

ECO-WARRIORS

HOLIDAY PROGRAMME

1 - 17 APRIL 2017

Let's go Green this holiday @ Sci-Bono Discovery Centre as we explore interesting and cool ways that will help us look after our environment and help protect it! From investigating Green House gases and experimenting with renewable energy resources to building useful gadgets out of recyclable materials, this holiday it's all about going green!...After all we only have one planet Earth so let's do our bit to protect it!

The programme runs daily from 10:00am to 15:30pm from 1 - 17 April 2017.



WORKSHOPS TIMETABLE

TIME	SATURDAY 1 APRIL	SUNDAY 2 APRIL	MONDAY 3 APRIL	TUESDAY 4 APRIL	WEDNESDAY 5 APRIL	THURSDAY 6 APRIL	FRIDAY 7 APRIL
10:00 - 11:00	Toys from Trash	Dung Power	Acid Mine Drainage	Going Solar	Toys from Trash	Dung Power	Acid Mine Drainage
VENUE	Allan Cormack	Life Science Lab	Dow Lab	Festo Lab	Allan Cormack	Life Science Lab	Dow Lab
11:30 - 12:30	Harnessing the Wind	Eco-Hunt	Be Eco-Wise!	Firing up Fuel Cells	Harnessing the Wind	Eco-Hunt	Be Eco-Wise!
VENUE	Festo Lab	Meet at Reception	Allan Cormack	Allan Cormack	Festo Lab	Meet at Reception	Allan Cormack
13:00 - 14:00	A Pollutant's Tale						
VENUE	SAP Auditorium						
14:30 - 15:30	Terrific Terrarium	Pop Pop Boat	Trash Trekking Robots	Hydropower	Terrific Terrarium	Pop Pop Boat	Trash Trekking Robots
VENUE	Dow Lab	Allan Cormack	Clubhouse	Life Science Lab	Dow Lab	Allan Cormack	Clubhouse

TIME	SATURDAY 8 APRIL	SUNDAY 9 APRIL	MONDAY 10 APRIL	TUESDAY 11 APRIL	WEDNESDAY 12 APRIL	THURSDAY 13 APRIL	FRIDAY 14 APRIL
10:00 - 11:00	Going Solar	Toys from Trash	Dung Power	Acid Mine Drainage	Going Solar	Toys from Trash	Centre Closed
VENUE	Festo Lab	Allan Cormack	Life Science Lab	Dow Lab	Festo Lab	Allan Cormack	
11:30 - 12:30	Firing up Fuel Cells	Harnessing the Wind	Eco-Hunt	Be Eco-Wise!	Firing up Fuel Cells	Harnessing the Wind	
VENUE	Allan Cormack	Festo Lab	Meet at Reception	Allan Cormack	Allan Cormack	Festo Lab	
13:00 - 14:00	A Pollutant's Tale						
VENUE	SAP Auditorium						
14:30 - 15:30	Hydropower	Terrific Terrarium	Pop Pop Boat	Trash Trekking Robots	Hydropower	Terrific Terrarium	
VENUE	Life Science Lab	Festo Lab	Dow Lab	Clubhouse	Life Science Lab	Dow Lab	

SCIENCE SHOWS

A POLLUTANT'S TALE	AGE	COST
With global warming being the talk of the nation, it is important for us to understand the properties of gases that make up our atmosphere. The Pollutant's Tale is an exciting science show packed with mind-blowing demonstrations where we experiment with the gases that make-up the air around us and explore the vital role they play in our lives.	ALL	FREE

DIGITAL PLANETARIUM	AGE	COST
Starry skies are vanishing treasures because light pollution is wiping out our view of the cosmos. It not only threatens astronomy, it disrupts wildlife, and affects human health. The yellow glows over cities and towns, seen so clearly from space, are a testament to the billions spent in wasted energy. Join as we explore the effects of light pollution & how Earth is protected from space weather.	ALL	R10
Show Times: 11:00 12:30 14:00 15:30		



PLANETARIUM
@ Sci-Bono Discovery Centre

Terms and Conditions Apply: Workshops subject to change without prior notice. Limited seats available. First come first serve basis. All tickets can be purchased at reception.

WORKSHOPS TIMETABLE (continued)

TIME	SATURDAY 15 APRIL	SUNDAY 16 APRIL	MONDAY 17 APRIL
10:00 - 11:00	Acid Mine Drainage	Toys from Trash	Dung Power
VENUE	Dow Lab	Allan Cormack	Life Science Lab
11:30 - 12:30	Be Eco-Wise!	Harnessing the Wind	Eco-Hunt
VENUE	Allan Cormack	Festo Lab	Meet at Reception
13:00 - 14:00	A Pollutant's Tale		
VENUE	SAP Auditorium		
14:30 - 15:30	Trash Trekking Robots	Terrific Terrarium	Pop Pop Boat
VENUE	Clubhouse	Dow Lab	Allan Cormack

FLOOR ACTIVITIES

ACTIVITY	AGE	COST
SOLAR POPPED CORN We've all heard about how powerful our sun is. Join us as we explore the light from our sun and find out how we can harness this energy to pop some corn. NB. Please note that this activity is weather dependent.	ALL	R5
EXPLORING ECOSYSTEMS 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
ECO-HUNT Are you ready to become an Eco-Warrior? Adventure through the Science centre searching for clues while battling tasks in your quest to decipher the secret message.	7+	R5
RENEWABLE ENERGY TABLE What is Renewable Energy & where does it come from? Explore renewable Energy Sources like Wind, Solar, Hydro & Geothermal and find out how these energy sources can lessen the harmful impacts on our environment.	ALL	FREE

WORKSHOPS

BE ECO-WISE! Think Fast! Think Green! Test your knowledge in this Game show type quiz that explores interesting mind-boggling facts about our planet and how we can protect it!	AGE 7+	COST R5
HYDROPOWER What is Hydropower? & how is it used to create electricity? Join us as we explore this renewable energy source & build your own water turbine.	AGE 6+	COST R10
HARNESSING THE WIND Wind is a natural source of energy but how can we harness it to our advantage? In this activity, it is up to you to design a wind-powered car and win the race.	AGE 8+	COST R10
DUNG POWER Cow dung is smelly...quite smelly, but can we use it to create electricity? The current production of electricity in the world produces greenhouse gases that contribute to global warming. Let's try an alternative way as we generate electricity from cow dung.	AGE 7+	COST R5
POP POP BOAT Explore the dynamic working of this fascinating 110-year-old invention that uses a flame to create steam driven pulses of water to propel a model boat.	AGE 8+	COST R10
TERRIFIC TERRARIUM Imagine your very own miniature garden that waters itself! A terrarium is the ultimate, low-maintenance indoor garden. Come explore the importance of planting trees and build your own garden in a bottle.	AGE 6+	COST R10
FIRING UP FUEL CELLS Fuel cells appear to be the perfect way to generate clean, green electricity by combining oxygen and hydrogen to produce water with a release of energy. In this workshop, we will look at what Fuel Cell technology is, how it works and how it may develop in the future while building a model hydrogen fuel cell car.	AGE 7+	COST R5
TOYS FROM TRASH Reducing, Reusing & Recycling all help to cut down the amount of waste we throw away and help to protect our environment from pollution. Join us as we turn useless trash into ingenious gadgets.	AGE 6+	COST R5
ACID MINE DRAINAGE H ₂ O is the most important natural resource on earth. It's in the ground and air we breathe, and is one of the elements responsible for life, yet this precious commodity is under attack. Join us as we explore acids and bases and investigate Acid Mine Drainage. What it is, how it forms, and how it affects our environment?	AGE 7+	COST FREE
GOING SOLAR Solar cells are devices that can generate electricity directly from the sun's light. Find out how these cells are able to do this while exploring solar power and use this energy from the sun to power up a miniature car.	AGE 7+	COST FREE
TRASH TREKKING ROBOTS Have you ever thought about what happens to the things you throw away & where they actually end up? Learn how to program a Lego robot to complete specific tasks while becoming more environmentally conscious.	AGE 8+	COST FREE



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DISCOVERY CENTRE

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