

Holiday Programme

Wonders of H2O

7 December 2019 - 12 January 2020

TIME & VENUE	SATURDAY 07 DECEMBER	SUNDAY 08 DECEMBER	MONDAY 09 DECEMBER	TUESDAY 10 DECEMBER	WEDNESDAY 11 DECEMBER	THURSDAY 12 DECEMBER	FRIDAY 13 DECEMBER	SATURDAY 14 DECEMBER	SUNDAY 15 DECEMBER	
10:00 - 10:45 VENUE	Fathomless Solvent Dow Lab	Wonders of Wetlands Sangari Lab	Waterology Sir Aaron Klug	Water Fountain Sangari Lab	Hydropower Dow Lab	Wonders of Wetlands Sangari Lab	Hydraulics Sytems Festo Lab	Smart Water Technology Booster Festo Lab	Mini-Yatcht Sir Aaron Klug	
11:30 -12:15 VENUE	Bubbling Blob Sangari Lab	Water Bottle Tornado Sangari Lab	Smart Water Technology Booster Festo Lab	Urban Water Supply Sydney Brenner	Over and Under Game Sydney Brenner	Water through the Ages Sydney Brenner	Centre Closed	Water Bottle Tornado Sangari Lab	Waterology Sir Aaron Klug	
13:00 - 14:00 VENUE	The Molecule of life Science Show Auditorium							The Molecule of Life Science Show Auditorium		
14:30 - 15:15 VENUE	Hydropower Dow Lab	Mini-Yatcht Sir Aaron Klug	Pump it Up Dow Lab	Fathomless Solvent Dow Lab	Bubbling Blob Sangari Lab	Fathomless solvent Dow Lab			Water Fountain Sangari Lab	Pump it Up Dow Lab
TIME & VENUE	MONDAY 16 DECEMBER	TUESDAY 17 DECEMBER	WEDNESDAY 18 DECEMBER	THURSDAY 19 DECEMBER	FRIDAY 20 DECEMBER	SATURDAY 21 DECEMBER	SUNDAY 22 DECEMBER	MONDAY 23 DECEMBER	TUESDAY 24 DECEMBER	
10:00 - 10:45 VENUE	Hydraulics Sytems Festo Lab	Water Fountain Sangari Lab	Waterology Sir Aaron Klug	Pump it Up Dow Lab	Bubbling Blob Sangari Lab	Hydraulics Sytems Festo Lab	Wonders of Wetlands Sangari Lab	Water Bottle Tornado Sangari Lab	Mini-Yatcht Sir Aaron Klug	
11:30 -12:15 VENUE	Fathomless Solvent Dow Lab	Reduce, Reuse Water game Sydney Brenner	Over and Under Game Sydney Brenner	Reduce, Reuse Water game Sydney Brenner	Water through the Ages Sydney Brenner	Waterology Sir Aaron Klug	Smart Water Technology Booster Festo Lab	Bubbling Blob Sangari Lab	Centre Closed	
13:00 - 14:00 VENUE	The Molecule of life Science Show Auditorium									
14:30 - 15:15 VENUE	Bubbling Blob Sangari Lab	Water Bottle Tornado Sangari Lab	Smart Water Technology Booster Festo Lab	Wonders of Wetlands Sangari Lab	Hydropower Dow Lab	Mini-Yatcht Sir Aaron Klug	Pump it Up Dow Lab	Water Fountain Sangari Lab		

TIME & VENUE	WEDNESDAY 25 DECEMBER	THURSDAY 26 DECEMBER	FRIDAY 27 DECEMBER	SATURDAY 28 DECEMBER	SUNDAY 29 DECEMBER	MONDAY 30 DECEMBER	TUESDAY 31 DECEMBER	WEDNESDAY 01 JANUARY	THURSDAY 02 JANUARY	
10:00 - 10:45 VENUE	Centre Closed	Hydropower Dow Lab	Fathomless Solvent Dow Lab	Waterology Sir Aaron Klug	Water Fountain Sangari Lab	Hydropower Dow Lab	Smart Water Technology Booster Festo Lab	Centre Closed	Mini-Yatcht Sir Aaron Klug	
11:30 -12:15 VENUE		Smart Water Technology Booster Festo Lab	Bubbling Blob Sangari Lab	Smart Water Technology Booster Festo Lab	Wonders of Wetlands Sangari Lab	Pump it Up Dow Lab	Hydraulics Sytems Festo Lab		Fathomless Solvent Dow Lab	
13:00 - 14:00 VENUE		The Molecule of life Science Show Auditorium							Centre Closed	The molecule of life Science Show Auditorium
14:30 - 15:15 VENUE		Wonders of Wetlands Sangari Lab	Mini-Yatcht Sir Aaron Klug	Hydraulics Sytems Festo Lab	Over and Under Game Sydney Brenner	Water Bottle Tornado Sangari Lab	Mini-Yatcht Sir Aaron Klug			

TIME & VENUE	FRIDAY 03 JANUARY	SATURDAY 04 JANUARY	SUNDAY 05 JANUARY	MONDAY 06 JANUARY	TUESDAY 07 JANUARY	WEDNESDAY 08 JANUARY	THURSDAY 09 JANUARY	FRIDAY 10 JANUARY	SATURDAY 11 JANUARY
10:00 - 10:45 VENUE	Waterology Sir Aaron Klug	Reduce, Reuse Water game Sydney Brenner	Wonders of Wetlands Sangari Lab	Water Fountain Sangari Lab	Bubbling Blob Sangari Lab	Hydraulics Sytems Festo Lab	Mini-Yatcht Sir Aaron Klug	Hydropower Dow Lab	Water through the Ages Sydney Brenner
11:30 -12:15 VENUE	Hydropower Dow Lab	Pump it up Dow Lab	Smart Water Technology Booster Festo Lab	Fathomless Solvent Dow Lab	Waterology Sir Aaron Klug	Wonders of Wetlands Sangari Lab	Waterology Sir Aaron Klug	Smart Water Technology Booster Festo Lab	Wonders of Wetlands Sangari Lab
13:00 - 14:00 VENUE	The Molecule of life Science Show Auditorium								
14:30 - 15:15 VENUE	Fathomless Solvent Dow Lab	Hydraulics Sytems Festo Lab	Water Bottle Tornado Sangari Lab	Mini-Yatcht Sir Aaron Klug	Hydropower Dow Lab	Pump it Up Dow Lab	Water Fountain Sangari Lab	Water Bottle Tornado Sangari Lab	Fathomless Solvent Dow Lab

TIME & VENUE	SUNDAY 12 JANUARY
10:00 - 10:45 VENUE	Pump it Up Dow Lab
11:30 -12:15 VENUE	Bubbling Blob Sangari Lab
13:00 - 14:00 VENUE	The Molecule of life Science Show Auditorium
14:30 - 15:15 VENUE	Mini-Yatcht Sir Aaron Klug



PLANETARIUM
@ Sci-Bono Discovery Centre

Daily Planetarium Shows
Times: 10:50 - 11:20 | 15:30 - 16:00
Cost: R10 (Excl. Entrance Fee)

FLOOR ACTIVITIES

Liquid Nitrogen Ice Cream: 14:00 - 14:30 Daily	R10.00
H2O Today Theatrical Performance 12:15 - 13:00 Monday- Saturday	All Ages (Free)
Exploring Ecosystems	All Ages (Free)
Life in the Arctic	All Ages (Free)

WATEROLOGY Venue: Sir Aaron Klug	AGE	COST
Summer learning with water experiments, get ready to get wet as we experiment with different household materials and water. See what absorbs water, what sinks or floats in water and what dissolves in water.	5+	FREE

THE FATHOMLESS SOLVENT Venue: Dow Lab	AGE	COST
A solvent is a substance that can dissolve many substances. Water can dissolve many substance, but can it be considered to be universal solvent? Find out this Holiday Programme if there is an universal solvent in The Fathomless Solvent?	6+	R15

THE MOLECULE OF LIFE SCIENCE SHOW Venue: SAP Auditorium	AGE	COST
Join us in a stream of molecules of life, looking at its composition and the importance of its elements.	All	Free

LIFE IN THE ARCTIC Venue: Mills Space	AGE	COST
Arctic region is situated in the northernmost region of the Earth. It is almost entirely covered by water, much of it frozen and seasonally v arying snow. It is also home to lots of wonderful wildlife like polar bears, Seals and many more! Come and have fun with us as we explore Life in the Arctic with interesting Experiments.	All	Free

SMART WATER TECHNOLOGY BOOSTER Venue: Festo Lab	AGE	COST
Low water pressure can make simple tasks like bathing or brushing your teeth a hassle, but a Smart water booster Technology may be the perfect solution. Help us build a system that creates an area of low pressure and helping to lift or propel the water with help from atmospheric pressure.	7+	R15

HYDROPOWER Venue: Dow Lab	AGE	COST
Apart from consumption purposes, water can have many other uses. One of them is by converting the energy of moving water to produce electricity. This is a very important method as it is renewable and cause no harm to our planet. There no better way of exploring the working principle of hydropower than making your own model which produces rotational motion when placed in running water.	6+	R10

WONDERS OF WETLANDS Venue: Sangari Lab	AGE	COST
Wetlands are areas saturated with water, either permanently/ seasonally, such that it takes on the characteristic of a distinct ecosystem. They play a crucial role in a number of spheres in our lives from being a habitat, filtering sediments and nutrients, flood mitigation and water purification among others. South Africa has a number of wetlands to sustain the ecosystems. Join us as we make our own wetland and experience the importance of this biological phenomenon.	6+	R20

HYDRAULICS SYSTEMS Venue: Festo Lab	AGE	COST
Can the force be applied to one point of a fluid and be transmitted and felt on the other point of the fluid? Yep! That happens in the hydraulics system when an incompressible fluid usually oil is used to move energy from one point to another. Come let's use water as our fluid in a simple DIY hydraulic gadget, where we will gain more insight into concepts like force, energy, pressure, etc.	7+	R15

WATER FOUNTAIN Venue: Sangari Lab	AGE	COST
All living things must have water to survive, whether they get it from a water fountain or a rain cloud. Water fountains can be natural or man-made. Most of man- made water fountains uses electricity. Join us when we make our own water fountain without using electricity.	6+	R10

BUBBLING BLOB Venue: Dow Lab	AGE	COST
Learn how to make a wave bottle using oil, water, and a secret ingredient that makes the whole ... the whole thing fizz, bubble, and erupt like lava.	5+	R10

WATER BOTTLE TORNADO Venue: Dow Lab	AGE	COST
Join us make your own mini tornado that's a lot safer than one you might see on the weather channel. Learn how to make a tornado in a bottle with this fun science experiment using easy to find items.	7+	R15

HYDROGEN FUEL CELL Venue: Festo Lab	AGE	COST
Water can be split into its components hydrogen and oxygen gases through the process of electrolysis. Hydrogen can be recombined with oxygen to produce water, more interestingly, electricity is produced in the process and a renewable one. Join us as we learn more about these process doing hydrogen fuel cell cars.	7+	R10

PUMP IT UP Venue: Dow Lab	AGE	COST
Now let's turn our focus on one of the ways of obtaining water from underground and wells, the hand pump. The mechanisms of some pumps can be complicated and difficult to understand, but rest assured the Mini Hand Water Pump you will make will be a piece of cake. Most importantly there will be a lot of learning in the making process and the functioning of each components enclosed in transparent materials.	7+	R15

MINI YACHT Venue: Sangari Lab	AGE	COST
Ever wondered what keeps the boat which weighs a thousand of tons afloat in water, and how does it propel forward and keep stable. Join us as we make our own mini boat.	6+	R10

PLANETERIUM Venue: Ground Floor	AGE	COST
Let us take a journey through time from the violent birth of our planet four and a half billion years ago, through ice-ages, massive volcanic eruptions and the dinosaurs' reign to the first humans.	ALL	R10

EXPLORING ECOSYSTEMS Venue: Mills Space	AGE	COST
Wetlands are the link between land and water, and are some of the most productive ecosystems in the world. Depending on its type, it may be filled with trees, grasses, shrubs or moss. Come join us as we explore the importance of wetlands.	ALL	Free

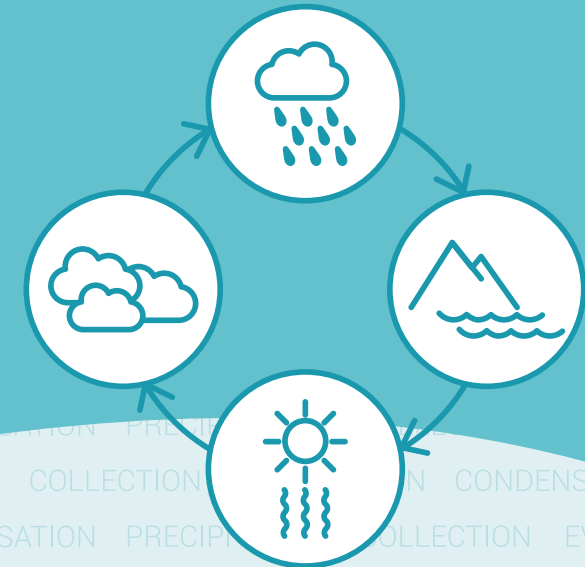
LIQUID NITROGEN ICE CREAM Venue: Mills Space	AGE	COST
Did you know that liquid nitrogen can be used to make ice cream? It's been described as the five minute way to make amazing ice cream. No cranking... no ice and rock salt mixtures... and you can forget about those electric ice cream makers. Do you wonder how does it taste? Join us to explore and tantalize your taste buds with a five minutes' delicious ice cream.	ALL	R10

URBAN WATER SUPPLY Venue: Sydney Brenner	AGE	COST
Where does my tap water comes from?	ALL	FREE

REUSE REDUCE GAME Venue: Sydney Brenner	AGE	COST
How to use your water wisely	ALL	FREE

WATER THROUGH THE AGES Venue: Sydney Brenner	AGE	COST
A look at Water and the use of water through history, especially in a South African context	ALL	FREE

OVER AND UNDER GAME Venue: Sydney Brenner	AGE	COST
Every Drop Counts	ALL	FREE



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