





AN INITIATIVE FROM THE EMBASSY OF FRANCE







SINCE 2001, THE EMBASSY OF FRANCE IS SPONSORING THE PARTICIPATION OF FRENCH VOLUNTEERS TO PROPOSE WORKSHOPS AT SCIFEST AFRICA, A SCIENCE FESTIVAL HELD IN GRAHAMSTOWN, SOUTH AFRICA.

SINCE 2001, SEVERAL LEADERS, COORDINATED BY CHRISTOPHE SCICLUNA, PROPOSED ORIGINAL WORKSHOPS AND EXHIBITIONS - "THE FRENCH EXPERIMENTAL LABORATORY"

























SINCE 2001, SEVERAL PARTNERS **HAVE CONTRIBUTED TO** THE SUCCESS OF THIS ADVENTURE

enture pour les jet





THOUSANDS (1981) OF YOUNG ENGINEERS

YEAR #L	<u>-eaders</u>	Topics	Attendance	TV appearance
2001		ibition: You are the Robot rkshop: Micro rockets	323	None
2002		rkshop: Weather Balloon rkshop: Micro rockets	107	Morning Live, SABC2
2003		rkshop: Hot Air Balloon rkshop: Micro rockets	110	Morning Live, SABC2
2004	, , , , , , , , , , , , , , , , , , ,	rkshop: 100% mechanical Robots rkshop: Micro rockets	177	Morning Live, SABC2
2005	2 •Exh	rkshop: Telecommunications ibition: Telecommunications rkshop: Micro rockets	195	Morning Live, SABC2 Report on SABC Africa
2006	-Wo₁	overy room: Satellites rkshop: Weather Balloon rkshop: Micro rockets	238	H2B2 Report on SABC Africa
2007	•Wor •Wor	ibition: Satellites rkshop: build your satellite rkshop: design your satellite rkshop: satellite mission control rkshop: Micro rockets	502	None
2008 SCICLUNA – SAASTEC 2008	3 •Wo	rkshop: Solarpod rkshop: Water rockets rkshop: Micro rockets	329	Knock-Knock





JOINT EVENT: KWOLEDGE SHARE & TRANSFER

2006









WEATHER BALLOON WORKSHOP



2007









SATELLITE EXHIBITION







THE FRENCH EXPERIMENTAL LABORATORY

A SET OF SIMPLE GUIDELINES RULE THE PREPARATION OF OUR CONTENTS

1 workshop a day, new each year

Maximum duration: 3 hours

For youth from 8 to 18, possibly by age group

Host as much people as possible

Workshop easy to localize

Cheap or reused material

Object to be manufactured and brought back at home, functioning

No kit, no manual : participants make use of their personal "hidden" knowledge and imagination

Scientific & pedagogic content: experiment!

Innovative workshop with regard to previous years festival's content





2001-2008: THE FAMOUS MICRO-ROCKETS

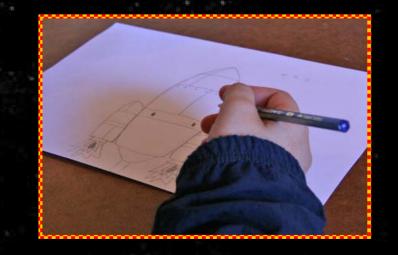
MICRO-ROCKETS ARE MADE OF CARDBOARD, FOAM AND PLASTIC BAG. THEY ALLOW NOVICE TO DISCOVER ABOUT STABILITY, FLIGHT MECHANISM... AND SPACE!





GRAHAMSTONIANS AND VISITORS
ARE FOND OF THESE SMALL
ROCKETS AS IT IS AN EASY TO
MANUFACTURE SPACE VEHICLE!

RATHER A LAB THAN A SCHOOL THE WORKSHOP IS THE PLACE WHERE * TOOLS + MATERIAL + INAGINATION * AND A PINCH OF HIDDEN KNOWLEDGE TAKE FORM ONTO A ROCKET







2001-2008: THE FAMOUS MICRO-ROCKETS



YOUNG ENGINEERS (NECESSARY)



DESIGN (RECOMMENDED)



TEAM WORK
(MANDATORY)



CREATIVITY (INDISPENSABLE)



LAUNCH PAD

WOW!









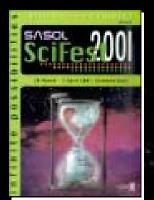








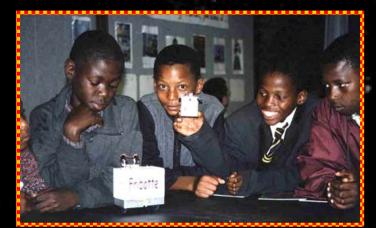
2001: "YOU ARE THE ROBOT" EXHIBITION



OUR EXHIBITION AIMED AT MAKING PEOPLE MORE SENSITIVE TO ROBOTICS, STARTING FROM THE IDEA THAT FEW PEOPLE KNOW THE TRUE DEFINITION OF THE WORD 'ROBOT'

WE PROPOSED TO MAKE THE PUBLIC FEEL LIKE A ROBOT BY TAKING AWAY, FROM ONE OR MANY PEOPLE, ONE THE 5 SENSES: SIGHT





THEN WE PROPOSED THE KIDS TO OBSERVE THE BEHAVIOUR OF A VERY BASIC ROBOT (LENT BY THE FRENCH ROBOTICS TEAM FRIBOTTE) BEFORE CONCLUDING ABOUT THE DEFINITION OF A ROBOT





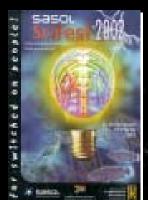








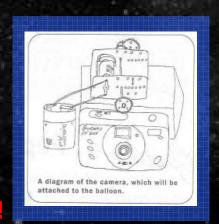
2002: WEATHER BALLOON



PURPOSE: DESIGN AND MANUFACTURE A SCIENTIFIC BASKET AND ITS CONTENT WITH A GROUP OF YOUTH.



WORKSHOP SCHEDULE:
13 KIDS, 3 HOURS PER DAY
OVER 1 WEEK: CHALLENGING!





WELL DEVELOPED IN FRANCE, THIS PROGRAMME AIMS AT:

- MAKING YOUTH DEVELOP A PROJECT WITH CONSTRAINTS
- **ORGANIZING A LONG TERM PROJECT**
- MAKING YOUTH WORK TOGETHER ON THE SAME TOPIC.







2003: MONTGOLFIERE (HOT AIR BALLOON)



* JOSEPH AND ETIENNE MONTGOLFIER INVENTTED THE HOT AIR * OPEN * BALLOON (MONTGOLFIERE) THAT FIRST FLEW OVER PARIS IN 1972. DURING THIS WORKSHOP YOU WILL LEARN WHY THE BALLOON FLIES AND WILL MANUFACTURE TWO MONTGOLFIERES TO BE LAUNCHED IN THE FOUNTAIN COURT AT THE MONUMENT AT 12 NOON! * - FROM SICFEST PROGRAM















2004: 100% MECHANICAL ROBOT



THE ROBOTICS WORKSHOP IS BASED ON 3 CHALLENGES:

■NO TABLE FALL: YOUR ROBOT MUST NOT FALL FROM THE TABLE!

■SCORE IT: YOUR ROBOT MUST DROP A PING-PONG BALL IN A BASKET

■TOUCH'N BACK: YOUR ROBOT MUST REACH THE WALL AND COME BACK



BUT HOW CAN I MAKE A ROBOT TO MEET ONE OF THEM?

- 1. FIRST DRAW A ROBOT AND DESCRIBE IT TO THE GROUP
- 2. THEN DISCOVER TOGETHER SOME SIMPLE MECHANISMS
- 3. CHOOSE A CHALLENGE
- 4. PICK THE AVAILABLE MATERIAL AND DO IT YOURSELF!

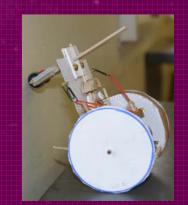








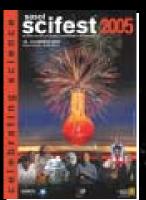








2005: TELECOMMUNICATIONS



IN 1793 THE CHAPPE BROTHERS ESTABLISHED THE FIRST COMMERCIAL SEMAPHORE SYSTEM BETWEEN TWO LOCATIONS NEAR PARIS. EVEN NAPOLEON THOUGHT THIS WAS A GREAT IDEA. SOON THERE WERE SEMAPHORE SIGNALLING SYSTEMS COVERING THE MAIN CITIES OF FRANCE. THIS TELECOMMUNICATION SYSTEM SPREAD TO ITALY, GERMANY AND RUSSIA - AND ALL THE WAY TO THE TIP

FOR SCIFEST, AND THANKS TO THE EMBASSY OF FRANCE, TWO SEMAPHORES HAVE BEEN CONSTRUCTED SO THAT MESSAGES CAN BE SENT BETWEEN THE FORT AND THE "FIELD STATION" - SITUATED WITHIN RUNNING DISTANCE OF THE MONUMENT!





OF AFRICA TO GOOD OLD GRAHAMSTOWN!



KIDS ALSO
BUILT THEIR
OWN
SEMAPHORE
& CODE
TO PLAY
HANGMAN,
BATTLESHIP...



SCICLUNA - SAASTEC 2008

2001-2008: UNINTERRUPTED PRESENCE OF THE FRENCH LABORATORY AT SCIFEST AFRICA





2006: WEATHER BALLOON, SATELLITE











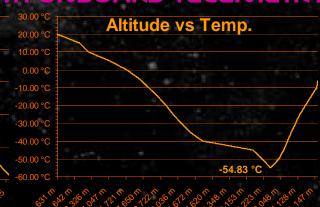


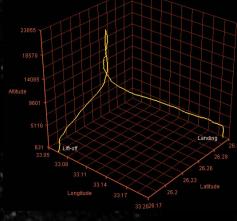














A SATELLITES DISCOVERY ROOM, TO FEEL, **EXPERIENCE AND** MANUFACTURE **LEARNING, ORBITING...**









SCICLUNA - SAASTEC 2008





2007: THE SPACE CONNECTION



THEY'RE ORBITING ABOVE OUR HEADS, WE CAN'T SEE THEM, BUT THEY ARE PART OF OUR EVERYDAY LIFE. SATELLITES HAVE BECOME INDISPENSABLE. THE EMBASSY OF FRANCE INVITES YOU TO UNDERSTAND WHAT A SATELLITE IS, HOW IT WORKS AND THE DIFFERENT USAGES, THROUGH A COMPREHENSIVE SET OF WORKSHOPS & EXHIBITION

- BUILD: LEARN ABOUT SATELLITES USAGE, AND ASSEMBLE YOUR OWN
- **DESIGN: DESIGN A SATELLITE LIKE AN ENGINEER TO MEET THE LAUNCH CONSTRAINTS**
- MISSION CONTROL: MANOEUVRE YOUR SATELLITE, LIVE, AND "USE" A TRUE SATELLITE

CSIR our future through science

EXHIBITION: DISCOVER SATELLITE IMAGERY WITH SPOT







SCICLUNA – SAASTEC 2008

2001-2008: UNINTERRUPTED PRESENCE OF THE FRENCH LABORATORY AT SCIFEST AFRICA





2008: WATER ROCKETS & SOLARPODS



HOW FUN CAN IT BE TO LAUNCH A ROCKET IN THE AIR WITH JUST ... WATER AND AIR ? EXPERIENCE WITH US THE FUN OF THE LAUNCHING AND THE MULTIPLE POSSIBILITIES

OFFERED BY WATER ROCKETS

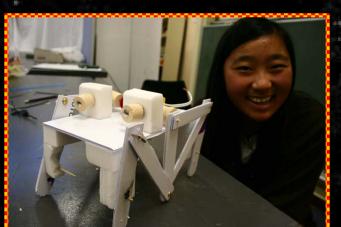












2 LEGS, 4 LEGS, 6 LEGS, 8 LEGS? **HOW MANY DOES IT TAKE FOR A ROBOT TO WIN A SPEED RACE? HOW EFFICIENTLY CAN A ROBOT TAKE** ADVANTAGE OF THE SOLAR ENERGY? TEAM UP, WARM UP YOUR BRAINS

AND COME TO BUILD UP THE FASTEST LEGGED ROBOT FROM A SOLAR CELL, A MOTOR AND YOUR IMAGINATION.



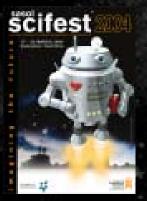


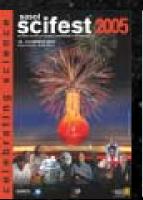
REMARKED & AWARDED CONTRIBUTION

















5 AWARDS IN 8 YEARS











2001-2008: UNINTERRUPTED PRESENCE OF THE FRENCH LABORATORY AT SCIFEST AFRICA





THANK YOU! SEE YOU NEXT YEAR @



