITY/JOINT AVIATION AWARENESS PROGRAMME
B	SOUTH AFRICAN POLICE SERVICE AIR WING
<b>A LEARNER VISIT TO AN SAPS AIR WING STATIC HELICOPTER</b>	
D	SOUTH AFRICAN AIRWAYS
E	SOUTH AFRICAN NATIONAL SPACE AGENCY



On the 16th June 2012, SAWIA & ADAMS COLLEGE held the first KZN YOUTH AVIATION DAY. It was a day of inspiration, motivation and career workshops. The keynote speaker was Professor Linda Chisholm, Advisor to the Minister of Basic Education and Max Moyo, Founder and CEO of Ignite My Potential, was another great speaker. The SAWIA Team & Adams College would like to thank the following sponsors for making the event possible: Civil Aviation Authority, Joint Aviation Awareness Programme, the South African Police Service Air Wing, South African Airways, the South African Air Force and the South African National Space Agency.





## ORBITING A RED DWARF STAR

This artist's concept of a gas giant planet orbiting a red dwarf K star shows a planet that has not been directly imaged, but its presence was detected in 2003 microlensing observations of a field star in our galaxy. Gravitational microlensing happens when a foreground star amplifies the light of a background star that momentarily aligns with it. Follow-up observations by Hubble Space Telescope in 2005 separated the light of the slightly offset foreground star from the background star. This allowed the host star to be identified as a red dwarf star located 19,000 light-years away. The Hubble observations allow for the planet's mass to be estimated at 2.6 Jupiter masses. The characteristics of the lensing event show that the planet is in a Jupiter-sized orbit around its parent red star. The rings and moon around the gas giant are hypothetical, but plausible, given the nature of the family of gas giant planets in our solar system.

IMAGE CREDIT: NASA, ESA AND G. BACON (STSCI)

IMAGE SOURCE: [http://www.nasa.gov/images/content/160020main\\_image\\_feature\\_671\\_ys\\_full.jpg](http://www.nasa.gov/images/content/160020main_image_feature_671_ys_full.jpg)

# SAWI EDUCATION INITIATIVES

## GIRL FLY PROGRAMME IN AFRICA

**“Current estimates place the number of out-of-school children at 93 million...the majority of these children are girls, and almost 80% of them live in sub-Saharan Africa and South Asia...quality education remains a distant dream for many of the world's children, even though it is a fundamental human right enshrined in international commitments...”** UNICEF: BASIC EDUCATION & GENDER EQUALITY REPORT, 2010

### ABOUT GIRL FLY PROGRAMME IN AFRICA

GIRL FLY PROGRAMME IN AFRICA is an educational and informative programme aimed specifically at high school female learners who are interested in a career in aviation and aerospace. GIRL FLY PROGRAMME IN AFRICA is an annual programme of events for twenty Grade 10, 11 and 12 selected learners and is designed to run parallel with the learners' high school curriculum. Currently, the programme offers four quarterly events:

The primary objective of the programme is to provide twenty promising girls with support and the necessary resources to assist them in their pursuit of careers in aviation and aerospace or any other science and technology related careers.

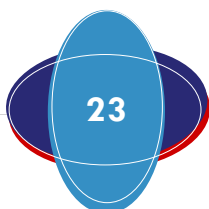
### PROGRAMME STRUCTURE

- > An annual intake of 20 grade 10, 11 and 12 selected to join the programme through a rigorous selection process which includes the following:
  - >> Learners nominated for the programme by their teachers
  - >> Outstanding academic performance
  - >> Essay writing expressing interest in a career in aviation
  - >> A panel interview
- > A performance evaluation or development plan which will track the student's performance on the programme will be implemented. This process and other initiatives will ensure that:
  - >> The learners receive the necessary support through the mentorship programme where learners are paired up with mentors (SAWIA members)
  - >> The learners maintain (or improve) the academic performance
  - >> The learners prepared and informed on how to access their chosen career paths through assistance with, for example, university, cadet programmes and bursary applications.



### ANNUAL GFPA QUARTERLY EVENTS

	QUARTER 1	QUARTER 2	QUARTER 3	QUARTER 4
INITIATIVE	INDUCTION/AWARD CEREMORY	ADOPT A PILOT DAY	AVIATION CAMP	YEAR-END DINNER
DESCRIPTION	1 day event, induction for the current group and award ceremony for previous group (completing programme) Panel discussion,	Although called adopt a “pilot” day. The programme will also cover various aviation professions and will involve a day visit to several aviation companies and a training school	A 3 day camp which encompasses aviation related training and life skills coaching	A lunch and motivational talk for the student to encourage them before the exams
FORMAT	Lunch and girl fly programme panel discussion	Visit to training school (ground school),ATNS, and first training flight	Day 1: Introduction to aviation Day 2: Lifeskills (team building activities) Day 3: Getting into Aviation	
OUTCOME	Networking and connecting with aviation professionals. Connects students to mentor. Learner development plan	The students are introduced to the basics of aviation (or any other chosen field)	Student assesment and selection of best student for SAWIA scholarship/bursary	





# SAWIA EDUCATION INITIATIVES

## GIRL FLY PROGRAMME IN AFRICA

### Girls pursuing their dreams of flight

SLINDILE MALULEKA

THE perception that only men can be pilots is being challenged by a group of 21 young and aspiring KwaZulu-Natal girls who have dreams of pursuing careers in aviation.

The girls are part of an innovative project called the Techno Girl Programme that aims to expose girls to careers in sectors with gender inequity and skills shortages that require excellence in the fields of maths, science and technology.

The girls were split into three groups to experience different aviation workplaces with the South African Women in Aviation (Sawia) at the old Durban International Airport, the Police Air Wing and the Air Traffic and Navigation Services (ATNS) at King Shaka International Airport.

The wider three-day programme, which started yesterday and ends tomorrow, has involved 106 girls between the ages of 15 and 18, selected on academic merit.

Yesterday, Nokululeka Myeza, 16, of Folwint, and Bonghwe Dlamini, also 16, of



**FLYING HIGH:** Aspiring Durban pilots Bonghwe Dlamini, left, and Nokululeka Myeza, both 16, explore the controls of the Oryx, a helicopter used for transportation at the South African Women in Aviation company based at the Old Durban International Airport.

They are part of a group selected for the Techno Girl Programme, which aims to provide girls with knowledge of careers requiring scarce skills that are desperately needed in the country.

PICTURE: MARKON BERNARD

that it is a man's job.

"I have realised that there are not many women who are pilots. I have always dreamed of driving an aircraft. I want to learn more about a helicopter, the engine, the controls and how far you can go in the career of being a pilot. I want

home anymore," Myeza said.

The programme exposes girls to various career paths through job shadowing.

They are placed in career fields and occupations where women are under-represented, including engineering, construction, design and

Efforts to Save Orphans formed a partnership to pilot the programme in KZN, Limpopo, the Western Cape, Gauteng and North West.

Dlamini said after learning more about being a pilot, she felt she would get a chance to explore the world.

Laura Bonga, 25, a co-pilot at Sawia, said the three groups of girls in KZN would be rotated to get experience at all three aviation companies.

"This is quite an experience because the programme is being done in the province for the first time. The company also

### ITHUBA LOKUNDIZELA PHEZULU



ABAFUNDI bamantombazane bezikole ezahlukehlulane banikezwe ithuba lokufundiswa ngokashayela amaharoyi nokanye okuningi okuphathene nezindiza. Kusuka ngakwesokunxele nguNosipho Khuzwayo, Laura Bonga (oshiyela izindiza) noThandeka Nxelo. Ithubom: NOOBILE MDOHAMBI. LIDABA EKHASINI 4





# SAWIA EDUCATION INITIATIVES

## UNICEF/UWESO CONSULTING: TECHNO GIRLS PROGRAMME



### Techno Girl Programme tackles skills shortage in South Africa

ABOVE: SAWIA partnered with the TECHNO GIRLS PROGRAMME and place girls in different aviation companies for a Job-Shadowing Project. The girls spend four days in different aviation companies learning about career opportunities in aviation.

THE FIELDS OF SCIENCE, technology and engineering are traditionally dominated by men, and girls are often not encouraged at school level to pursue these careers. Over 4,250 girls have been placed in corporate mentorship and job shadowing programmes since 2007

4 November 2011, Johannesburg/Pretoria – An innovative public-private partnership seeking to reverse the growing skills shortage in science, technology, engineering, and mathematics in South Africa is encouraging girls to pursue careers in these fields by giving them first-hand real-world experience.

The Techno Girl programme identifies 15–18-year-old school girls from disadvantaged communities and places them in corporate mentorship and job shadowing programmes. The programme is a collaboration between the Department for Women, Children and people with Disabilities, the public and private sectors and UNICEF. Since its inception in 2007, the programme has reached over 4,250 girls.

During a business breakfast today, the Minister for Women, Children and People with Disabilities, Ms Lulu Xingwana, recognised the achievements of the programme and called on companies and professional organisations to join the programme.

“We are giving girls the opportunity to excel in the fields that the country’s economy requires,” said Xingwana. “To be inspired to succeed they need to have a solid understanding of the industries and to be guided regarding subject choices and tertiary education, while they are still at school.”

There has been a growing concern that South Africa is not preparing a sufficient number of graduates in science, technology, engineering, and mathematics. A large majority of secondary school learners fail to reach

proficiency in maths and science, and when compared to other nations in global tests, the maths and science achievements of South African learners at grade 3 were significantly below average.

For girls, the situation is much worse – with less than a third of girls taking maths or science in the secondary school years. The fields of science, technology and engineering are traditionally dominated by men, and girls are often not encouraged at school level to pursue these careers. This contributes to reducing the career opportunities – and earning potential – that girls would otherwise enjoy.

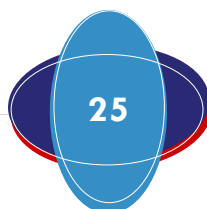
“UNICEF is confident that over the coming years Techno Girl will reach even more girls, inspiring them to become the scientists and engineers who will ensure a bright future not only for themselves and their families, but the country as a whole,” said UNICEF Representative Aida Girma.

A 2010 survey conducted with girls who had been part of the Techno Girl programme showed that 94 per cent has a better understanding of the working world and the skills requirements of the various careers they were exposed to.

For 18-year-old Khanyisile Mokele participating in Techno Girl has grown her confidence and determination to become a civil engineer. “I want to design my own bridge,” she says, “bridges bring the world closer.”

With a focus on girls from disadvantaged backgrounds – particularly in rural areas – the programme is founded on the principle of equity. Scale-up of the programme by the Government of South Africa shows the country’s commitment to advancing the rights of girls and women.

ARTICLE SOURCE: [http://www.unicef.org/southafrica/media\\_9912.html](http://www.unicef.org/southafrica/media_9912.html)  
<http://www.uweso.co.za> | [http://www.unicef.org/southafrica/media\\_9912.html](http://www.unicef.org/southafrica/media_9912.html)





## EXPLORING THE WONDERS OF THE UNIVERSE

The newly-installed Alpha Magnetic Spectrometer-2 is visible at center of the International Space Station's starboard truss. The Alpha Magnetic Spectrometer, or AMS, is the largest scientific collaboration to use the orbital laboratory. This investigation is sponsored by the U.S. Department of Energy and made possible by funding from 16 nations. Led by Nobel Laureate Samuel Ting, more than 600 physicists from around the globe will be able to participate in the data generated from this particle physics detector. The mission of the AMS is, in part, to seek answers to the mysteries of antimatter, dark matter and cosmic ray propagation in the universe.

IMAGE CREDIT: NASA

IMAGE SOURCE: [http://www.nasa.gov/images/content/550933main\\_s134e007532\\_hires\\_full.jpg](http://www.nasa.gov/images/content/550933main_s134e007532_hires_full.jpg)



# SCHOLARSHIPS

**“The most difficult thing is the decision to act, the rest is merely tenacity. The fears are paper tigers. You can do anything you decide to do. You can act to change and control your life; and the procedure, the process is its own reward.”** AMELIA EARHART - THE FIRST

WOMAN TO RECEIVE THE USA DISTINGUISHED FLYING CROSS, AWARDED FOR BEING THE FIRST AVIATRIX TO FLY SOLO ACROSS THE ATLANTIC OCEAN

## KEEP FLYING INTERNATIONAL SCHOLARSHIP

THE KEEP FLYING SCHOLARSHIP facilitates SAWIA's goal is to support budding aviatrixes and allow them to build careers and networks in their home countries. The scholarship is awarded annually and encourages the development of flying and business skills; empowers young female pilots with the knowledge and skills they need to build their careers. The Keep Flying Scholarship can be used for any one of these stepping stones: Instrument Rating, Commercial Certificate, Multi-engine Rating and flight Instructor (CFI only).

## SAWIA SCHOLARSHIPS

In line with SAWIA's objectives to facilitate access to funding for skills development, SAWIA partners as a collective with various players to offer flight training, type ratings, instructor ratings, cabin crew scholarships and the sponsorship of aviation academic pursuits.



### SAWIA CONGRATULATES THE 2011 RECIPIENT: MICHAELA MEISWINKEL (2010/2011 KFS INTERNATIONAL SCHOLARSHIP)

MICHAELA MEISWINKEL. On 9 May 2011, Michaela Meiswinkel, an aspiring pilot from Port Elizabeth was awarded to very first Keep Flying International Scholarship. Michaela hails from Port Elizabeth, is the youngest of three children and she is currently a cadet at Aprac Flying School working towards her Commercial Pilot license. In addition to the night rating, Michaela will also receive CX2 pathfinder, mentorship from SAWIA and will feature in one of the major Airline magazines.

[www.flyafrica.info/forums/showthread.php?38554-SAWIA-Announces-the-Keep-Flying-scholarship-International-Winner](http://www.flyafrica.info/forums/showthread.php?38554-SAWIA-Announces-the-Keep-Flying-scholarship-International-Winner)



### SAWIA CONGRATULATES THE 2012 RECIPIENTS: MAPHUTI NDALA (2011/2012 KFS INTERNATIONAL SCHOLARSHIP)

MAPHUTI NDALA's scholarship provided her with funding to complete her night rating and CPL Ground School exams. She hails from Tshwane (Pretoria) and is currently the holder of a Private Pilot License. She hopes to one day fly for an airline. Maphuti has a keen interest in all issues affecting the South African youth and is a volunteer with SAWIA's Girl Fly Programme in Africa.

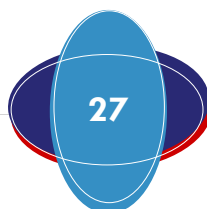
[www.wai.org/education/scholarship\\_winners\\_2012.cfm](http://www.wai.org/education/scholarship_winners_2012.cfm) & [www.afwdigital.org/afw/20120506?pg=36#pg36](http://www.afwdigital.org/afw/20120506?pg=36#pg36)



### LUMKA MSIBI (2012 SOUTHERN HEMISPHERE SUMMER SPACE PROGRAM)

LUMKA MSIBI, born at Baragwaneth (Chris Hani) Hospital in Soweto, was raised by her loving parents, Nkosini Samuel and Nomsa. She has two older brothers, Lwazilwenkosi and Mfundo and a Twin sister Nonhlakanipho. Lumka was privileged to attend Parktown High School for Girls, a school with rich history, strong traditions and an excellent all-round education based on strong values. It promoted academic excellence and active participation in extramural programmes. Academically Lumka always strove to do well, enjoying Physical Science, Mathematics and English and participated in the English Olympiad, the latter necessitated personal commitment, learning and much preparation. Complementing her academic studies was an active participation in school extramural activities. Of particular importance to her development were leadership positions, culminating in her being elected as a prefect and house captain in Grade 12, 2008. Other valuable activities include being involved in sports and cultural events. These contributed to her personal growth and development, and further enriched her schooling experience. Her passion for helping others was also spurred by many of her engagements with those less fortunate her, mainly

through the Claremont charity committee. Lumka thoroughly enjoyed her schooling at Parktown Girls, receiving a good all-round education and made a number of lasting friendships. Parktown gave her a solid foundation from which to attend the University of the Witwatersrand. Having matriculated with a full house (8 distinctions) in all her subjects she applied to study aeronautical engineering at the University of the Witwatersrand. Lumka is currently in her third year and is in the top 15% of academic achievers at the University. Read Lumka's blog contribution on SAWIA's blog: <http://southernafricanwomeninaviation.blogspot.com/2012/02/2012-southern-hemisphere-summer-space.html>







## FILIGREE AND SHADOW

Wispy tendrils of hot dust and gas glow brightly in this ultraviolet image of the Cygnus Loop Nebula, taken by NASA's Galaxy Evolution Explorer. The nebula lies about 1,500 light-years away, and is a supernova remnant, left over from a massive stellar explosion that occurred 5,000-8,000 years ago. The Cygnus Loop extends more than three times the size of the full moon in the night sky, and is tucked next to one of the 'swan's wings' in the constellation of Cygnus.

IMAGE CREDIT: NASA/JPL-Caltech  
IMAGE SOURCE: [http://www.nasa.gov/images/content/633526main\\_PIA15415\\_full.jpg](http://www.nasa.gov/images/content/633526main_PIA15415_full.jpg)



# SAWIA IN THE NEWS

IN PRINTED PUBLICATIONS:

ABOUTIME MAGAZINE - OFFICIAL 1TIME AIRLINE IN-FLIGHT MAGAZINE

“...Our deepest fear is not that we are inadequate. Our deepest fear is that we are powerful beyond measure. It is our light, not our darkness, that most frightens us. We ask ourselves, who am I to be brilliant, gorgeous, talented, fabulous? Actually, who are you not to be? You are a child of God. Your playing small doesn't serve the world. There's nothing enlightened about shrinking so that other people won't feel insecure around you. We are all meant to shine, as children do...It's not just in some of us; it's in everyone. And as we let our own light shine, we unconsciously give other people permission to do the same. As we're liberated from our own fear, our presence automatically liberates others.” 'A RETURN TO LOVE' (1992) BY MARIANNE WILLIAMSON QUOTED BY NELSON

MANDELA IN HIS INAUGURAL SPEECH AS THE FIRST DEMOCRATICALLY ELECTED PRESIDENT OF SOUTH AFRICA IN 1994

## aboutTime

OFFICIAL INFLIGHT MAGAZINE FOR 1time AIRLINE



### GIVING GIRLS WINGS

A YOUNG FEMALE aspiring pilot from Port Elizabeth has recently become the first recipient of the Keep Flying International scholarship.

Michaela Meiswinkel, who is currently a cadet at Aprtac Flying School and is working towards her Commercial Pilot's license, has had an interest in flying for several years. "When I was 15, I had to decide on a career and make subject choices accordingly. Flying interested me, but as it is not a very common career choice, especially for girls, and there wasn't much information about it. So I decided to find out all I could about getting into the air. I started 'shadowing' at local flight schools, following instructors around, asking questions. Then a family friend took me up on my first flight, gave me the controls, and I experienced that amazing feeling of having the aircraft in my hands. It was then that my interest became my passion."

Michaela spent her last two years at high school studying hard to maintain her grades, and visiting flight schools on the weekends. "When I was offered a cadetship at Abtrac Aviation I accepted it eagerly. Being a cadet can be really tough at times, with long hours, weekend shifts, moving and refuelling aircraft and general office admin; but I get free flying hours as remuneration, which is an excellent way to reach my goal. So far I have gained my Private Pilot Licence and am busy with my Commercial Pilot Licence."

Michaela was understandably elated when she heard the news of her scholarship, and is planning on sharing her good fortune with other aspiring female pilots. "I am thrilled and grateful to be receiving sponsorship for my night rating. One part of being a cadet that gives me great satisfaction is showing other young aspiring pilots around, especially young women, giving them advice and guiding them as to where



# SAWIA IN THE NEWS

IN PRINTED PUBLICATIONS:

ABOUTIME MAGAZINE & AVIATRIX AEROGRAM MAGAZINE

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**The Keep Flying Scholarship**

The originators of the Keep Flying Scholarship, Deborah Hecker and Evelyn Tinkl, both benefited from the Women in Aviation rating scholarship, and went on to have successful careers with major US airlines. As a result, they felt a strong desire to contribute to the aviation profession by helping to create the same opportunities for other aspiring aviators, which is how the "Keep Flying Scholarship" (KFS) came into being in 2001. In 2009, another commercial airline pilot, Janet Patton, joined the KFS team and to date, scholarships of over \$36,000 (approximately R250,000) have been awarded.

At the 2011 Women in Aviation International (WAI) conference in the USA earlier this year, the possibility was raised of expanding the scholarship internationally. After networking with Refilwe Ledwaba, a pilot from South Africa, the decision was taken to expand the scholarship to include Southern Africa. Refilwe, who is the founder of the Southern African Women in Aviation & Aerospace Industry (SAWIA) – a non-profit organisation aimed at promoting aviation as a career choice in South Africa – offered her expertise to KFS. As a result of the collaboration between SAWIA and KFS, the scholarship decided to offer a night rating scholarship to a deserving pilot from the SADC region.

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## THE KEEP FLYING SCHOLARSHIP

The originators of the Keep Flying Scholarship, Deborah Hecker and Evelyn Tinkl, both benefited from the Women in Aviation rating scholarship, and went on to have successful careers with major US airlines. As a result, they felt a strong desire to contribute to the aviation profession by helping to create the same opportunities for other aspiring aviators, which is how the "Keep Flying Scholarship" (KFS) came into being in 2001. In 2009, another commercial airline pilot, Janet Patton, joined the KFS team and to date, scholarships of over \$36,000 (approximately R250,000) have been awarded.

At the 2011 Women in Aviation International (WAI) conference in the USA earlier this year, the possibility was raised of expanding the scholarship internationally. After networking with Refilwe Ledwaba, a pilot from South Africa, the decision was taken to expand the scholarship to include Southern Africa. Refilwe, who is the founder of the Southern African Women in Aviation & Aerospace Industry (SAWIA) – a non-profit organisation aimed at promoting aviation as a career choice in South Africa – offered her expertise to KFS. As a result of the collaboration between SAWIA and KFS, the scholarship decided to offer a night rating scholarship to a deserving pilot from the SADC region.

SOURCE: [www.aboutime.co.za/index.php/giving-girls-wings/](http://www.aboutime.co.za/index.php/giving-girls-wings/)

JUNE AN E-ZINE FOR WOMEN PILOTS 2011

# AVIATRIX AEROGRAM



AVIATRIX AEROGRAM JUNE 2011

## THE KEEP FLYING SCHOLARSHIP INTERNATIONAL

Material Adapted from Press Release by Laura Jumps



**Introduction:**  
Back in 1996, Deborah Hecker and Evelyn Tinkl, were both recipients of a Women in Aviation scholarship. It was after the tragic events of 9/11 that Deborah and Evelyn decided to create an intermediate level flight scholarship designed to assist young pilots with their training. The aim of the project was to 'keep candidates flying' and so the 'Keep Flying Scholarship' came into being in 2009, another commercial airline pilot, Janet Patton, joined the KFS team.

**Partnership:**  
It was at the 2011 Women in Aviation International (WAI) conference that the possibility of expanding the Keep Flying Scholarship came about. After networking between the principals of KFS and Refilwe Ledwaba a pilot from South Africa that was attending the conference, a strong rapport was struck, an idea formed and the seeds of a partnership were sown. Take the Keep Flying Scholarship International! Take it to Southern Africa!

The idea was very conceptual. Refilwe, who was raised in West Africa, and Deborah, heavily involved in international affairs, immediately saw the potential impact of expanding the programme in developing countries. Refilwe, the founder of the Southern African Women in Aviation & Aerospace Industry (SAWIA), a non-profit organisation aimed at promoting aviation as a career choice in South Africa, was the ideal person to expand the idea and partner with KFS. As a result of the collaboration between SAWIA and KFS, the scholarship decided to offer a night rating scholarship to a deserving pilot from the SADC region. KFS board Cheryl Dobell assumed the funding for the local scholarship, and we are proud to announce the candidate has been already been selected.

AVIATRIX AEROGRAM JUNE 2011

About SAWIA  
**SAWIA (Southern African Women in Aviation and Aerospace Industry)** was established in 2009 as a registered non-profit organisation. Dedicated to the empowerment of women in the aviation and aerospace industry in the Southern African Development Community region, the organisation seeks to be the primary resource point for both established and aspiring female aviation professionals.

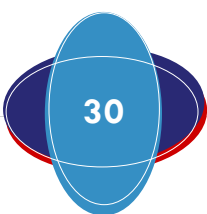
Catering to both established and aspiring aviation professionals, pilots, technicians, and executives, SAWIA provides a source of information, support structure and an accessible networking point. For instance, the SAWIA platform provides our members with access to experienced industry professionals, fostering mentorship and the opportunity to develop relationships crucial to career success.

Related to the Keep Flying Scholarship, is SAWIA's own **Girl Fly Programme in Africa**. This educational programme is aimed at high school students that may have an interest in the aviation and aerospace industry, by exposing the general public, but young women in particular, to the very real and achievable career possibilities in our industry, we hope to change the Southern African Aviation industry in all the right ways!

Words of Wisdom (Submitted by Susan Siporin)  
If the weather turns iffy, land and get gas.

**Reporting!**  
By Gregory Pinnell, MD, Senior AME

A common question I get from pilots is "if I have a certain medical diagnosis do I need to report it yearly to the FAA?" The answer is yes. But not necessarily. Certain diagnosis such as many heart related disorders will likely need yearly documentation. But others such as hypertension, asthma and question that always follows is "how long will it take to get my medical back from the FAA once I provide the information to them?" That can depend. In many cases we can either call your information in and get a telephone approval. In other cases we can summarize your case by email and get an approval to issue your medical that way. In most cases we can significantly reduce the wait time. Questions on your specific aeromedical issue? We are as near as your phone or email. Fly Safe!

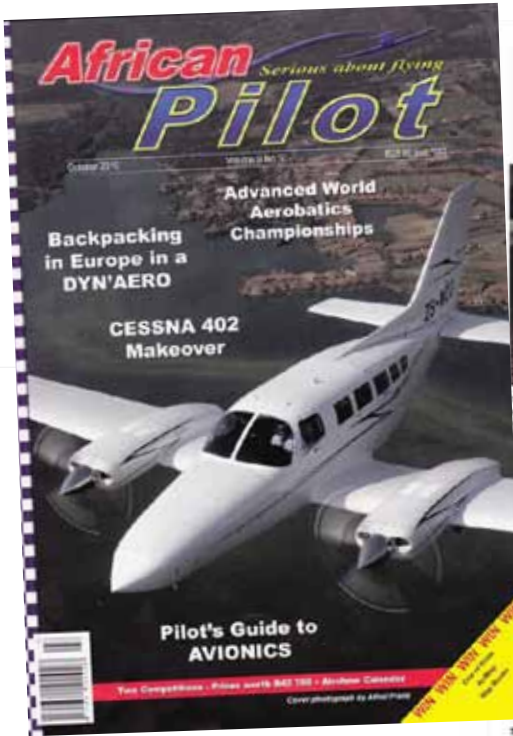




# SAWIA IN THE NEWS

## IN PRINTED PUBLICATIONS:

### AFRICAN PILOT & COSMOPOLITAN MAGAZINE



### Leadership development for WOMEN IN AVIATION

Report by Captain Winger (SA)

An inspiring week took place on 7 and 8 September in Durban for Leadership Development for Women in Aviation Africa held at the Southern Africa Hotel. The conference attracted a significant attendance of women in all spheres of aviation development and were an eye opener for participants as well as their families and colleagues.

The conference, organized by Probyn Knowledge Consulting, provided women in the aviation industry an opportunity to hear from an international speaker line-up in a relaxed and informal setting. The speakers included: Patricia de la Haye, CEO of the Southern African Airline Pilots Association; Debbie and Peta, co-founders of the aviation training and recruitment company, Aviation Skills; and a panel of experts from the aviation industry.

The conference, organized with a focus on networking, provided an opportunity for women in the aviation industry to meet and hear from an international speaker line-up in a relaxed and informal setting. The speakers included: Patricia de la Haye, CEO of the Southern African Airline Pilots Association; Debbie and Peta, co-founders of the aviation training and recruitment company, Aviation Skills; and a panel of experts from the aviation industry.

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PIPIBITTEL Best in Africa

Sonus

Vaurus

# COSMOPOLITAN

1 December is World Aids Day  
**FUN, FEARLESS FEMALE**  
[www.cosmopolitan.co.za](http://www.cosmopolitan.co.za)

## 2010'S SINNERS AND WINNERS

BAD BEHAVIOUR, INSPIRATIONAL ACTS, SLIP-UPS AND TRIUMPHS

## 7 SIGNS HE'S AMAZING IN BED

CHOOSE YOUR FAVORITE: CHARLBI OR TANTU. SAME MAGAZINE, DIFFERENT COVER STARS.

## HOW TO MAKE THE RIGHT CHOICE - IF YOU LOVE TWO MEN

# LOUDLY SOUTH AFRICAN! 42-PAGE MUSIC SPECIAL

# COSMO ROCKS

GUEST-EDITED BY Freshlyground's Zolani Mahola AND STARRING: ★ Die Antwoord ★ Locnville ★ JR

*The power and beauty of 'plus-sized' women*

COVER GIRL AND SPUD: THE MOVIE STAR CHARLBI DEAN KRIEK

WIN A RING FROM SHIMANSKY AND BRAUN PRODUCTS WORTH MORE THAN R189 000

**AISHA MOHAMED, 30, SPM STATION MANAGER**  
 Aisha Mohamed is the youngest station manager (SPM) in the world. She is the first woman of colour to hold the position. She is proud to represent women in business administration and runs her own non-profit organization called Southern African Women in Aviation.

**REFILWE LEDWABA, 31, HELICOPTER PILOT**  
 Refilwe Ledwaba is the first black female helicopter pilot in the South African Police Service. She recently completed a postgraduate diploma in business administration and runs her own non-profit organization called Southern African Women in Aviation.

**MARIANNE SCHWANKHART, 31, PHOTOJOURNALIST**  
 Marianne Schwankhart is an award-winning photojournalist and an avid rock climber - she is the first and only woman to have climbed all three of the Torres del Paine peaks in Chile.

**THEMBI SEETE, 33, SINGER AND ACTRESS**  
 Thembi Seete, former award-winning beauty queen Bambi Seete, reached her solo career after the death of singer Letho Mofokeng. She has since released three successful albums, of which the latest, Muze: My Life, was nominated for 2010 Record of the Year at the South African Music Awards. She has also acted in TV shows such as Yim Yim and Zone 16, and she co-anchors the SABC 2 show after Jita Ntshona.

**WHAT'S THE MOST AWESOME THING YOU'VE EVER DONE?**  
 The big one for me is climbing the highest mountain in the world - I have stood on the summit of something that looks formidable.

**WHAT KEEPS YOU DOING WHAT YOU DO?**  
 It comes naturally. If you're passionate about something, you don't have to try hard - you just do it.

**HOW DO YOU RELAX?**  
 I've recently discovered the value of spa treatments. I always thought they were too girly for me but they're awesome. I'm afraid I may have found myself an expensive new habit!

**YOUR PERSONAL MOTTO:**  
 Let my words speak for me.

**YOUR PERSONAL MOTTO:**  
 Aim for success, not perfection. Favor give up your right to be wrong because then you lose your ability to learn something new.



# SAWIA IN THE NEWS

## ON THE RADIO & TELEVISION:

METRO FM, CAPRICORN FM, SABC RADIO FM & SABC AFRICA: INTERNATIONAL NEWS



CAPRICORN FM is the first commercial radio station in the rural northern province of Limpopo in South Africa. Taking its name from the latitudinal line that cuts across Limpopo (Tropic of Capricorn), the only province in the country with one of the 5 major circles of latitude that mark maps of the earth; began broadcasting from its state-of-the-art studios in Bendor, Polokwane six months after receiving its commercial broadcast license. It was established on the 26th of November 2007 and has been led by the CEO Simphiwe Mdlalose who represents MSG Afrika Media, who together with his partner and former talk show host Given Mkhari were part of consortium that successfully competed against a number of contenders for the license to broadcast in Limpopo. The station's lineup speaks volumes of how Capricorn FM has attracted the "best of the best" in the industry, as they have been able to attract personalities that have been on radio for a number of years with a mix of new and fresh talent in the form of Shandu Madima, Khensani Nyango, Thabiso Kotane and the Ashifa Breakfast trio of Ashifa Shabba, BK and Mpho.



ABOVE: Refilwe Ledwaba (second from left) and Thabile Serepo (extreme right with the fabulous red hat) were invited to represent SAWIA on the Capricorn FM breakfast show to discuss careers in aviation and the challenges women face.



**In 2011, Phemelo Seane was interviewed for METRO FM's TOTAL BLISS show - she spoke about SAWIA and aviation as a viable career for women.**

FOUNDED IN 1986, METRO FM is an iconic brand and the largest National Urban Commercial in South Africa with over 3.1 million listeners., attracting established, empowered, influential and upwardly-mobile urban thought leaders.

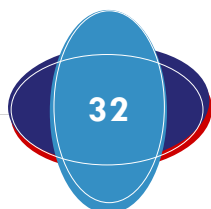
The station started broadcasting in October, 1986 as Radio Metro to compete with the now defunct Radio Bop. Playing a mix of urban contemporary and bubblegum pop Radio Bop was able to reach black audiences in parts of the Transvaal by broadcasting on the AM band from the "independent" bantustan of Bophuthatswana where it was licensed. This prompted the SABC's then white management to launch Radio Metro which was put on air in about six months, from the planning stages.

The station launched the careers of many radio celebrities including Bob Mabena, Shado Twala and Lawrence Dube. Over the years the station has had to compete with new players on the radio dial, including the very competitive Johannesburg radio market where two stations, Khaya FM and YFM, launched in mid/late 1990s have taken away some audience that would have normally gravitated towards Metro FM.



In 2011, Fundi Sithebe, Lerato Nyamande and Peter Kekana were interviewed on SABC Radio where the discussion included women in aviation and the challenges they face and SAWIA was mentioned in a 2011 news coverage on SABC News International.

The South African Broadcasting Corporation (SABC) is the state-owned broadcaster in South Africa and provides 18 radio stations (AM/FM) as well as 3 television broadcasts to the general public.



# SAWIA IN THE NEWS

## AT CONFERENCES, EVENTS & PANEL DISCUSSION:

### THE WITNESS & SANLAM WOMEN'S MONTH BREAKFAST

**THE WITNESS**  
*Women's Month*  
**BREAKFAST**

**Sanlam**  
Thinking ahead

**ukhozi**

**The Witness and Sanlam**  
in collaboration with Umgungundlovu District Municipality and Radio Ukhozi, are proud to present three of our country's top women speakers in a riveting morning program designed to motivate and inspire! **DON'T MISS IT!**

**Come and hear motivational speakers Dorah Sitole, Laura Ilunga and Iris Francis in an interest-packed morning program, compèred by Ingrid Roberts**



**Laura Ilunga**  
South African Airforce Helicopter pilot, Laura is not only attractive but smart and making a success of her career in a man's world! She flies an Ohx chopper as a member of 15 squadron Durban, where she is involved in mountain rescues, off-shore rescues, off shore rescue operations, fire fighting, under sling operations, night specialist operations (NVO), and casualty and medical evacuations.

**Dorah Sitole**  
Dorah was named one of the top 100 most influential people in the print media in the 2009/10 edition of The Annual, 'South Africa' review of the advertising, branding, marketing and media industry in South Africa. She is the Head of Media 24's Developing Markets' Books Division and was formerly the editor of True Love magazine for 23 years. She is an accomplished travel, nutrition and food writer and food stylist, as well as a trained cordon bleu chef. She has appeared on a number of local television cookery programmes and on BBC Food.



**Iris Francis (Below Right)**  
is the daughter of South African struggle veteran Morris Fynn, and an outstanding example of how someone from grassroots level, can achieve success and recognition by sheer hard work. An inspirational speaker with a focus especially on Moral Leadership, she recently addressed the UN Commission on the Status of Women in Africa Forum 2011. Iris has held top positions in business and was named one of Tomorrow's Leaders by Anglo American, and is currently Group Internal Communications and Corporate Social Investment Manager for the McCarthy Group.



**Sinodale Centre, Burger Street**  
**Friday, August 26 • 08h00 for 08h30 to noon**

Tickets: R120 per person includes teas, finger breakfast and goody bags  
Call Mary-Lynn at The Witness on 033 355 1110 • Payment by credit card or EFT

### LEADING SPEAKERS INSPIRE AT WOMEN'S BREAKFAST

27 Aug 2011  
Athandiwe Saba

OVER 150 women from Pietermaritzburg attended an inspirational Women's Month breakfast at the Sinodale Centre yesterday.

The collaboration between The Witness, uMgungundlovu District Municipality and Ukhozi FM brought leading women speakers to inspire their peers.

Laura Ilunga, one of a few women South African Air Force helicopter pilots, spoke of how it has always been difficult for women to succeed in a male-dominated field like aviation. However, she said, technological advances are leaning towards technology that needs less physical power and greater mental capability.

She also spoke of the wives of apartheid veterans who have been forgotten after the death of their husbands. "These women were the backbone of the homes and the strength of the fighters," said Ilunga.

Iris Francis spoke of the importance of humility, leadership and servitude.

Francis, who is the daughter of apartheid stalwart Morris Flynn, spoke about moral and "servant" leadership and how women can be leaders in any environment. "Put yourself first to be effective as a friend, wife and daughter," said Francis.

Keynote speaker Dorah Sitole spoke of how she has balanced her career advancement in a competitive industry with her simple love of cooking.

Sitole worked for True Love magazine for 23 years and was voted one of the top 10 most influential people in print media in 2009/2010.

In her address she quoted Bryan Dyson, CEO of Coca Cola, saying that life is a juggling act of work, family, health, friends and spirit. Work is a rubber ball that, when dropped, will bounce back but the rest are glass.

After a question-and-answer session with the speakers, the guests left the breakfast with gifts, smiles on their faces and uplifted spirits.

**SOURCE:** [www.witness.co.za/index.php?showcontent&global%5B\\_id%5D=67259](http://www.witness.co.za/index.php?showcontent&global%5B_id%5D=67259)

**YOUTUBE SOURCE:** <http://www.youtube.com/watch?v=1dxo8nYQxIs>

*The Witness Women's Day*

The Witness in partnership with Ukhozi and Umgungundlovu District Municipality invite you to hear ...

**DORAH SITHOLE**  
former editor of TRUE LOVE - "Balancing a woman's way to the top"  
Plus! Plus! Captain Laura Ilunga - SANDF Helicopter Pilot  
and Iris Francis - McCarthy Group CSI Manager

- Venue: Sinodale Centre • Date: Friday, 26 August 2011
- Time: 08h00 for 08h30 - noon
- Admission: R120 pp (includes finger breakfast)

**Sanlam** Thinking ahead  
For bookings contact Soonga at The Witness on 033 355 1165. Lucky draws and goody bags.





# SAWIA IN THE NEWS

## CONFERENCES, EVENTS & PANEL DISCUSSION:

WOMEN AVIATORS IN AFRICA CONFERENCE, KENYA 2009 &

THE MUSEUM OF FLIGHT WOMEN AVIATORS FROM AROUND THE GLOBE PANEL DISCUSSION, SEATTLE/USA 2012



**The Stuff Dreams are Made of:  
First Women Aviators in Africa Conference**

The First Women Aviators in Africa Conference was the brainchild of Women in Aviation, International member **Kajuju Laiboni** (WAI #40386). A Kenya native, Laiboni was a student studying aviation near Stockholm, Sweden, when she was sponsored by WAI members **Lia Clark** (WAI #64) and **Trish Beckman** (WAI #17) to go to the 2008 Aviation and Women in Europe Conference, held near Oslo, Norway.

Laiboni says she came away from that conference convinced that she needed to bring together women involved in aviation in Africa, so that they could meet each other and be re-energized. She teamed up with South African Police helicopter pilot **Refilwe Ledwaba** (WAI #419901). By December 2008 a core group was formed and called itself WAFRIC, and some 28 people began to organize the one-day conference.

Held at the PanAfric Hotel in downtown Nairobi, Kenya, the WAFRIC Conference drew 50 people from Kenya, Uganda, South Africa, Nigeria, Mexico, China, Sweden and the United States. Speakers included the first female Air Traffic Controller in East Africa, **Mrs. Chebo**; head of the Kenya Air Traffic Controllers Association, **James Seda**; Amy Laboda, Editor of Aviation for Women magazine; **Maggie Mutahi**, first female Kenyan helicopter pilot in Kenya; **Puleng Cadribe**, first officer for South African Express Airways; and **Sospeter and Mary Mureki**, meteorologists in Kenya.

Outside of the one day of speaker seminars, the attendees visited The Academy for Hidden Talents, an orphanage and school located in a down-trodden area of Nairobi where as many as 600 children are being rehabilitated from experiences in refugee camps, or from losing their families. The group



COURTESY OF REFILWE LEDWABA

NOVEMBER/DECEMBER 2008

AviationForWomen 7



**The 1st WAFRIC's - Women Aviators in Africa Conference: "If you can dream it; You can do it!"**  
Nairobi, Kenya 8th August, 2009

WOMEN AVIATORS IN AFRICA is a registered NPO whose goals of availing information and provide mentorship, guidance, and motivation to girls and women working towards, or aspiring for a career in the aviation sector. Indeed, every day young people throughout Africa watch their dreams go to the drain due to lack of information and resources. In a similar vein, many social norms, and resulting beliefs and attitudes, springing from traditional African culture continue to catalyze the discrimination of women, and to undermine their abilities. This has in turn reinforced a glass ceiling in the professional world that limits girls and women, preventing them from attaining positions of leadership and excellence in all areas of society, more so in technical areas such as aviation.

Women Aviators in Africa held their first introductory dinner at the Lenana Mount Hotel in Nairobi on the 19th of December 2008 and **Refilwe Ledwaba** attended their first conference in Nairobi on the 8th of August 2009. The theme of the conference was: If you can dream it; You can do it!!

SOURCE: [www.afwdigital.org/afw/20091112/?pg=9#pg9](http://www.afwdigital.org/afw/20091112/?pg=9#pg9)



ABOVE: Refilwe Ledwaba represents South Africa on the panel (5<sup>th</sup> from the LEFT).

Aviators in Africa, in 2006 Ledwaba became the first black woman helicopter pilot for the South African Police Service Air Wing. **Harumi Sato (Japan)** – Sato is a flight instructor and has flown as a commercial pilot in the United States and as an airline pilot in Japan. **Fran West (Australia)** – West is the first woman pilot to circumnavigate mainland Australia in a light aircraft. She is also an author, photographer and motivational speaker. **Jennie Steldt (United States)** – Capt. Steldt is a United States Air Force pilot who flew the first C-17 Globemaster airdrop on Antarctica. **Karina Miranda (Chile)** – Lt. Miranda is the first woman to fly for the Chilean Air Force. SOURCES: [www.museumofflight.org/press/march-events-museum-flight-1](http://www.museumofflight.org/press/march-events-museum-flight-1) AND [www.museumofflight.org/event/women-fly-panel-women-flyers-around-world](http://www.museumofflight.org/event/women-fly-panel-women-flyers-around-world)

### WOMEN FLY! PANEL: WOMEN FLYERS FROM AROUND THE WORLD

**TIME:** Saturday, March 6, 2010 - 2:00pm - 3:30pm

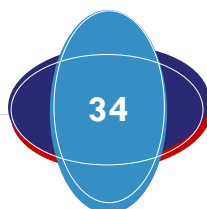
**EVENT TYPE:** Public Program

**LOCATION:** William M. Allen Theater, Seattle

Women fly Programme was hosted by the Museum of Flight in Seattle USA. The aim was to bring women from across the continent to discuss aviation. Students from the Seattle area were invited to attend the sessions. Refilwe represented South Africa on the panel. Truly an inspiring session!

#### INVITED PANELISTS INCLUDE:

**Michelle Bassanesi (Italy)** – Bassanesi is the founder of Aviation and Women in Europe. Bassanesi is a flight instructor with experience flying paragliders, hang gliders and airplanes. **Kajuju Laiboni (Kenya)** - Co-founder of Women Aviators in Africa. **Refilwe Ledwaba (South Africa)** – A co-founder of Women



# SAWIA IN THE NEWS

## CONFERENCES, EVENTS & PANEL DISCUSSION:

### THE MUSEUM OF FLIGHT, SEATTLE/USA



### Collections

Come and see the largest and most comprehensive air and space collections in the United States

[>> More](#)

### Education

- At the Museum
- At Your Site
- 2011 Education Guide
- Family Programs

[Learn About Education Programs](#)

### Support

- Give a Donation
- Membership
- Volunteer
- Corporate Support
- Planned Giving

[Support the Museum](#)

### Visitor Information

- Directions
- Calendar of Events
- Group Tours
- Book an Event
- Flight Activities

[Visit the Museum](#)

**ABOUT THE MUSEUM**  
 "To be the foremost educational air and space museum in the world."

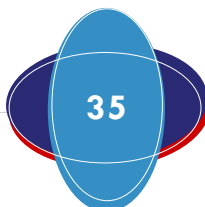
**MISSION STATEMENT**  
 The Museum of Flight exists to acquire, preserve, and exhibit historically significant air and space artifacts, which provide a foundation for scholarly research, and lifelong learning programs that inspire an interest in and understanding of science, technology, and the humanities

**PURPOSE**  
 The objectives of The Museum of Flight's mission are met with the following Statement of Purpose. Artifacts are acquired by way of an adopted policy that establishes priorities, restricts collecting to specific museum needs, and stresses non-conditional gifts. Artifacts are authentically restored to high museum standards and carefully conserved, whether stored or exhibited, to assure perpetuation. The Museum of Flight Foundation's original objective to preserve Pacific Northwest aviation artifacts and documents has naturally expanded to include aerospace artifacts of great national and international importance.  
 Exhibits are artifact-based for credibility, professionally researched and designed according to a carefully thought-out comprehensive storyline, based on the central theme of "mankind's dream of flying." This theme centers on the evolution of air and space

technology and its impact on our world, augmented by highlights of the Pacific Northwest region's contribution. Exhibits communicate the rich story of flight in several levels of detail to satisfy the varying interests of the general public, as well as the scholar.

**HISTORY**  
 In 1964 a small group of aviation enthusiasts realized that important artifacts representing the evolution of flight were being lost or destroyed at an incredible rate. To aid in the preservation of these artifacts, the Pacific Northwest Aviation Historical Foundation was established with the twin goals of saving significant aircraft and related artifacts and educating the public in terms of their importance.

It soon became clear that a place to store and exhibit these artifacts was needed, and in 1965 the first official Museum of Flight exhibits were put on display in a 10,000 square foot space at the Seattle Center, location of the 1962 World's Fair. The concept for the Museum complex began to jell in 1975 when the Port of Seattle leased the land on which the Red Barn® now sits to the Museum for 99 years. The Red Barn®, the birthplace of The Boeing Company, was saved from demolition on its original location on the Duwamish River, and floated by river barge to its current location. It was restored in 1983 and became the first permanent location for the Museum. The Red Barn was eventually joined by the Great Gallery in 1987, the Library and Archives Building in 2002 and the J. Elroy McCaw Personal Courage Wing and Airpark in 2004. For more information: [www.museumofflight.org](http://www.museumofflight.org)







## A 'ROSE' MADE OF GALAXIES

This animation shows the Andromeda galaxy, first as seen in visible light by the National Optical Astronomy Observatory, then as seen in infrared by NASA's Spitzer Space Telescope.

The visible-light image highlights the galaxy's population of about one trillion stars. The stars are so crammed into its core that this region blazes with bright starlight.

In contrast, the false-colored Spitzer view reveals red waves of dust against a more tranquil sea of blue stars. The dust lanes can be seen twirling all the way into the galaxy's center. This dust is warmed by young stars and shines at infrared wavelengths, which are represented in red. The blue color signifies shorter-wavelength infrared light primarily from older stars.

The Andromeda galaxy, also known affectionately by astronomers as Messier 31, is located 2.5 million light-years away in the constellation Andromeda. It is the closest major galaxy to the Milky Way, making it the ideal specimen for carefully examining the nature of galaxies. On a clear, dark night, the galaxy can be spotted with the naked eye as a fuzzy blob.

Andromeda's entire disk spans about 260,000 light-years, which means that a light beam would take 260,000 years to travel from one end of the galaxy to the other. By comparison, the Milky Way is about 100,000 light-years across. When viewed from Earth, Andromeda occupies a portion of the sky equivalent to seven full moons.

Because this galaxy is so large, the infrared images had to be stitched together out of about 3,000 separate Spitzer exposures. The light detected by Spitzer's infrared array camera at 3.6 and 4.5 microns is sensitive mostly to starlight and is shown in blue and green, respectively. The 8-micron light shows warm dust and is shown in red. The contribution from starlight has been subtracted from the 8-micron image to better highlight the dust structures.



# SAWIA MEMBERS IN THE NEWS

## CAPTAIN LAURA ILUNGA: SANDF AVIATRIX PIONEER

SOUTH AFRICAN NATIONAL DEFENCE FORCE'S SECOND BLACK WOMAN HELICOPTER PILOT CAPTAIN

**“The women of today are the thoughts of their mothers and grandmothers, embodied and made alive. They are active, capable, determined and bound to win. They have one thousand generations at the back of them...millions of women, dead and gone are speaking through us today.”** MATILDA JOSLYN GAGE FROM THE NATIONAL CITIZEN AND BALLOT BOX, 1889 — A NEWSPAPER SHE FOUNDED AND EDITED.



EXTREME LEFT: Lieutenant Olwethu Soga, Captain Tarryn Bind and Captain Laura Ilunga stand proudly in front of an Oryx at DurbanSection 0s air force base. The trio made history by becoming the first all-female crew on an air force helicopter flight when they made a 30-minute circuit of Durban. Picture: Gcina Ndwalane.

LEFT: Captain Laura Ilunga regularly flies Jacob Zuma, President of South Africa and Chief of the South African National Defence Force.

UPLIFTING WOMEN'S DAY today are four women demonstrating the equal competence of their sex in defence and the ministry.

Yesterday, three women of the South African Air Force made history when they became the first women-only crew of a helicopter flight.

The flight by pilot Captain Tarryn Bind, co-pilot Captain Laura Ilunga and flight engineer Lieutenant Olwethu Soga, of 15 Squadron, was a first in the 91-year history of the second-oldest air force in the world.

The trio were proud and particularly pleased the event had taken place in time for Women's Day and in Women's Month.

The Oryx flight took off from Durban's air force base, near the old Durban International airport, and made a 30-minute circuit of Durban.

The air force's theme for yesterday was: "Strong women building a strong SAAF in defence and service of the nation".

Bind, 27, originally from Joburg, is the first woman to qualify as an Oryx commander at 15 Squadron; she is only the second woman to achieve this in SAAF history.

"We are all professionals and we were excited. It was really quite nice having ladies only in the helicopter," she said of yesterday's flight.

It's a far cry from her childhood dream of being a flight attendant and another step towards her dream of becoming an astronaut.

Ilunga, 26, described being part of history as "overdue but great". She joined the SAAF in 2004 as a pupil pilot and completed the grueling basic training and officer courses. She then studied at the military academy and got her BMil: Defence and Technology Management through Stellenbosch University, majoring in aeronautical science. She got her wings at the central flying school, Langebaanweg, in 2007.

She said: "We need more women in the air force," adding that she was part of an NGO, Southern Africa Women in Aviation and Aerospace Industry, which aimed to get bursaries for young women who wanted to be in the force.

Soga, 28, of Butterworth, in the Eastern Cape, qualified in 2008 as the first and only woman flight engineer in the SAAF.

Last year she qualified to take leadership as 16 Squadron technical officer – the person in charge of all technical aspects of running the squadron.

Her flying tasks have included night flying, mountain flying, formation flying, night specialist operations, sea rescues, mountain rescues, casualty evacuation, gunnery war simulation exercises, and firefighting and cargo-slinging.

August 9 2011 at 04:19pm by Lungelo Mkamba, Bronwyn Fourie  
FULL ARTICLE SOURCE: [www.iol.co.za/mercury/meet-our-very-own-oryx-top-guns-1.1114318?of=inmsa.Article-PrintPageLayout.ot](http://www.iol.co.za/mercury/meet-our-very-own-oryx-top-guns-1.1114318?of=inmsa.Article-PrintPageLayout.ot)





# SAWIA MEMBERS IN THE NEWS

## CAPTAIN REFILWE LEDWABA: SAPS AVIATRIX PIONEER

SOUTH AFRICAN POLICE SERVICE'S FIRST BLACK WOMAN AIR WING HELICOPTER PILOT CAPTAIN

# The sky is no limit



WOMEN IN AVIATION

Captain Refilwe Ledwaba

Writers: Xoliswa Zulu and Mbulelo Baloyi

When South African Police Service (SAPS) Air Wing helicopter pilot, Captain Refilwe Ledwaba, boarded her first British Airways/Comair flight to Cape Town in 1996 to pursue a Bachelor of Science Degree in Biochemistry and Microbiology, her love for flying took off.

"I heard on the public address system that one of the pilots was female. And that ignited my initial interest in aviation," says Ledwaba, who is based at the KwaZulu-Natal Air Wing division. Like most young girls growing up in Lenyenye township outside Tzaneen in Limpopo in the late 1980s, Ledwaba believed her career options were somewhat limited. "Teachers, nurses or doctors were all we were really exposed to," she says. Aviation was certainly way off the radar and hence she went for a more traditional approach when choosing a career.

She never thought that one day she would be charting new territory in aviation and become a pilot. Today, she provides air support for law-enforcement missions, which include, among other things, crime prevention, investigation operations, rapid response to crime call-outs, anti-narcotic operations, border patrols and search-and-rescue operations.

"When I completed my science degree and did not have enough money to go to medical school as per the wish of my parents, I saw that as an opportunity to explore my interest in aviation. I joined Comair and later SAA as a cabin attendant and used the money to kick-start my flying career. I was also fortunate to be selected as the first group of the SAPS' cadets to be trained as pilots," she says.

Being in a male-dominated industry has never been easy, but Ledwaba has taken it in her stride. Her motto, "Let my flying speak for me", has helped her tackle various obstacles that she has been faced with. "When I initially joined the SAPS, it was challenging due to gender stereotyping," she says.

"However, there were positive people to pull me through. I also learned early in my career that it is a waste of time to try and change people's minds about my abilities," she says.

In 2009, after attending a few international aviation conferences and being invited as one of the panelists in the International Women Fly Programme in the United States of America, Ledwaba (together with a dynamic team of aviators, professionals and aviation enthusiasts) founded a non-profit organisation, Southern African Women in Aviation and Aerospace Industry (SAWIA).

SAWIA is dedicated to the empowerment of women in the aviation and aerospace industry in the Southern African Development Community region and the rest of Africa. Its vision is "to make aviation a viable and accessible career choice for women".

Through the organisation, some scholarships have been established. SAWIA also initiated the Girl Fly Programme in Africa – an educational and information programme for school students who have an interest in aviation and aerospace industries.

The programme is designed to expose young women to a world of opportunities while highlighting the achievement of women in aviation. The programme also focuses on community outreach programmes, skills development, Mathematics and Science support programmes, career guidance in aviation and aerospace and mentorship.

Ledwaba has also completed a post-graduate degree in Business Administration at the University of Cape Town's Graduate School of Business and is currently busy with her Master's in Development Management and Public Policy at Wits University's Graduate School of Public and Development Management.

Ledwaba hopes that the skills she is learning will assist her in establishing a firm foundation for SAWIA, to become an organisation that makes a valuable contribution to the transformation of Africa.

For Ledwaba, being a pilot is not just a career, but a lifestyle. She says that if women want to get into the industry, they need to be passionate about it. "Flying helicopters for the police is the best flying I have ever found. It is varied and wearing a helmet and flying suit is a laugh," she says.

Having the title of being the first African person to fly helicopters for the SAPS and the first black female to pilot and command helicopters in the police service would be daunting for many, but for Ledwaba, it is the sky's the limit.

"Working in the SAPS, I am able to do what I love most: my flying and serving the community," she says. "I am not able to describe the feeling one gets when a suspect is arrested or when we rescue people in some remote area. The feeling is truly an amazing job and I feel privileged and proud to belong to a family of men and women in blue."



In June 2012 Refilwe was nominated by CEO Communications (Pty) Ltd - Celebrating Excellence in Organisations - for the South Africa's Most Influential Women in Business and Government award.

SOURCE: [www.ceomag.co.za/WebsiteFiles/151/File/MIW2012/List%20of%20Finalists.jpg](http://www.ceomag.co.za/WebsiteFiles/151/File/MIW2012/List%20of%20Finalists.jpg)



In May 2011, Refilwe was profiled on eTV's South African Heroes show.

YOUTUBE SOURCE: <http://www.youtube.com/watch?v=oq0l2ekGdWg>

Public Sector Manager • August 2011



In May 2011, Refilwe was interviewed and featured on M-Net's Carte Blanche on the Hero Cops show.

SOURCE: <http://beta.mnet.co.za/carteblanche/Article.aspx?id=4347&Showid=1>



# SAWIA MEMBERS IN THE NEWS

**KATE ESTERHUYSE: DIRECTOR OF TRAINING & CHIEF FLYING INSTRUCTOR @ STARLITE AVIATION GROUP**

THE FIRST WOMAN AVIATION INSTRUCTOR TO BE RATED ON THE R66 HELICOPTER



## MOSSEL BAY INTERNATIONAL HELICOPTER TRAINING ACADEMY

WITH A LONG HISTORY and rich tradition, Starlite Training has proudly operated out of its base at Virginia Airport since 2003. With a commitment to continuously push boundaries and improve the service offered at the Starlite International Training Academy, the Group decided to relocate its primary training base to Mossel Bay in June 2011. Situated within the general flying area, and at the Mossel bay Air Field, this facility offers perfect terrain and all-year-round good weather to increase the value-add for future pilots attending the facility, as well as extend the nationwide reach further into the Western Cape.

Months of arduous pre-planning and implementation saw the changeover as a seamless process for existing students, while all new students are enjoying the benefits of the new facility and improved Starlite International Training Academy product.

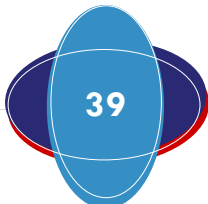
Students who have already completed their training in Mossel Bay include the South African Air Force, Botswana Police Air Wing and numerous

civilian students. Qualifications have ranged from PPL, CPL, night ratings, instrument ratings, turbine ratings and instructor ratings. Currently training in Mossel Bay are the Namibian Police Air Wing, Botswana Department of Tertiary Education, Botswana Defence Force and Kenya Police Air Wing as well as civilian students.

The Starlite International Training Academy in Mossel Bay has been developed under the vision and leadership of Kate Esterhuysen, Director of Training and Chief Flying Instructor [view instructor profile]. From June 2012, Matt Hayes takes over as Chief Flying Instructor in Mossel Bay, and Kate Esterhuysen returns to Durban to secure contracts for the Academy and instruct at Starlite's Virginia base.

Starlite Training Academy will continue to train helicopter aircrew, maintenance personnel and operational support staff to a level of competence commensurate with leading military and aviation safety standards

SOURCE: <http://www.starliteaviation.co.za/training/mossel-bay-training-academy>





# SAWIA MEMBERS IN THE NEWS

## CAPTAIN MARGARET VILJOEN: INSPIRATIONAL AVIATRIX LEADER

KULULA PILOT & AIRLINE PILOTS ASSOCIATION OF SA EXECUTIVE COMMITTEE MEMBER

www.kulula.com



www.alpa.co.za



### LASERS ENDANGER SA PLANES: CAPTAIN MARGARET VILJOEN REPORTS INCIDENTS

PILOTS WHO WERE preparing to land a passenger jet on Sunday evening had to look away from the runway and rely only on their instruments after people on the ground pointed lasers at the plane.

This is one of over 70 incidents over the past 10 months in which laser beams have been used by people on the ground to illuminate passenger jets.

The beams can blind pilots and put the lives of passengers in danger, said Captain Margaret Viljoen, an executive committee member of the Airline Pilots Association of South Africa (ALPA) on Monday.

ALPA (www.alpa.co.za) is the only body in South Africa catering specifically for the needs and protection of pilots and flight engineers and membership accommodates airline, corporate, charter and freelance aviators. ALPA represents about 2 000 pilots.

Viljoen was the victim of this dangerous new trend when she was piloting a Kulula flight (MN 455) from Lanseria airport in Johannesburg to Cape Town on Sunday night.

#### GREEN LASER BEAMS

Viljoen and her co-pilot were at about 800 feet (about 233 metres) and were ready to land when they noticed a green laser.

"The person with the laser looked for us in the air. We switched off all the outside lights so that he couldn't see us," said Viljoen.

"My first officer moments later saw four laser beams. They found us when we came close to the runway.

"We were prepared and didn't look outside at all. We only used our instruments to land."

Viljoen says the problem with laser beams is that if they are shone in pilots' eyes they can temporarily blind them to such an extent that they can't see where to land. Pilots can also sustain permanent eye damage.

In an incident at Lanseria, two pilots were blinded so badly that after landing they couldn't see the man who signalled where to park the plane.

#### ARREST

Viljoen said pilots in South Africa have been lucky so far in that no one has sustained permanent eye damage and that there have been no accidents related to this.

The worst that has happened is that pilots have walked around with blurred vision for a few hours to a few days.

According to Viljoen, this new danger started about a year-and-a-half ago, but she started keeping a record of the incidents 10 months ago. The laser was presumably used for pointing out stars.

Viljoen said a Durban man was arrested last year for pointing a laser at a police helicopter.

"If people aren't stopped, it could lead to serious incidents," she said.

by Hilda Fourie, Beeld

SOURCES: <http://www.news24.com/SouthAfrica/News/Lasers-endanger-SA-planes-20110301> AND <http://www.alpa.co.za/communication/news/latest/59-captain-margie-viljoen-reports-laser-incident.html>



# SAWIA MEMBERS IN THE NEWS

## SIBONGILE SAMBO: AVIATION PIONEER AND ENTREPRENEUR

SRS AVIATION, SOUTH AFRICA'S 1<sup>ST</sup> 100% BLACK WOMAN-OWNED & OPERATED AIRBORNE SERVICES BUSINESS



### SOUTH AFRICA'S SIBONGILE SAMBO AND SRS AVIATION

Published: June 01, 2010. WHARTON BUSINESS SCHOOL

SIBONGILE SAMBO, FOUNDER and CEO of SRS Aviation, first attempted to break into aviation as a flight attendant but was always limited by the height minimum most airlines required. Starting in 1997, Sambo spent seven years in human resources, working for SA Telkom and DeBeers, until the time was ripe for her entry into the aviation industry. In 2003 the post-apartheid state passed the Black Economic Empowerment Act, enabling people from previously disadvantaged backgrounds to enter and participate in economic life as entrepreneurs. Through the Women's Economic Empowerment Policy, which aimed to economically enfranchise South Africa's poorest group -- its women -- Sambo felt ready to break out not only from human resources, but also from life as an employee.

#### TAKING OFF

In 2004, Sambo invited her sister to be a partner in her aviation firm. Investing in aircraft, however, requires tremendous capital, to which neither Sambo nor her sister had access. Sambo did not take on any formal debt to finance her project; rather, she relied on her family. Sambo's mother and aunt lent her the money she needed for SRS to take off. Still, with such limited funds and no experience, she was not inclined to buy or lease her own planes. Instead, her small family loan enabled her to broker contracts between aviation services and those with air-transport needs.

SRS found its first opportunity with the government, which invited aviation firms to bid on a contract for cargo transport. The contract was awarded as a joint venture between SRS and another firm. Although a collaborative project offered a golden opportunity to wade into the industry, the other firm soon withdrew, leaving Sambo to learn the contracting process on her own. "It was very challenging," she says. "I had to learn the different background operational needs before a flight. I had to call around and find

out from different people what I needed to do. Even the clients themselves assisted me because they had run [similar] contracts before."

Neither the industry nor her company could accommodate a slow trial-and-error learning strategy. "I had to spend time with different people who were willing to teach me how to run this business," Sambo notes. "I had to ask around in the industry. Some contractors didn't want to help, but others were more than willing to assist me. It was a matter of approaching people." These informal teachers helped Sambo learn the details of organizing a flight -- from giving her leads, to telling her which clearances she needed and where and how to get them, to teaching her how much fuel a particular type of aircraft needed.

#### FINDING A NICHE

Most of SRS's contracts involved moving cargo, which, Sambo says, returned a greater profit in a shorter time, and with less of a headache than moving people. As a result, SRS did not generally encounter competition with commercial airlines; rather, their models complemented one another, as SRS employed standing aircraft that would otherwise absorb money. However, SRS did contract to transport people when returns were high enough: A small percentage of the business was contracted with exclusive travelers, who chartered SRS's private jets rather than purchasing a first-class seat with a commercial airline. Since the economic downturn in 2007, however, SRS has lost some of its business chartering private jets, as people opted more often for first-class tickets. Cargo, on the other hand, remained relatively stable, experiencing only a minor decline in 2007, with contracts resuming normal levels in 2008.

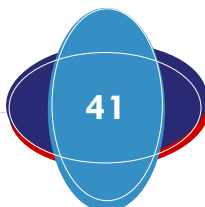
After a year of brokering flights, Sambo's entrepreneurial spirit emerged again, and so began the first steps of her company's growth. SRS managed to accumulate capital early on by maintaining very low overhead costs, with only four employees and no office space. Sambo applied for licenses to become a full operator in the industry, which would authorize SRS to contract and pilot its own flights, promoting it from a go-between to a true player in the game. As a charter company, SRS had not been responsible for flights themselves, but was concerned mainly with marketing, securing clients and negotiating with licensed airlines and, ultimately, applying a mark-up and handing off the client. With the proper licenses, Sambo's company leased aircraft under its own title and bore responsibility for all the logistical arrangements, from managing fuel to pilots' learners' permits.

#### YOUNG AND INNOVATIVE

Although SRS made a stunning entry into the industry, challenges waited behind the gates as well. "Aviation is a very community-based type of industry. People know each other globally, and penetrating the industry is not very easy," says Sambo. "Most people saw [my entry] as very awkward, and initially, people never took me seriously. I had to prove myself more than 10 times." Ultimately, Sambo got her message across: "I told them I'm here, I'm here to stay, I'm here to grow this business, and I'm here to make changes as well, because I'm young, I'm very innovative and I want to bring a new spice into the industry."

In addition, the aviation industry did not have many young, female or black entrepreneurs. Sambo drew on her strength. "My background gives me that platform to become a strong woman. I started living away from my parents from the age of five or six, which gave me a lot of independence. For me, managing in an environment that is very male dominated just comes naturally. It comes from a confidence and willingness to learn, but also from the willingness to make mistakes, learn from them and move on."

SOURCE: <http://knowledge.wharton.upenn.edu/10000women/article.cfm?articleid=6153>







## TRANSIT OF VENUS ACROSS OUR SUN: A RARE PLANETARY SPECTACLE JUNE 6, 2012

HONOLULU - None of us will likely see Venus pass, like a moving beauty spot, across the face of the sun again.

From the US to South Korea, people around the world turned their attention to the daytime sky on Tuesday and early Wednesday in Asia to make sure they caught the rare sight of the transit of Venus. The next one won't be for another 105 years.

For astronomers, the transit wasn't just a rare planetary spectacle. It was also one of those events they hoped would spark curiosity about the universe and our place in it.

While astronomers used the latest technology to document the transit, American astronaut Don Pettit aboard the International Space Station was planning to take photos of the event and post them online.

Venus, which is extremely hot, is one of Earth's two neighbours and is so close in size to our planet that scientists at times call them near-twins. During the transit, it will appear as a small dot.

This will be the seventh transit visible since German astronomer Johannes Kepler first predicted the phenomenon in the 17th century. Because of the shape and speed of Venus' orbit around the sun and its relationship to Earth's annual trip, transits occur in pairs separated by more than a century...SAPA-AP

**FULL ARTICLE:** <http://www.iol.co.za/scitech/science/space/venus-transit-a-rare-planetary-spectacle-1.1312720#.T89VjJKbUnE>

**IMAGE CREDIT:** NASA

**IMAGE SOURCE:** [http://i.dailymail.co.uk/1/pix/2012/06/06/article-2155140-137878CE000005DC-425\\_964x939.jpg](http://i.dailymail.co.uk/1/pix/2012/06/06/article-2155140-137878CE000005DC-425_964x939.jpg)



# SPONSOR PROFILES

1 TIME AIRLINE / [www.1timeholdings.co.za](http://www.1timeholdings.co.za) or [www.1time.co.za](http://www.1time.co.za)

**“It was more curiosity. I wanted something different...I grew up interested in aircrafts, specifically, and looked at starting a business in aviation...you cannot just sit and wait for opportunities to come to you – you need to go out, network with relevant people, look where the opportunities are and fit yourself into that.”** SIBONGILE SAMBO - THE

FIRST 100% BLACK WOMAN-OWNED AVIATION COMPANY IN SOUTH AFRICA



## INTRODUCTION

1time Airline is the second largest low-fare private airline in South Africa (by domestic market share). It offers tickets at low prices but only renders services on selected routes where it can make a profit. The marketing slogan of 1time Airline is: "more nice, less price". This encapsulates its business philosophy of a more pleasant flying experience for the customer at a lower price. 1time Airline has ten aircraft and currently offers about 33 flights per day on eight domestic routes. As far as 1time Airline is aware, it has the lowest cost per available seat-kilometre on its chosen domestic routes in South Africa.

## HOW IT ALL STARTED

1time Holdings - a diversified aviation group - was listed on the Johannesburg Altex Stock Exchange on the 14th of August 2007. The company has evolved in leaps and bounds since its inception in 2004 and is the 100% shareholder in 1time Airline, 1time Charters, Aeronexus Technical and Aeronexus Corporate.

1time's story is a story of courage of 4 men and then a 5th who believed in them, and all this started with a dream which realised into a reality.

Once in a while the time is just right for a good idea to manifest as a reality. The environment is ripe for a new venture to seed, take root and grow. Enterprising people of vision, if they are alert and hungry, see this potential. They act with courage and ingenuity, plant the seed, nurture it and grow it into an enterprise over which other people exclaim: "Why didn't I think of that first?"

This is what it was like for Gavin Harrison, Glenn Orsmond, Rodney James, Sven Petersen and Michael Kaminski - five entrepreneurial men with a wealth of experience in the aviation industry and a hunger to do things their way: with no nonsense integrity.

In 2003, the South African Rand was stronger than it had been for a long time; aircraft acquisition costs were still low in the aftermath of the 9/11 terror attacks; and research proved that low fare, no frills, short haul airlines had

been the only successful business model for a number of years, while premium class short haul and domestic airlines were fighting for survival.

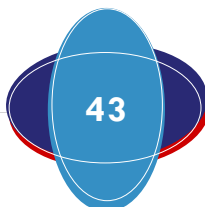
South Africa's domestic airline market carried 7.5 million passengers each year. This market was clearly over-traded with high cost seats and therefore, high airfares. The time for a sustainable, real low fare airline could not have been better. In short, South Africa's first real domestic low fare airline was beckoning to be born.

The perfect foundation was already in place. Through their aviation holding company, Afrisource Holdings, the four entrepreneurs owned Aeronexus - an aviation company that offers aircraft management, crewing and aircraft maintenance services. They realised that this would be an ideal launch pad for setting up an airline.

The team got to work and produced a business plan, that critical document necessary to raise the balance of the funding required to realise their dream. Businessmen were approached and the 50% balance of funding was very quickly taken up. Once again, perfection struck as Mogwele Investments, a black empowerment partner, took 20%, and an IT group the remaining 30%. Afrisource Holdings retained 50%. The business model was thus strengthened by diversity and IT skills - aspects without which it is virtually impossible for a modern business to succeed. The availability of key airline executives and managers, with relevant experience, to set up and run the airline, was a huge bonus.

On Thursday, 22 January 2004, 1time Airline opened for ticket sales through the Internet, its service centre, and its ticket sales counters at Johannesburg and Cape Town International Airports. 1time proudly commenced operations on Wednesday, 25 February 2004, with three return flights a day on the Johannesburg / Cape Town route. In the time since, the airline has grown from strength to strength, expanding on their initial frequency and incorporating more and more destinations.

The name 1time, is a reflection of the South African soul of the company. In South Africa, the phrase "one time!" is a colloquialism meaning "for real!"



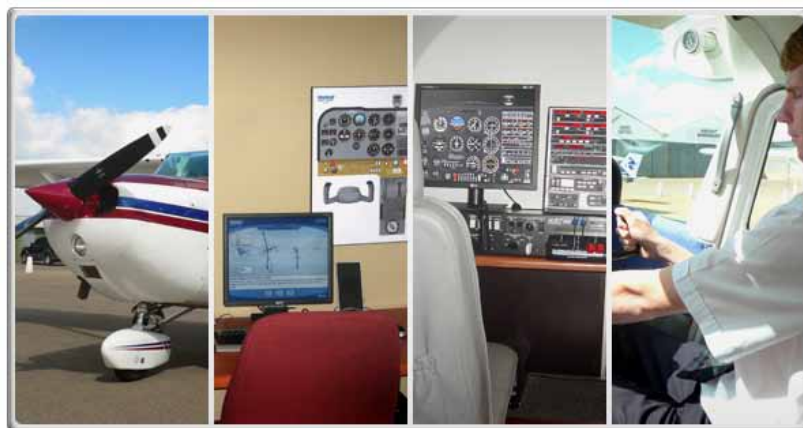


# SPONSOR PROFILES

FLIGHT TRAINING SERVICES/ [www.fts.co.za](http://www.fts.co.za)



FLIGHT TRAINING SERVICES (FTS) operates out of Grand Central Airport, based in Midrand, Gauteng. We have an impressive fleet of over 20 aircraft which include Cessna 172's, Piper P28A's, 172RG and Piper Twin Comanche. These aircrafts are all used for basic and advanced instruction. We offer a comprehensive, state of the art, training service starting from entry level Private Pilot Licence (PPL) through to Airline Transport Pilot (ATP) licence.



## SERVICES OFFERED

**COMPUTER BASED TRAINING:** We have comprehensive software training programs from the United Kingdom (Oxford) that, together with our well developed course programs will provide the learner pilot with the most thorough theoretical training available in South Africa.

**STUDENT PILOT LICENSE:** This is the first formal qualification required for the progression from dual flight (flying with an instructor) to flying solo. Your first solo flight will be a memory that will remain vividly with you forever, and it essentially signifies your transition to the privileged realm of aviators.

**PRIVATE PILOT LICENCE:** This qualification allows you to be Pilot in Command (PIC) of an aircraft and to carry passengers. This enables you to make all decisions pertaining to planning and executing a flight, during daylight hours, and in clear weather.

**NIGHT RATING:** The next step in your pilot training, and one that improves your ability to fly in reduced visibility, is to obtain a night rating. This allows you to conduct or continue a flight during the hours of darkness and the benefit is obvious in terms of being less restricted when planning and executing your particular flight.

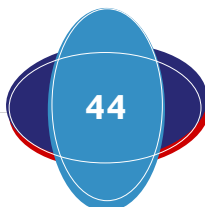
**INSTRUMENT RATING:** For the aspiring professional pilot, or for the dedicated Private Pilot, the instrument rating takes you into the world of advanced flight, giving you the capability of flying, navigating and landing in weather conditions that would keep the birds on the ground.

**COMMERCIAL PILOT LICENCE (CPL):** This is the rating you will require to enter the commercial and airline world of aviation. As a commercial pilot you may fly as pilot in command, for remuneration, any aircraft certified for single pilot operations.

**AIRLINE TRANSPORT PILOT LICENCE (ATPL)** FTS can provide the necessary preparation, from an experienced multi-crew perspective. This normally entails refreshing the instrument principles that should be quite familiar at this stage, and producing a comprehensive theoretical scenario that covers all aspects of command preparation when conducting flight planning and execution.

**MULTI ENGINE RATING:** Flying a multi engine aircraft is a cornerstone of being a Commercial Pilot, and ensures the new CPL individual is as marketable as possible in the General Aviation market place.

**INSTRUCTOR'S RATING:** This rating allows the commercially rated pilot to act as an instructor on the aircraft types appropriately endorsed. Some candidates find this a useful method of gaining experience, although it should be considered as a long term commitment to the aviation industry. FTS have a long relationship with the SA-CAA in terms of having created and assessed Instructor examinations for many years. Similarly we have trained and flight tested many flight instructors whom are currently active in both General Aviation and the Airline industry. The theory aspects of this rating are competently covered by the team at FTS with arguably the best qualified individuals in South Africa.



# SPONSOR PROFILES

K5 AVIATION / [www.k5aviation.com](http://www.k5aviation.com)



Executive Travel >



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**K5 AVIATION** offers charter services for passenger travel and freight requirements and is one of only a handful of South African aviation companies with International and Domestic Licences for all category aircraft and helicopters - this means whatever your aviation requirements, we can meet them.

Our primary objective is to provide safe and reliable non-scheduled air transport throughout Africa whilst also providing our passengers with the luxury and comfort they desire. Adding a unique blend of African hospitality and culture, **K5 AVIATION** is a truly representative African company with an internationally set operating standard.

## ABOUT US - THE COMPANY

**K5 AVIATION** is one of Africa's leading General Aviation Companies specialising in Charter Operations and is one of only a handful of South African companies with International and Domestic Licences for all category aircraft and helicopters.

Offering charter services for passenger travel and freight requirements, **K5**'s primary objective is to provide safe and reliable non-scheduled air transport. Adding a unique blend of African hospitality and culture, **K5 AVIATION** is a truly representative African company with an internationally set operating standard. As a result, we are in a prime position to achieve what is stated in our motto, which is quite simply: **K5 AVIATION...EXPERIENCE AFRICA.**

## ABOUT US - SOCIAL DEVELOPMENT

**K5 AVIATION** is a company serving two functions: Firstly, to be a leading safe and reliable Charter Operator. Secondly, to promote aviation in Africa by providing a platform for affluent aviation enthusiasts to develop and progress within this very selective aviation fraternity.

The latter is personal project for and led by the Managing Director, Ernest Kekana, a former member of the Aviation Training and Development Foundation in South Africa. Ernest regularly visits schools, especially in the outlying areas in South Africa where students who excel in Mathematics and Science are encouraged to consider a career in aviation - whether it be flying, air traffic control, engineering or management.

Ernest has taken **K5 AVIATION** one step further and makes provision for such candidates to further their aviation careers. Take Fundi and Castro (who feature in our Key Personal page), who are aspiring Commercial and Airline Pilot's themselves and will have the opportunity to fly for **K5 AVIATION** once suitably qualified.

Another prime candidate is Rinki Brown who is participating in **K5 AVIATION**'s Development Post Initiative, where she is exposed to the day-to-day operations of the company as an Office Administrator. Rinki is a trained flight attendant looking for a career in the skies. Until this opportunity arises from any one of Africa's or possibly the World's leading airlines, Rinki also utilises her flight attendant skills and assists with passenger handling.

## CONTRACTS

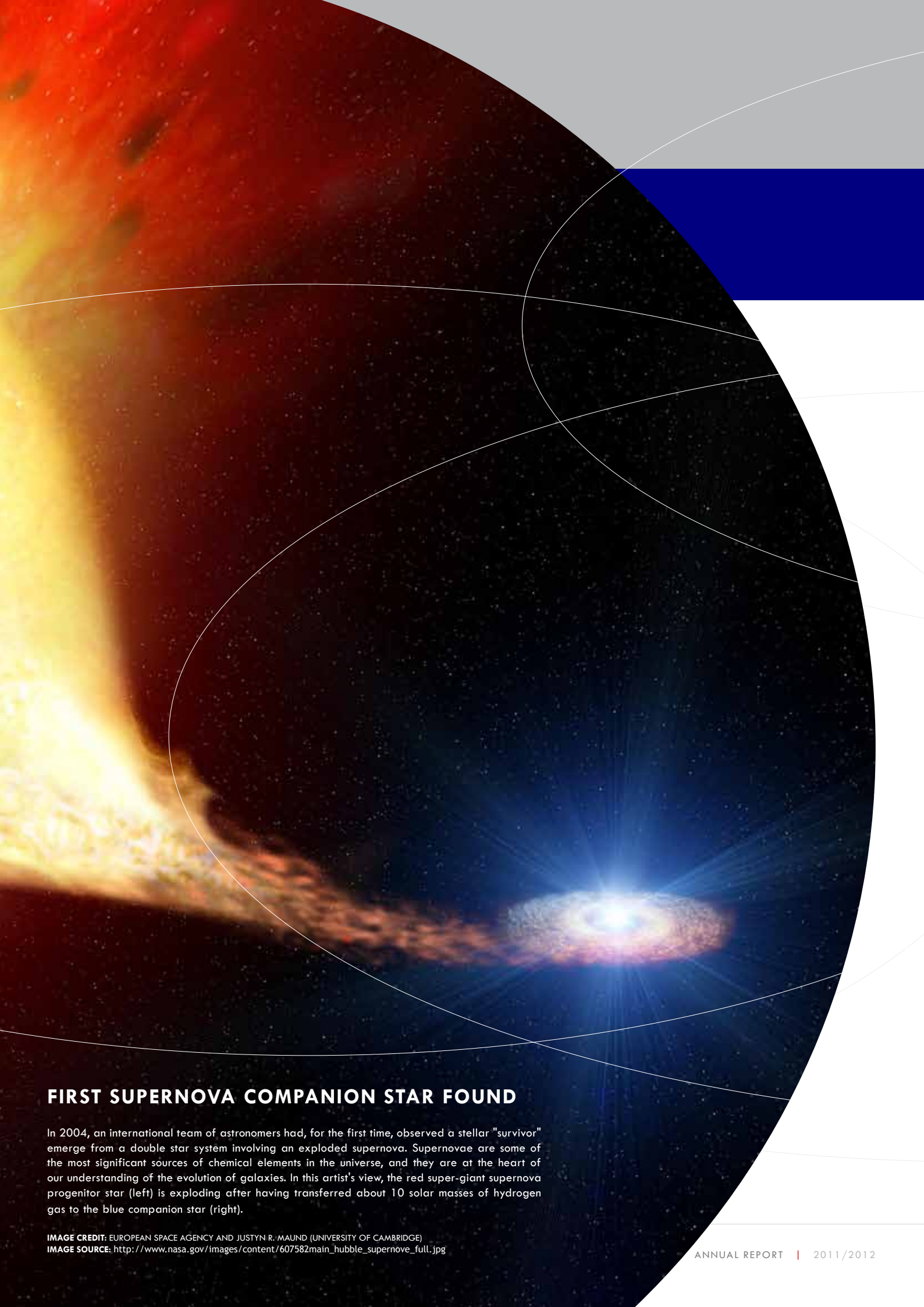
**K5 AVIATION** is one of only a handful of charter companies in South Africa and Africa with a licence to operate all category aircraft and helicopters. With this in mind we are able to offer you any aircraft for you specific contract requirements: long or short term; helicopter or aircraft; day or night operations; offshore or inland.

**YOU PROVIDE THE REQUIREMENT...WE PROVIDE THE SOLUTION.**

## SAWIA WOULD LIKE TO THANK THESE INDIVIDUALS, ORGANISATIONS, COMPANIES & GOVERNMENT DEPARTMENTS FOR THEIR SPONSORSHIP, ENDORSEMENT & CONTRIBUTION:

- COLONEL GRANT MURRAY
- DR KGOMOTSO MOGAPI
- SHARLENE GOVENDER
- CAPTAIN BUTI TSEBE
- NONTHUTHUKO SHEZI @ SCRATCH MOBILE
- JAN DU DOIT
- PETER SMITH @ THE DURBAN WING CLUB
- SOUTH AFRICAN AIRFORCE: SIYANDIZA OUTREACH
- SOUTH AFRICAN POLICE SERVICE AIR WING
- AIR TRAFFIC AND NAVIGATIONAL SYSTEMS
- WITS UNIVERSITY ENGINEERING DEPARTMENT
- SOUTH AFRICAN NATIONAL SPACE AGENCY
- NATIONAL AEROSPACE CENTRE
- SOUTH AFRICAN DEPARTMENT OF EDUCATION





## FIRST SUPERNOVA COMPANION STAR FOUND

In 2004, an international team of astronomers had, for the first time, observed a stellar "survivor" emerge from a double star system involving an exploded supernova. Supernovae are some of the most significant sources of chemical elements in the universe, and they are at the heart of our understanding of the evolution of galaxies. In this artist's view, the red super-giant supernova progenitor star (left) is exploding after having transferred about 10 solar masses of hydrogen gas to the blue companion star (right).

**IMAGE CREDIT:** EUROPEAN SPACE AGENCY AND JUSTYN R. MAUND (UNIVERSITY OF CAMBRIDGE)  
**IMAGE SOURCE:** [http://www.nasa.gov/images/content/607582main\\_hubble\\_supernove\\_full.jpg](http://www.nasa.gov/images/content/607582main_hubble_supernove_full.jpg)

# PARTNERSHIPS

THE SOUTH AFRICAN CIVIL AVIATION AUTHORITY

APPROVED

The most difficult thing is the decision to act, the rest is merely tenacity. The fears are paper tigers. You can do anything you decide to do. You can act to change and control your life; and the procedure, the process is its own reward. AMELIA EARHART, THE FIRST WOMAN TO RECEIVE THE U.S. DISTINGUISHED FLYING CROSS, AWARDED FOR BECOMING THE FIRST AVIATRIX TO FLY SOLO ACROSS THE ATLANTIC OCEAN.



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The South African Civil Aviation Authority (SACAA or CAA) is the South African national aviation authority, overseeing civil aviation and governing investigations of aviation accidents and incidents. It is headquartered in the Ikhaya Lokundiza Building 16 in Waterfall Park, Midrand community of Johannesburg.[1][2]

## SACAA MANDATE

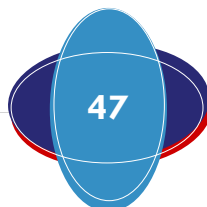
The South African Civil Aviation Authority (SACAA) is an agency of the Department of Transport (DoT) and as a result, its activities are governed by a performance agreement signed between the Board of Directors and the Minister of Transport. Its mandate, defined more fully in the South African Civil Aviation Authority Act No. 40 of 1998, can be summarised as follows:

“The Authority is mandated with promoting, regulating, supporting, enforcing and continuously improving levels of safety and security

throughout the civil aviation industry. The above is to be achieved by complying with the International Civil Aviation Authority (ICAO) Standards and Recommended Practices (SARPs) whilst considering the local context. This mandate relates to aviation safety and security oversight of airspace, airports, aircraft, operations and personnel.”

## ESTABLISHMENT OF THE CIVIL AVIATION AUTHORITY

The South African Civil Aviation Authority (CAA) was established on 1 October 1998 following the enactment of the South African Civil Aviation Authority Act, No.40, in September of the same year. The Act provided for the establishment of a stand-alone authority charged with promoting, regulating and enforcing civil aviation safety and security. It reflected the Government's priorities and was in line with international trends in the aviation world where more and more states implemented this option. [www.caa.co.za](http://www.caa.co.za)





# PARTNERSHIPS

KFS SCHOLARSHIP TEAM, USA &

KUTLWANONG: CENTRE FOR MATHS, SCIENCE & TECHNOLOGY, JOHANNESBURG

## WAI MEMBERS 'PAY IT FORWARD' WITH THEIR OWN SCHOLARSHIP



Photo by John Riedel. The "Keep Flying" Scholarship was presented by Deborah Hecker, Janet Patton and Evelyne Tinkl to Jinko Otsuka (2009 winner). The runner-up, Ana Beltran, was given a partial award. LEFT TO RIGHT: Evelyne Tinkl, Jinko Otsuka, Ana Beltran, Janet Patton and Deborah Hecker. SOURCE: [http://photo.wai.org/main.php?g2\\_itemId=6125](http://photo.wai.org/main.php?g2_itemId=6125)

the "Keep Flying Scholarship" had a conversation with pilots from South Africa. Soon, it was decided to expand the Keep Flying Scholarship into developing countries. A meeting with Refilwe Ledwaba, founder of the Southern African Women in Aviation & Aerospace Industry (SAWIA), allowed both parties to exchange ideas and develop scholarship concepts. Within three hours, funding was arranged by Keep Flying Scholarship friend Christy Dobelli. In collaboration with SAWIA, the Keep Flying Scholarship for a night rating was awarded to South African pilot Michaela Meiswinkel on May 9, 2011.

"When I was 15, I had to decide on a career and make subject choices accordingly," said Scholarship winner Meiswinkel. "I started 'shadowing' at local flight schools, following instructors around, asking questions. Then a family friend took me up on my first flight, gave me the controls, and when that amazing feeling of having the aircraft in my hands and the open sky around me took hold, my interest became my passion."

The Keep Flying Scholarship has been awarded annually since 2003. In 2009, Janet Patton, another airline pilot, joined the Keep Flying Scholarship team. To date, scholarships totaling over \$36,000 have been awarded, and the scholarship has been privately funded by these three WAI members with the support of a small circle of dedicated and generous airline pilot friends and by family members.

"We are an international organization and no matter where our members call home, they are united by a common passion for aviation," said Chabrian. "The Keep Flying International Scholarship is an ideal way to provide opportunities to our members worldwide."

Scholarships available for 2012 will be posted in mid-July 2011. These scholarships will be awarded during the 23rd Annual International Women in Aviation Conference at the Hilton Anatole in Dallas, Texas, from March 8-10, 2012.region.

ARTICLE SOURCE: <http://www.aero-news.net/Subscribe.cfm?do=main.textpost&id=c03b3707-ee0-42d5-ac85-9720d88a9bbd>

AS PAST RECIPIENTS of Women in Aviation, International scholarships, both Deborah Hecker and Evelyne Tinkl knew how career- and life-changing a WAI scholarship can be. Both women had won WAI type rating scholarships in 1998 and went on to have successful airline careers.

Their own positive experiences were the impetus behind launching and funding a scholarship for individuals in the intermediate stage of flight training which they named the Keep Flying Scholarship. Its purpose was to provide the next logical license or rating for a career pilot. Specifically, the Keep Flying Scholarship would ideally fund training for a commercial certificate or instrument, multiengine or flight instructor ratings.

"This is not the first time a scholarship winner has launched her own scholarship," says WAI President Dr. Peggy Chabrian. "Other past scholarship winners want to give to another WAI member what they have experienced themselves. It's a testament to the dedication of our members."

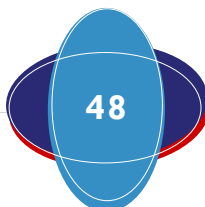
At the 2011 WAI Conference this past February, the three pilots from



KUTLWANONG CENTRE FOR MATHS, SCIENCE AND TECHNOLOGY is a Section 21 non-profit company. We focus on addressing the challenges that South African schools face in the teaching and learning of Mathematics, Science and Accounting. Our objective is to assist learners to obtain descent passes (minimum C symbol) in these subjects.

Although government has intensified its efforts to improve maths performances in the country, South African schools are not generating enough students competent in mathematics. The national number of good high school maths passes remains low and places many young people at a disadvantage when trying to access jobs and tertiary education. The immediate consequences for young people is that they have limited options with what to study at tertiary institutions, while others settle for entry level jobs that neither interest them nor meet their career interests. The long-term consequences are a lack of skills and expertise in professional careers in the areas of information technology, the sciences, finance and accounting, which hinders the economic growth and South Africa's global competitiveness.

[www.kutlwanong.com](http://www.kutlwanong.com)



# PARTNERSHIPS

## ADAMS COLLEGE, KWAZULU NATAL



### HISTORICAL BACKGROUND

Adams College is the oldest school to educate black students in Kwa-Zulu Natal, and the second oldest in South Africa. Adams College is situated in Amanzimtoti 35kms South of Durban and was officially opened in 1853. It is a former mission school originally founded by Dr Newton Adams from the American Board of Missions. It was first named Amanzimtoti Institute and it was later named after him in the 1930s. During the implementation of Bantu Education from 1953, its name was changed to Amanzimtoti Zulu Training School. Its name was reverted to Adams College after the abolishment of Bantu Education.

The naming of Amanzimtoti is generally attributed to the legendary King Shaka, the founder of the Zulu nation. It is said that during one of his expeditions, he and his regiments stopped to have a rest along the local river. He was then brought a calabash filled with water from the river. He sipped the water and commented, "Kanti Amanz'amtoti" (the water is sweet). He used the isiZulu word "amtoti" instead of the common one "amnandi", which means the same thing. He did this as a cultural way of showing respect to his mother Nandi, whose name resembled amnandi.

#### Academic Significance

Adams College provided Africans with an opportunity for gaining a good standard of education. It was the first college to offer the matric syllabus. An art degree, building diploma and teachers training course were also offered.

It was amongst the first African schools to: introduce co-education (education for both boys and girls in 1910); teach mathematics and science to Africans; provide matriculation and post- matriculation courses (1931); introduce sport development programme and give responsible posts to Africans.

In 1922 Inkosi Albert Luthuli became the first African to be employed on the teaching staff at Adams, teaching isiZulu and Music and later being put in charge of school organization.

In 1925 Z.K. Matthews was the first African to be appointed head master of the high school with white staff under him.

In 1925 Robbins Guma was made a member of staff at the teachers' training school; he was later to be the first African to act as the head of the training college of African teachers

### THE FOUNDERS OF ADAMS COLLEGE

The oldest foreign mission society in America, the American Board of Commissioners for Foreign Missions, was formed in 1806 with the main goal of spreading Christianity to the 'heathen lands'. The American Board, found its strongest supporter to be the Congregational Church. The Board employed many qualified men and women to work in religious educational, publishing, industrial and medical fields. In 1835 the first American Board

missionaries arrived in South Africa with the aim of bringing 'to the native people of South Africa knowledge and the Christian religion.

In 1834 Dr Newton Adams, a medical missionary and his wife embarked upon their missionary endeavour. They sailed from Boston, the head office of the American Board, along with five other missionaries and their wives. The missionaries were part of a contingent which was divided into two groups. Three missionaries known as the maritime group, were sent to the coast to Dingane's people near Port Natal. They were Newton Adams, Aldin Grout and George Champion.

After spending sometime in the Cape learning the Dutch language, Dr Adams and Mrs Adams and the other missionaries arrived in Port Natal in 1835. The inland mission did not last long, as it faced many mishaps such as illness and unrest. Dr Adams' maritime group, were more successful. It was not long before Adams had a school of 50 pupils and a Sunday congregation ranging from 200 to 1500. As early as 1836 a Grahamstown trader, who visited Natal said: 'A school for girls has been established by Dr Adams, in which were 29 scholars, all neatly clothed in cotton dresses. Some were employed at needlework and others learning to read'. The missionaries now turned their attention to Natal, where Adams had established a station in 1836.

In 1843 the British Government took control of Natal. This gradually allowed for mission work to become firmly established. In 1847 Dr Adams moved from Umlazi and went to Amanzimtoti, about 22 miles down the coast from Durban, and started a new mission station. He made this decision because his congregation was moving there and because Amanzimtoti was the centre of a large population. At this time the first convert, Umbalasi, a Zulu woman, was accepted into the church by Adams. Dr Adams started by teaching black people the English language and his wife held meetings for women and taught them how to sew, cook and take care of their children according to the western way of life.

At Amanzimtoti Adams seemed to become popular among the local people, he was given a Zulu name which meant "the man with three coats". This name referred to the white overall which he wore as a doctor, the black frock coat in which he took services and short lumber jacket which he wore when chopping down trees. At this mission Adams built a residence that carried his name, and which remained on the mission grounds until it was pulled down in 1958. Dr Adams died in 1851, and so not to lose the benefits of the work he had done, the American Board sent Rev. Rood to Amanzimtoti in 1853 with the express object of opening up a school.

### ADAMS INSTITUTION 1913 | 'ARISE AND SHINE'

The schools motto 'Arise and Shine' was instilled in the students and they were greatly inspired to be the best they could be. The reason why many of them are shining where they are today is because they have unconsciously or indirectly made this motto a part of their lives". (Mrs Mstahali-teacher between 1930s and 1950s).

There are many examples of how this motto had a great influence on the thinking of the students. One student wrote an article in the school magazine entitled 'Arise and Shine' and suggested that one must not forget the message of the motto, "which places great responsibility of every member of the college. In fact it is a command we should willingly obey if we wish to shine". The student implores fellow students to make use of all the activities at the college in which they can arise and shine.

Another student with a strong belief in the potential of the motto and in the positive role of Christianity wrote, " Our motto here is 'Arise and Shine'. If we are to shine at all, we have to see that we love others and sympathies with them, irrespective of race, color and so on. Trusting in God we should do right". These students revealing signs of hopefulness due to their belief in a positive future (a product of a strong religious education and reassurance of gradual assimilation) strove forward with determination.

One pupil encouraged his fellow students to: Be optimistic, look to the end, imagine yourself done with your difficult and fancy what pleasure you will receive after your sweating. Then I am sure you will go through thick and thin for the achievement of any of your undertakings because you will have known that PERSEVERANCE PREVAILS.

[www.adamscollegesa.co.za](http://www.adamscollegesa.co.za)





## HUBBLE SERVES UP A HOLIDAY SNOW ANGEL

The bipolar star-forming region, called Sharpless 2-106, looks like a soaring, celestial snow angel. The outstretched "wings" of the nebula record the contrasting imprint of heat and motion against the backdrop of a colder medium. Twin lobes of super-hot gas, glowing blue in this image, stretch outward from the central star. This hot gas creates the "wings" of our angel. A ring of dust and gas orbiting the star acts like a belt, cinching the expanding nebula into an "hourglass" shape.

**IMAGE CREDIT:** NASA, ESA, and the Hubble Heritage Team (STScI/AURA)  
**IMAGE SOURCE:** [http://www.nasa.gov/images/content/611102main\\_snow-angel-hubble\\_full.jpg](http://www.nasa.gov/images/content/611102main_snow-angel-hubble_full.jpg)

# TEAM PROFILES

"It takes a village to raise a child." AFRICAN PROVERB



**CAPTAIN REFILWE LEDWABA (FOUNDER & DIRECTOR OF FINANCE).** Refilwe Ledwaba is a helicopter pilot with the South African Police Service (SAPS). Prior to joining the SAPS, Refilwe completed a BSC (Biochemistry and Microbiology) at the University of Cape Town (UCT). Refilwe was a recipient of the Future Leadership Programme through the Management Development Trust (MDT) scholarship fund, which enabled her to study the Postgraduate Diploma in Business Administration at the UCT Graduate School of Business in 2009. Refilwe is a keen aviator and passionate about women's rights and development in general. She hopes that through SAWIA more young women will learn about opportunities in the aviation sector, pursue a career in aviation, and contribute to its reform. Refilwe is an active member of Women in Aviation International (WAI), the SAPS Women's Network, The Ninety

Nines, The Whirly Girls - International Women Helicopter Pilots, and Women in Corporate Aviation.



**CAPTAIN LAURA ILUNGA (DIRECTOR OF OPERATIONS & SAWIA TEAM LEADER).** Laura was born in Kinshasa in the Democratic Republic of Congo; however South Africa has been her home since she was a young child. She matriculated from Pretoria High School for Girls in 2003 and attended the University of Pretoria in early 2004 to study toward a BCOM in Accounting Sciences. Laura began her aviation career in the South African Air Force in late 2004 as a pupil pilot and received her military pilot wings in July 2007 on the PC7MkII Astra. She then studied towards a rotor wing licence and is currently flying the Oryx helicopter as a member of 15 Squadron at Air Force Base Durban. Laura also holds a multi-engine Helicopter Commercial Pilot licence.

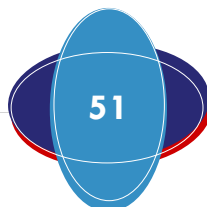


**SIBONGILE SAMBO (BOARD OF ADVISORS).** Sibongile Sambo is the founder and MD of SRS Aviation – the first 100% black female-owned aviation company that offers clients professional and personalised flight options to destinations around the world. Sibongile is a businesswoman, entrepreneur and a motivational speaker. Her life is crowned with achievements and hard work which is evident from her education and work experience. Sibongile holds a Bachelor of Administration from the University of Zululand; an Honours in Administration from the University of South Africa (UNISA); an Advanced Programme in Organisational Development from UNISA; a Marketing Certificate from the Institute of Marketing Management and a Mining Executive Preparation Programme from Wits University. Sibongile is currently studying toward a Master of Science in Management of Technology and Innovation in Aviation. Sibongile has a strategic relationship with Women of Colour in Aviation & Aerospace in the USA and is also a member of Women in Aviation International (WAI). Sibongile plays a vital role in mentoring young girls and boys, and businessmen and women in Africa. She is a beneficiary of

the month-long mentorship program in the USA for international businesswomen, featuring a mentorship assignment with one of Fortune magazine's Most Powerful Women: the Honourable Hillary Rodham Clinton who is one of the founders of the programme. Sibongile is a former member of the National Small Business Advisory Council that advises the Minister of Trade and Industry on SMME's in South Africa and advocates the interests of small business and Monitor Impact which focuses on fostering the culture of entrepreneurship in youth and women. Sibongile is a member of the think-tank of the World Entrepreneurship Forum (WEF), founded in France by Nicolas Sarkozy, the State President, and EMLYON Business School. In 2007, Sibongile was named a Leader of Tomorrow by Fortune magazine. In 2008, she was featured in the World Bank's report: Doing Business: Women in Africa. In 2009 she was nominated for the Queen Victoria Memorial Award (the International Socrates Award) by the Europe Business Assembly in London. In 2012 Sibongile has been appointed as one of the Ambassadors for the World Entrepreneurship Forum.



**FUNDI SITHEBE (BUSINESS DEVELOPMENT).** Fundi has worked in the financial services industry, specifically focused on expansion into Africa for four years. Her key focus areas being in strategy and project management. Prior to joining the financial services industry, Fundi was a consultant with Deloitte focusing on strategy, working on a variety of strategy projects across multiple industries. She has also worked at the 2010 FIFA World Cup Local Organising Committee between 2008 and 2010 as a Protocol Coordinator. Fundi obtained her PPL in 2006 after training with Lanseria Flight Centre. She holds a Bachelor of Business Administration (BBA) and obtained a Post Graduate Diploma (PDM) in 2001 from the Wits Business School.





# TEAM PROFILES



**PETER SEFOKA KEKANA (FUNDRAISING).** Peter was born and educated in Soweto. Before he started flying he worked on the ground as a Customer Service Agent for British Airways/Comair. In 2004 Peter was accepted to join the SAA Cadet Pilot Programme. He started his flying training at 43 Air School in Port Alfred, South Africa and qualified with a Frozen ATPL in August 2005. In March 2006, Peter took his first job as a Co-Pilot for Solenta Aviation flying the Cessna Grand Caravan. In September 2007 he relocated to Lagos, Nigeria to work for Overland Airways as a First Officer on the Beechcraft 1900D. He is currently a First Officer for Arik Air, in Nigeria, on the Bombardier Dash 8 Q400. Peter is passionate about aviation and empowerment.



**STACY SHEARD (INTERNATIONAL LIAISON OFFICER, USA).** Stacy Sheard is a helicopter test pilot for Sikorsky Aircraft Corporation in the United States (USA). Stacy is currently involved in the production and completion of flight tests of Sikorsky S-76 and S-92 helicopters, aircraft deliveries and the instruction of customer pilots. Stacy began a USA military career in Intelligence working as a Russian linguist for the National Security Agency (NSA). She was later accepted into the USA Army flight program to fly Huey and Blackhawk helicopters. After 11 years of active military service, she decided to pursue a civilian flying career. Stacy is a Scholarship Director for The Whirly Girls - International Women Helicopter Pilots. She holds an FAA Helicopter Airline Transport Pilot license, a Certificated Flight Instructor license, a BSC in Aeronautics and is currently pursuing her studies toward an MBA in Aviation.



**CHIVASA MUBUNGANI (IT CONSULTANT).** Chivasa is a highly skilled Microsoft Certified Professional with a passion for Information Technology, versatile in both hardware and software, with working experience spanning over 6 years on different platforms. His objective is to apply his skills in the ICT field and continually succeed in all areas of software engineering, hardware maintenance, networking solutions, training and consultancy. Accredited by the Association of Computer Professionals (UK), Chivasa holds numerous certificates from them which include a Certificate in Programming, Diploma in Systems Analysis and Design, Certificate in Visual Basic Programming and Database Design, Certificate in PC Hardware Maintenance, Certificate in Web Design and Internet Programming.



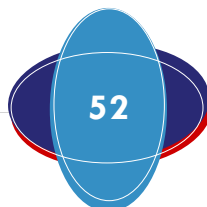
**MICHELLE BASSANESI (INTERNATIONAL LIAISON OFFICER, EUROPE).** Michelle is an Australian living in Rome, Italy. Her dream is to fly jets around the world and receive accreditation as Airport Manager. She has over 30 years in business management experience and 12 years in aviation experience. Michelle is working toward her degree in Professional Aeronautics at Embry Riddle Aeronautical University with a minor in Airport Management and Aviation Safety. She embarked on her love of flight in the free-flying community (paragliders and hang gliders) and has now progressed to aviation (single engine and twin-engine light aircraft). Michelle is the grateful recipient of multiple scholarships that have helped her in her career, such as the ISA+21 Scholarship in 2005 and again in 2007 together

with the Amelia Earhart Memorial Scholarship. She has both FAA and JAA Commercial Multi/Single Instrument Certificates as well as JAA and FAA instructor and instrument instructor ratings. Since 2005, as the founder, promoter and creator of Aviation and Women in Europe (AWE): [www.aweu.org](http://www.aweu.org), Michelle has brought the benefits of Women in Aviation International to Europe through mentoring skills and her work connecting male and female aspiring aviators, encouraging them to enter the professional world of aviation in Europe and Africa. During the WAI Conference in Reno February 2011 Michelle received the prestigious Airbus Leadership Award: "In recognition of her exceptional achievements to date, her uncommon determination in pursuing her goals, and her potential to become an outstanding leader."



**PHEMELO SEANE (GAUTENG BRANCH COORDINATOR).** Phemelo is a helicopter pilot for the South African Police Service (SAPS). She completed the Trainee Pilot Program in 2010. In 2009, prior to joining the SAPS Pilot Trainee Program, Phemelo worked as a cadet at the South African Flight Training Academy (SAFTA) where she gained experience in flight operations as well as general administration. She started her flying career in 2008 after matriculating in 2007. Phemelo's goal at SAWIA is to promote the youth's interest in the aviation and aerospace industry with particular focus on a positive attitude towards academic studies. She is a member of Women in Aviation International which is dedicated to providing networking, education and mentoring for women and men, as well as The Ninety-Nines Inc, an international organisation of women pilots that promotes advancement of aviation through

education and sharing the passion for flight. Phemelo is developing a scholarship for CPL Ground School for candidates who have a Private Pilot License but do not have the financial resources to continue with the theory studies required to sit the CPL holder examinations.



# TEAM PROFILES



**LERATO LEDWABA (EDUCATION & GIRL FLY PROGRAMME IN AFRICA).** Lerato is a consultant in the Corporate Finance division of a large auditing firm. She has more than 3 years corporate finance experience, including mergers and acquisitions, black economic empowerment transactions, capital raising and has worked with clients in various sectors including Financial Services, Mining, Telecommunications and Information Technology. Prior to joining Corporate Finance, Lerato worked in the Risk Advisory division as well as the strategy and innovation division, where she also completed a one year Business Consulting programme. Lerato holds a BCOM degree and a Certificate in Introduction to Investment and Finance. Lerato is currently studying towards a CIMA qualification.



**GARY WATSON (BOARD OF ADVISORS & FINANCE).** Gary is a Chartered Financial Analyst (CFA) and has worked in the financial services sector for 15 years. He has worked in various functions including banking and fund management. Gary was the CEO of an investment bank in East Africa. An entrepreneur at heart, he recently started his own business, specialising in assisting emerging entrepreneurs with their businesses' growth phase. At present, Gary is based in Johannesburg and is a partner at Noge, Watson and Partners - a business incubator and entrepreneurial development entity specialising in Sub-Saharan Fixed Income and Private Equity. Gary has a keen interest in aviation, though not a pilot himself.



**MOKGADI LESHALABE (KWAZULU NATAL BRANCH COORDINATOR).** Mokgadi was born in Mpumalanga, Grobblersdal and matriculated in the top ten at Hoerskool Ben Viljoen. In 2008 she joined Air Traffic and Navigation Services (ATNS) in pursuit of being an Air Traffic Controller (ATC). She studied at the Aviation Training Academy (ATA) in Johannesburg. In 2009 she received her rating as a Tower ATC and in 2010 she moved to Durban where she validated at Durban International as a Tower Controller - in doing so, she became the youngest ATC in South Africa to date. She is currently a Controller at King Shaka International Airport. Mokgadi joined SAWIA with the vision and objective of mentoring and assisting girls from disadvantaged backgrounds in the aviation industry, focusing on ATC careers. At present, she is studying a BSC degree and looking forward to being an Approach/Area (APP/ACC) Controller in the near future.

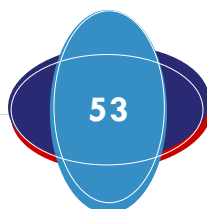


**CAPTAIN MARGARET VILJOEN (BOARD OF ADVISORS).** Margaret matriculated from Sandringham High School in 1984, and in 1987 started work as a charter co-ordinator for National Airways Corporation. It was during this time that she decided that she would rather be flying, and in January 1988 she started her PPL at the East Rand Flying Club in Springs. She passed her PPL test in June 1989, and passed the Commercial Licence theory exams in October 1989. In December 1989 South African Airways advertised for candidates for their very first Cadet Pilot Training scheme. Margaret applied, and was one of 10 successful candidates. She completed her CPL training with SAA in September 1990, and was then offered her first job flying King Air 200s for National Airlines on their scheduled services, eventually moving over to the charter section of National Airways to fly Barons and King Air 200s. In March 1996 Margaret joined Comair as a First Officer on ATR42s, moving over to the right hand seat of the Boeing 727-200 in September 1997. In

March 2000, Margaret was offered her Command on Boeing 727s. The B727s were retired from service in 2003, and she moved over to the Boeing 737 fleet. At much the same time, Margaret was appointed as a Check Captain for Comair. During this time Margaret served on the Committee of the Comair Pilots' Association, becoming Chairman of the association in August 2004. Margaret was also awarded the first FEDUSA Woman of the Year award in 2003. In early 2006, a seat on the National Executive Committee of ALPA-SA became vacant, and Margaret was elected to the position, ending her term as Chairman of the CPA. She is actively involved in bringing the CIRP programme offered by ALPA-SA up to date, and also is providing oversight for ALPA-SA on the National Unmanned Aerial Systems Policy Co-ordination Committee.



**MORONGWA PAPO (MERCHANDISING).** Morongwa is a young aspiring pilot, presently training for her commercial pilot license. She is a keen charity worker, eager to learn something new everyday and enjoys helping others to succeed and achieve their dreams. She is passionate about all aspects of aviation, particularly flying. Morongwa feels she is where she am today because of hard work and determination to pursue her career as an airline pilot regardless of the many challenges she has faced. She has overcome immense adversity to become an ambassador of her own dreams while helping others to do the same. She believes we can all achieve our dreams if we are focused, determined, courageous, and above all, possess a positive attitude.





# TEAM PROFILES



**PROFESSOR CLAUDIA POLESE (BOARD OF ADVISORS).** Professor Claudia is a vibrant, young associate professor at the University of the Witwatersrand in Johannesburg (Wits), determined to make her mark in aeronautics. Only a few years ago she graduated from the School of Aeronautical Engineering in Italy as one of thirty aeronautical engineers and one of only five women in the group. She originally hails from the University of Pisa (Italy) where she was involved in researching innovative welding technologies for application in aeronautical structures, including the fatigue life enhancement of standard metallic components, as well as damage tolerance on integral structures. There are various dimensions to Polese's role in aeronautics through Wits. She teaches properties of materials to her students, coupled with her research on welded components with a view to introducing these to aeronautical structures. She also acts as research advisor to the National Aerospace Centre of Excellence (NACoE) and has undertaken to establish various networking channels in the field of aeronautics, both locally and internationally. Polese is also a member of the South African Welding Institute of South Africa, frictional and steel welding for space and aeronautical applications being her speciality. As a woman in the aeronautical field, Polese is aware of her responsibility as a role model to young women in the profession. "I am walking proof that it is possible to perform in a male-dominated field," she says. "It is very encouraging for me to know that this has inspired students to pursue an ambition to be part of the aeronautics profession regardless of the perceived limitations."



**NYASHA MEMORY MANYIKA (SAWIA'S SMOOTH LANDING NEWSLETTER CHIEF EDITOR).** Nyasha was born in Harare, Zimbabwe, eldest child in a family of four. She has a passion for working with young children which was triggered by being the eldest child and watching her siblings grow. She loves being part of helping a child grow, teaching them new things and watch them grasp. She has worked as a child-minder/au pair and as a nursery school teacher. Nyasha has a Private Pilot License and currently undertaking Commercial Pilot License training at Lanseria Flight centre. She enjoys flying and hopes to one day fly for the United Nations and help those in need by being able to bring aid to them and help empower countries facing any wars and famine.

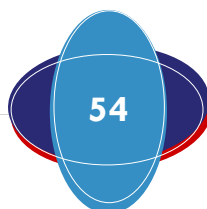


**KATE ESTERHUYSE (BOARD OF ADVISORS & TRAINING).** Kate is a professional Helicopter Pilot and Instructor. She was recently promoted to the post of Director of Training, having previously held the posts of Chief Flying Instructor and Testing and Standards Instructor. Kate matriculated from Rustenburg Girls High School in Cape Town in 1983 and after leaving school, qualified as a medical microbiologist. She worked at Red Cross Children's Hospital until 1991. A change in career saw her further qualify as an architectural designer and she owned her own architectural design and project management company until 2000, when she finally made the decision to pursue her long time passion for aviation. Kate completed her fixed wing PPL in June 2000, and in Aug 2002 completed her helicopter licence at NAC Helicopters Unlimited, which was later to become Starlite Aviation. Her first helicopter job was flying the RH44 for Netstar, recovering stolen vehicles. Thereafter she freelanced as a helicopter charter pilot, flying Jet Rangers and Long Rangers. During this time, Kate completed her Helicopter Instructors Rating and in 2006 became the training school manager for NAC Helicopters, Durban. In 2007 she joined Red Cross Air Mercy Services and

flew the medical rescue AS350 and EC130 helicopters until January of 2008. Kate returned to Starlite Aviation to pursue her passion for instruction, becoming Chief Flying Instructor in April 2009 and Testing and Standards Instructor in 2010. At Starlite Aviation, Kate has managed contracts and instructed pilots from The South African Air Force, Kenyan Air Force, South African Police Air Wing, Botswana Police Air Wing, Namibian Police Air Wing as well as civilian students. She particularly enjoys mentoring young men and women through their chosen career paths as helicopter pilots.



**RENISHA NAIDOO (MENTORSHIP).** Renisha obtained her PPL in 2006 at the age of 17 at Flight Training College in George. In 2009, she completed her commercial pilot licence and soon after, her instructor rating. She has accumulated most of her flight instruction hours at Lanseria and has been based here for the last 3 years. She is currently employed at Foster Aero Training as their Acting Chief Flight Instructor. Her vision and goal at SAWIA is to mentor young women who are just starting their journey in aviation, offering encouragement, mentorship and support. Renisha is passionate about women's rights and believes that women hold the world in the palms of their hands.



# TEAM PROFILES



**SHARLIZA SCHEFFER (SCHOLARSHIP CHAIRPERSON).** Sharliza started flying in 2001 at Krugersdorp Flying School where she completed her Private Pilot License (PPL) and night rating. She completed her CPL at 43 Air School, her instructors rating in 2003 and worked at 43 Air School for two years. Sharliza flew Twin Otters and Beechcraft 1900 at Solenta and Executive Turbine on contract in the Sudan and the DRC. She then joined 1time airline in 2007 where she flew DC-9 and MD80 series aircraft as a senior first officer - at present, Sharliza is a first officer at Emirates Airlines on the 777.



**AMANDA KANDAWIRE (SAWIA'S SMOOTH LANDING NEWSLETTER EDITORIAL MEMBER, PHOTOGRAPHER, SAWIA BLOGGER & GAUTENG OUTREACH PROGRAMMES).** Amanda was born in Soweto and obtained her matric at Pretoria High school for Girls. She started her flying career at the South African Flight Training Academy in 2008 and has her Fixed Wing Frozen ATPL. She has worked as an operations cadet at her flying school as well as a flight operations controller at Comair Ltd and is currently working towards obtaining her instructors rating at 43 air school. She is an aspiring fashion photographer, under the alias La Photo Diva and is SAWIA's official photographer.



**LURIAN MILES (DESIGN, MARKETING & COMMUNICATION).** Laurian is a design, marketing and communication professional specialising in graphic and digital design, research, analysis, content and e-marketing, website design and development, branded content and project management. Laurian brings 16 years of knowledge, skill and experience from working and training in a variety of industries, including: business and finance information research, education publishing and project management (distance learning), marketing, IT, communication and graphic design. Laurian studied a Bachelor of Arts degree majoring in Drama (distinction), Anthropology and English at Rhodes University from 1989 to 1991. In 1989 she was the recipient of a Garment Worker's Union Education Bursary to further her undergraduate studies. In 2006 she graduated from the University of Cape Town's Graduate School of Business with a Postgraduate Diploma in Business Management Practice (distinctions in Marketing, Management Leadership and

Managing People in Organisations). Laurian is passionate about human rights, science, technology, design, education and the emancipation of women and girls through education, entrepreneurship, creativity and excellence - she is currently the Creative Director and Business Owner of a n t a r a y: DESIGN, MARKETING & COMMUNICATION, a design studio established in 2009 and based in Cape Town.



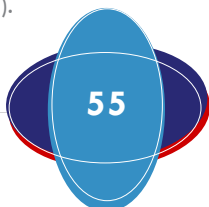
**WENDY SANTILHANO (STRATEGIC ADVISOR).** I believe that life is a journey and presents us with amazing opportunities for discovery and growth. In high school I decided that I wanted to learn to fly. First I studied psychology and statistics, at UCT. Thereafter I worked at UCT and UWC providing non-academic student support for students in academic bridging programmes, and implemented a student financial aid project. 1994, a year of transition, both for South Africa as a nation, as well as for myself. I realized that it was important for me to 'live without regret'....This paradigm became the catalyst to following my dream. I found a flight school in San Diego and began learning to fly while studying my Master's in Intercultural Management in the USA. A requirement for completing my degree led me to an internship in the CRM section of North West Airline's Flight Operations, and 2 wonderful years in Minneapolis. Over many years I have pondered how to integrate two

of my passions: working with people, and, flying. Whilst flying, I have continued studying various counseling, coaching and psychology courses. Currently I am exploring my passion and focus in using coaching to support the personal growth, development and wellbeing of pilots, as part of my PhD. Presently, I am implementing a Wellbeing programme to support pilots confronted with traumatic experiences, for the Airline Pilot's Association. I fly as a first officer on A319s for SAA. In my spare time - I dance.



**REFILWE MOTSHEKGA (LIMPOPO/MPUMALANGA BRANCH COORDINATOR).** Refilwe was born in Tzaneen in the Limpopo Province. She matriculated from Merensky High School in 2005 and in 2006 she joined the South African Air Force as a pupil pilot, and later received her pilot wings in September 2009. She then completed her rotary wing conversion on the Oryx helicopter and started her Oryx co-pilot tour at 22 squadron in Cape Town. She is currently still flying the Oryx, but at 19 Squadron in Hoedspruit.

**ADDITIONAL TEAM MEMBERS:** Lerato Nyamande (Outreach Programmes); Thabile Serepo (Gauteng: Events); Siphokazi Mbatha (Outreach Programmes) and Obakeng Tselapedi (Outreach Programmes).







## AFRICA VIA SATELLITE

IMAGE CREDIT: NASA/KOBUS BOTHA  
IMAGE SOURCE: <http://www.zonu.com/images/OX0/2009-11-04-10812/Mapa-de-Africa-satellitai.jpg>



# FINANCIAL REPORT

## STATEMENT OF ACTIVITIES

**"I was raised to believe that excellence is the best deterrent to racism and sexism and that's how I operate my life."** OPRAH WINFREY, THE FIRST BLACK WOMAN BILLIONAIRE, PHILANTHROPIST, ENTREPRENEUR, TALK SHOW QUEEN AND FOUNDER OF HARPO PRODUCTION STUDIOS.

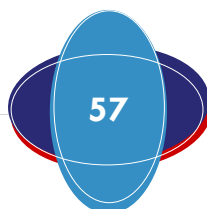


IMAGE SOURCE: <http://www.shutterstock.com/vec/albums/TravelWorld/vec/>

### STATEMENT OF ACTIVITIES

for the year ending 31 May 2012

	Jun-11	Jul-11	Aug-11	Sep-11	Oct-11	Nov-11	Dec-11	Jan-12	Feb-12	Mar-12	Apr-12	May-12	TOTAL
<b>REVENUES &amp; GAINS</b>													
Public Contributions & Donations	100	-	4 500					5 000			350	200	10 150
Fundraising	10 392	-	-	-	-	-	-	4 400	-	-	-	15 444	30 236
Unrestricted	-	-	-	-	-	-	-	-	-	-	-	3 600	3 600
Restricted	10 392	-	-	-	-	-	-	4 400	-	-	-	11 844	26 636
Membership Fees	-	-	-	-	-	-	-	-	-	-	-	-	-
Investment Income:	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Income	49	49	49	49	49	49	49	150	150	150	150	150	1 093
Royalties	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>TOTAL REVENUES &amp; GAINS</b>	<b>10 541</b>	<b>49</b>	<b>4 549</b>	<b>49</b>	<b>49</b>	<b>49</b>	<b>49</b>	<b>9 550</b>	<b>150</b>	<b>150</b>	<b>500</b>	<b>15 794</b>	<b>41 479</b>
<b>EXPENSES</b>													
Restricted Expense	10 000	-	4 500	-	-	-	-	9 400	-	-	-	600	24 500
Scholarship	10 000	-	-	-	-	-	-	4 400	-	-	-	-	14 400
Programme Services	-	-	4 500	-	-	-	-	5 000	-	-	-	600	10 100
Salaries and Wages	-	-	-	-	-	-	-	-	-	-	-	-	-
General Administration	185	49	49	49	49	49	49	150	150	150	150	294	1 373
Fund raising expense	-	-	-	-	-	-	-	-	-	-	-	2 600	2 600
<b>TOTAL EXPENSES</b>	<b>10 185</b>	<b>49</b>	<b>4 549</b>	<b>49</b>	<b>49</b>	<b>49</b>	<b>49</b>	<b>9 550</b>	<b>150</b>	<b>150</b>	<b>150</b>	<b>3 494</b>	<b>28 473</b>
Increase in Net Assets	356	-	-	-	-	-	-	-	-	-	350	12 300	13 006
Net Assets as Beginning of Month	-	356	356	356	356	356	356	356	356	356	356	706	
Net Assets as End of Month	356	356	356	356	356	356	356	356	356	356	706	13 006	





# FINANCIAL REPORT

## BALANCE SHEET, CASH FLOW & INCOME STATEMENT

### STATEMENT OF ASSETS & LIABILITIES

as at 31 May 2012

#### ASSETS

##### LONG-TERM ASSETS 5 400

Fixed Assets 5 400

Investments -

##### SHORT-TERM ASSETS 13 600

Cash 13 600

Pledges Receivable -

Prepaid Expense -

##### TOTAL ASSETS 19 000

#### LIABILITIES

##### LONG-TERM DEBT -

##### SHORT-TERM LIABILITIES 19 000

Accounts Payable 11 000

Scholarships / Programme Grants Payable 8 000

Overdraft & Short-term loans -

Other accruals payable -

##### NET ASSETS 13 600

Unrestricted 1 364

Restricted 12 236

### INCOME STATEMENT

for the year ending 31 May 2012

#### REVENUES & GAINS

Public Contributions & Donations 10 150

Fundraising 30 236

Unrestricted 3 600

Restricted 26 636

Membership Fees -

Investment Income: -

Other Income 1 093

Royalties -

**TOTAL REVENUES & GAINS 41 479**

#### EXPENSES

Restricted Expense 24 500

Scholarship 14 400

Programme Services 10 100

Salaries and Wages -

General Administration 1 373

Fund raising expense 2 600

**TOTAL EXPENSES 28 473**

**INCREASE IN NET ASSETS 13 006**

Net Assets as Beginning of Year -

Net Assets as End of Year 13 006

### CASHFLOW STATEMENT

for the year ending 31 May 2012

#### CASHFLOW FROM OPERATING ACTIVITIES 12 763

Cash Received 30 236

Public Contributions & Donations 10 150

Unrestricted fundraising 3 600

Restricted fundraising 26 636

Membership Fees -

Royalties & Other Income 1 093

Grants / Scholarships paid (24 500)

Cash paid for Operating Expense (3 973)

Interest Paid -

Increase in Short-term liabilities 11 000

#### CASHFLOW FROM INVESTING ACTIVITIES (5 400)

Purchase of Investments -

Fixed Asset Purchases (5 400)

#### CASHFLOW FROM FINANCING ACTIVITIES -

Proceeds of Increase in Debt -

**Net Change in Cash for the year 7 363**

## SOLAR-ORBITER-SPACECRAFT

ON OCTOBER 4, 2011, the European Space Agency announced its two next science missions, including Solar Orbiter, a spacecraft geared to study the powerful influence of the sun. Solar Orbiter will be an ESA-led mission, with strong NASA contributions managed from Goddard Space Flight Center in Greenbelt, Md.

Solar Orbiter will venture closer to the Sun than any previous mission. The spacecraft will also carry advanced instrumentation that will help untangle how activity on the sun sends out radiation, particles and magnetic fields that can affect Earth's magnetic environment, causing aurora, or potentially damaging satellites, interfering with GPS communications or even Earth's electrical power grids.

The mission's launch is planned for 2017 from Cape Canaveral, Florida aboard a NASA-provided launch vehicle. Solar Orbiter will be placed into an elliptical orbit around the sun. Its closest approach will be near the orbit of Mercury, 75% of the distance between Earth and the sun – some 21,000,000 miles away from the sun's surface.

**IMAGE CREDIT:** NASA (Artist's concept of the Solar Orbiter viewing the sun. Credit: ESA)  
**IMAGE SOURCE:** [http://www.nasa.gov/mission\\_pages/sunearth/news/ESA-SolarOrbiter.html](http://www.nasa.gov/mission_pages/sunearth/news/ESA-SolarOrbiter.html)



# FUTURE DEVELOPMENTS

## 2012 CALENDAR OF EVENTS & GIRL FLY PROGRAMME IN AFRICA ANNUAL AVIATION CAMP

**“The theme you choose may change or simply elude you, but being your own story means you can always choose the tone. It also means you can invent the language to say who you are and what you mean.”** TONI MORRISON, AUTHOR AND WINNER OF THE NOBEL PRIZE FOR LITERATURE IN 1993 AND THE PULITZER PRIZE FOR FICTION IN 1987 FOR *BELOVED*

### 2012 CALENDAR OF SAWIA/GFPA EVENTS

#### JANUARY

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

#### FEBRUARY

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29			

#### MARCH

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

#### APRIL

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

#### MAY

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

#### NOVEMBER

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

#### JUNE

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

#### JULY

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

#### AUGUST

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

#### SEPTEMBER

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30						

#### OCTOBER

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

#### DECEMBER

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

IMAGE SOURCE: <http://www.webgranth.com/wp-content/uploads/2011/10/2012-yearly-calendar.jpg>

#### KWAZULU-NATAL

- 26 MAY | Networking Breakfast
- 16 JUNE | KZN Youth Aviation Day (Adams College)
- 14 JULY | Durban Air Show (Virginia Airport, Durban North)
- 25 OCTOBER | Cocktail Evening
- 10-14 DECEMBER | Techno Girl job shadowing

#### LIMPOPO/MPUMALANGA

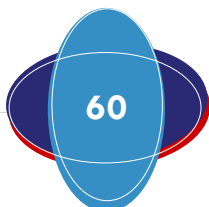
- 25 MAY | Outreach Programme
- 7 JULY | Network Event

#### GAUTENG

- 28 JANUARY | Soweto Aviation Day
- 10 MARCH | Thembisa Aviation Awareness Day
- 17 MARCH | Thandulwazi Careers Day (St Stithians)
- 20 MAY | Grand Rand Air Show (Rand Airport)
- 28 JULY | Adopt-an-Engineer Day
- 25 AUGUST | Adopt-a-Pilot Day
- 20 SEPTEMBER | Networking Breakfast
- 19-23 SEPTEMBER | AAD (AFB Waterkloof, Centurion)

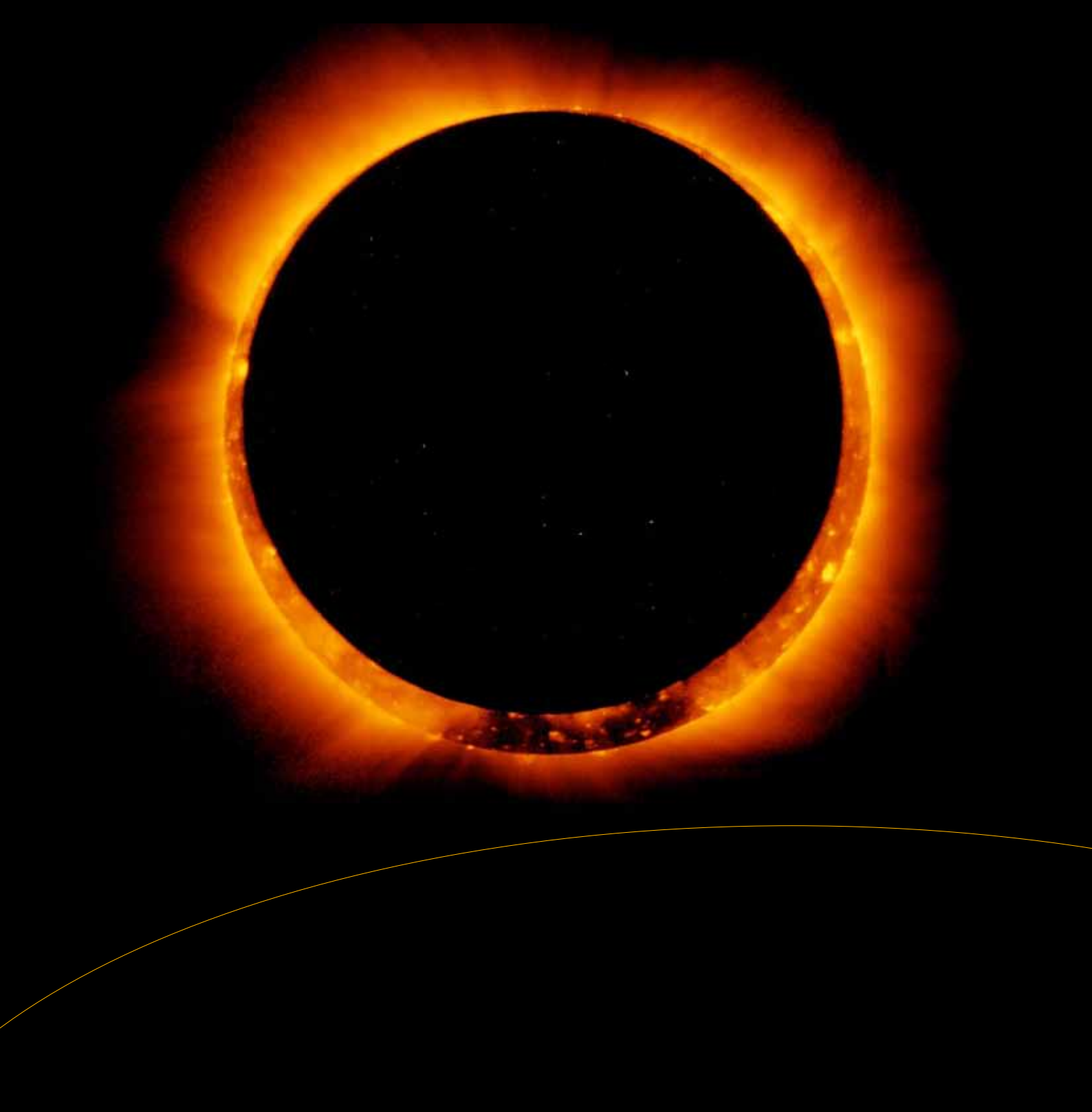
### GIRL FLY PROGRAMME IN AFRICA ANNUAL AVIATION CAMP

DESCRIPTION: A 3 day camp which encompasses aviation related training and life skills coaching  
 PROGRAMME: Day 1: Introduction to aviation Day 2: Lifeskills (team building activities Day 3: Getting into Aviation  
 OUTCOME: Student assesment and selection of best student for SAWIA scholarship/bursary









## SOLAR ECLIPSE: RING OF FIRE

Solar eclipse of May 20, 2012

As seen from the Earth, a Solar eclipse occurs when the Moon passes between the Sun and the Earth, and the Moon fully or partially blocks the Sun. This can happen only during a new moon, when the Sun and the Moon are in conjunction as seen from Earth. In a total eclipse, the disk of the Sun is fully obscured by the Moon. In partial and annular eclipses only part of the Sun is obscured.

If the Moon were in a circular orbit close enough to the Earth and in the same orbital plane, there would be total solar eclipses every single month. However, the Moon's orbit is angled at more than 5 degrees to the earth's orbit around the sun (see ecliptic) so its shadow at new moon often misses the Earth. The Earth's orbit is called the ecliptic plane as the Moon's orbit must cross this plane in order for an eclipse (both solar as well as lunar) to occur. In addition, the Moon's actual orbit is elliptical, often taking it far enough away from the Earth so that its apparent size is not large enough to block the Sun totally. The orbital planes cross each year at a line of nodes resulting in at least two, and up to five, solar eclipses occurring each year; no more than two of which can be total eclipses.[1][2] Total solar eclipses are nevertheless rare at any particular location because totality exists only along a narrow path on the Earth's surface traced by the Moon's shadow or umbra.

An eclipse is a natural phenomenon. Nevertheless, in some ancient and modern cultures, solar eclipses have been attributed to supernatural causes or regarded as bad omens. A total solar eclipse can be frightening to people who are unaware of their astronomical explanation, as the Sun seems to disappear during the day and the sky darkens in a matter of minutes.

As it is dangerous to look directly at the Sun, observers should use special eye protection or indirect viewing techniques. People referred to as eclipse chasers or umbraphiles will travel to remote locations to observe or witness predicted central solar eclipses.[3][4]

**INFORMATION/ARTICLE CREDIT:** [http://en.wikipedia.org/wiki/Solar\\_eclipse](http://en.wikipedia.org/wiki/Solar_eclipse)

**IMAGE CREDIT:** NASA

**IMAGE SOURCE:** <http://www.wallz.eu/photo/351709/sky-apocalypse.jpg>

## SOUTHERN AFRICAN WOMEN IN AVIATION & AEROSPACE

POSTAL ADDRESS # PO Box 6931, Greenstone, Johannesburg, 1616, South Africa

WEBSITE <http://www.sawia.org>

FACEBOOK <http://www.facebook.com/SAWIA.org>

BLOG <http://southernafricanwomeninaviation.blogspot.com>

GENERAL ENQUIRIES [info@sawia.org](mailto:info@sawia.org)

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GAUTENG BRANCH [sawia.gp@gmail.com](mailto:sawia.gp@gmail.com)

LIMPOPO BRANCH [lim.sawia@gmail.com](mailto:lim.sawia@gmail.com)

### MOON ROCK ABOARD THE INTERNATIONAL SPACE STATION

IMAGE CREDIT: NASA

IMAGE SOURCE: <http://www.spaceref.com/news/viewsr.html?pid=31920>



  
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