

FUTURE AFRICAN SPACE EXPLORER'S STEM ACADEMY

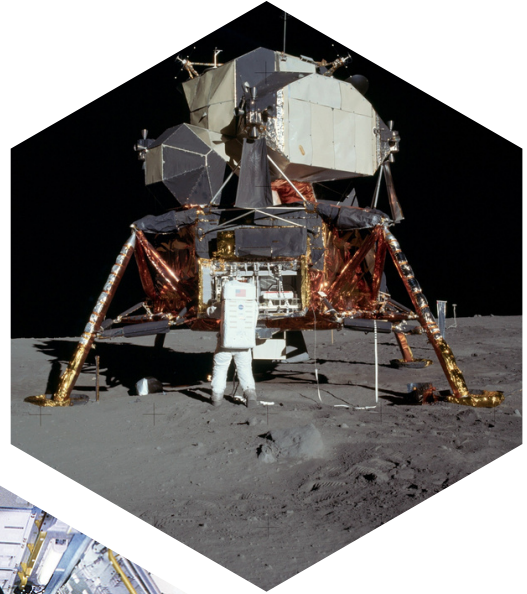
SPACE CAREERS DAY

ST HENRY'S MARIST COLLEGE

DURBAN, SOUTH AFRICA

4 DECEMBER 2023

Increasing Student Interest & Engagement in Space Exploration



Overview

About Space Careers Day

With our mission of Increasing Student Interest and Engagement in Space Exploration FASESA aims to organize a Space Careers Day at St Henry's Marist College, in Durban providing students with insights into various careers in the field of space exploration and technology. This event will inspire and educate students about the exciting opportunities available in the aerospace industry and encourage their interest in pursuing careers in space-related fields.

“Space” does not mean one has to be an Astronaut. The impressive development of Space Applications gives immense opportunities to those who study IT, Agronomy, Biology, Chemistry, Nutrition, Geography, Medicine, Law, Management, Communications, Electronics, Physics, and so on.

The Space Careers Day will not only broaden the horizons of students but also inspire and unleash the next generation of scientists, engineers, and astronauts. By providing them with firsthand knowledge and interactions with professionals, this event will play a pivotal role in shaping their future careers in the fascinating world of space exploration.

Objectives

- The goal is to introduce educators & students to the space domain's immense career opportunities.
- To educate the students and empower them to expand their opportunities to enrich their community through science and technology.
- Provide networking opportunities for students to connect with professionals in the space sector.
- Organize interactive and engaging activities related to space exploration.
- To form a passionate learning network committed to the professional growth of the students.



Learning Outcomes

- Motivate and inspire students to enhance their literacy & competence in sciences, technology, engineering & (STEM disciplines)
- Inspire students to consider pursuing a career in the STEM field, particularly in the space domain.
- Promote awareness of the importance of space research, exploration, and applications in the objectives of modern society and the economy.
- It's a great opportunity for students to meet, discuss and maybe contract a mentoring relationship. Certainly, a good way to help them to find their path!
- The Space Careers Day promises to be an enriching experience for all involved, fostering a passion for space science and technology among the students.

Speakers

April Lanotte

STEM Integration Lead, Aeronautics Research Mission Directorate
National Aeronautics and Space Administration -NASA



Daniel A. Matsapola

Manager Science Engagement & Earth Observation division
South African National Space Agency -SANSA



Shaneil Maraj

Project Coordinator - FASESA
Educator, St Henry's Marist College

Prof Martin Bucher

School of Mathematics, Statistics & Computer Science
University of KwaZulu-Natal



Shaun Keyser

CREW Member, Space Educator Expedition
Space Centre Houston



Anelda Jonker

Program Director, FASESA
Founder, SA STEM Educators



About

About FASESA

Future African Space Explorer's Stem Academy (FASESA) is a not-for-profit organization, formed with the aim of growing the Space Exploration landscape in South Africa and eventually the whole of Africa. Our goal is to enable nations to achieve greater realms of technological success through spacefaring endeavours by engaging, encouraging, and empowering the youth to pursue space careers through dedicated exposure to Science, Technology, Engineering, and Mathematics (STEM) topics.

About St Henry's Marist College

St Henry's Marist College is an Independent Co-educational Catholic school in Durban with Traditional Values offering, Grades 000 – 12.

Program

08:30	Registration
09:00	Why Space Exploration Matters
09:30	Introducing and promoting Space Exploration as part of your STEM class
10:00	How to interest and inspire students to make careers in the space sector
10:30	Aerospace universities and companies in South Africa
11:00	Tea Break
11:30	What careers are needed in space?
12:00	Lunch
13:00	Rocket Science
13:30	Astronomy
14:00	Snack Break
14:15	St Henry's Marist College and invited schools' science projects exhibition
15:40	Rocket Launching
16:30	It's a wrap

Several Jobs in the Space Industry to Explore

- Avionics technician • Producer • Photographer • Research fellow • Electrician • Laser technician • Public relations specialist
- Technical writer • Accountant • Satellite technologist • Biologist • Manufacturing Engineer • Mechanical Engineer • Cyber architect
- Atmospheric scientist • Robotics Engineer • Electronics Engineer • Aerospace Engineer • Software Developer • Computer hardware engineer • Astronomer • Physicist

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Johannesburg, South Africa**



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EVENTS

EARTH OBSERVATION & REMOTE SENSING WORKSHOP

28

**July
2023**

**Pretoria
South Africa**

Using STEM
to combat
climate change



WORLD SPACE WEEK INTERNATIONAL

4-10

**October
2023**

**Cape Town
South Africa**

Rocket Science
& Careers in
Space



KENNEDY SPACE CENTER VISIT

8-12

**January
2024**

**Orlando
Florida, USA**

Meet an
astronaut & visit
Disney World



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PRESS RELEASE

FASESA HIGHLIGHTS

PREVIOUS EVENTS

STEM ORIENTATION WORKSHOPS 13-17 March 2023: Gauteng, North-West & Free State, SA



WORLD SPACE WEEK 4-10 October 2022: ZAMBIA

Engagement by World Space Week Association Team during World Space Week

CONFERENCE: ENHANCING STUDENT ENGAGEMENT IN SPACE EXPLORATION 27-29 April 2022: Sandton, Jhb



**FASESA 'S ENGAGEMENT IN WORLD
SPACE WEEK 2022 RANKED NR.1 IN
THE SPACE WEEK INTERNATIONAL
HIGHLIGHTS.**

- Future African Space Week Explorer's STEM Academy (FASESA) organized Space Week Zambia from October 4-10, 2022 where our Theme Manager, Annie Kazarjan gave a presentation.
- Space Café WebTalk featured Dennis Stone, President of World Space Week Association, in conversation with Torsten Kriening, publisher of SpaceWatchGlobal. The title was World Space Week 2022: An Insight into Space and Sustainability.
- On October 6, WSWA Executive Director Maruška Strah participated in a special event called "Women in Space" in Beer-Sheva, Israel, which celebrated the achievements and contributions of women in the space sector. The event included an exhibition by the She Space girls, showcasing their work and inspiring others to pursue their own interests in space.