

IN COLLABORATION WITH



# 2017

# EUREKA!

**QUEBEC'S  
BIGGEST  
SCIENCE  
CELEBRA  
TION  
AT THE  
OLD PORT**

**JUNE  
9•10•11**

[EUREKAFESTIVAL.CA](http://EUREKAFESTIVAL.CA)

**OVER 100 FREE  
ACTIVITIES!**

## THE 11<sup>th</sup> EDITION INSPIRING YOU TO DREAM

The Eureka! Festival is offering a special program this year with a focus on dreams. All scientists pursue their dreams, whatever their field of research. Whether they are trying to push the limits of the known universe, to improve the health of our planet, or to develop a revolutionary invention, they are driven and guided by their dreams and aspirations. Discover how they transform their dreams into reality.

The Eureka! Festival is a unique opportunity to meet real scientists and immerse yourself in science. There are dozens of activities to discover: spectacular shows, inspiring presentations, dynamic workshops and unforgettable encounters with people who are involved in science every day. No need to pinch yourself. You're not dreaming...

WITH FINANCIAL SUPPORT FROM



L'ÎLE  
DU  
SAVOIR



SCIENCE  
CENTRE

# EUREKA!

11<sup>th</sup> EDITION



Behind every scientific discovery is a dream. The dream of a world free of disease or pollution or climate change. The dream of discovering new planets. I am amazed at so many discoveries.

A festival like Eureka! is the result of many people's dreams, dreams that will inspire you to dream and be amazed in turn. What an irresistible offer!

MARTIN CARLI  
SPOKESPERSON



#festivaleureka

eurekafestival.ca



**FRIDAY  
JUNE 9**  
9:30 am to 3:30 pm

**SATURDAY  
JUNE 10**  
10:30 am to 7:30 pm  
Evening program  
starts at  
7 pm

**SUNDAY  
JUNE 11**  
10:30 am to 6 pm

# SCHEDULE

THE FESTIVAL AT A GLANCE

- WORKSHOPS
- SHOWS AND PRESENTATIONS
- NOT TO BE MISSED!

## FRIDAY

### 9:30 AM

- 16 Birds of Prey p. 27
- 37 The Magic of Chemistry p. 24

### 9:30 AM TO 1 PM

- 18 Film Shoot p. 28

### 9:30 AM TO 3:30 PM

- C Attention to Tension p. 14
- B Interactive Fountains p. 14
- 14 Popsicle Bridge Challenge p. 27

### 9:45 AM

- 17 Paleontologists, Grab Your Tools! p. 28
- 15 Pinch Me, I'm Dreaming! p. 20

### 10:30 AM

- 16 Birds of Prey p. 27

### 10:45 AM

- 17 Paleontologists, Grab Your Tools! p. 28
- 37 Insects on Stage p. 24

### 11 AM

- 15 Interstellar Journey to New Worlds p. 20

### 11:45 AM

- 16 Science Illustrated p. 28

### NOON

- 17 Chem In A Flash p. 28
- 37 Awards Presentation – Fonds de recherche du Québec p. 25
- 15 On the Back of A Gull p. 21

### 12:45 PM

- 16 Science Illustrated p. 28
- 37 Raptors: Masters of the sky p. 25

### 1 PM

- 17 Chem In A Flash p. 28

### 1:15 PM

- 15 Dreams, Premonitions and Nightmares: True or False? p. 21

### 1:45 PM

- 16 Science Illustrated p. 28
- 37 Raptors: Masters of the sky p. 25

### 1:45 PM TO 3:30 PM

- 18 Film Shoot p. 28

### 2:45 PM

- 16 Science Illustrated p. 28

## SATURDAY

### 10:30 AM TO 7:30 PM

- 14 Popsicle Bridge Challenge p. 27
- C Attention to Tension p. 14
- B Interactive Fountains p. 14
- E Tree of Dreams p. 15

### 10:30 AM TO 1:15 PM

- 17 Dream Up a Sustainable City p. 28

### 11 AM

- 15 Penguin Island p. 21
- 16 Crazy Bubbles p. 28

### 11 AM TO 3 PM

- 18 Brain Power p. 28

### 11:15 AM

- 37 Booboo Survival Guide p. 25

### NOON

- 15 Spying on Chipmunks p. 21

### NOON TO 5 PM

- D Sidewalk Dreams p. 14

### NOON TO 6 PM

- A  I Molecular Ice Cream p. 14

### 12:15 PM

- 16 Crazy Bubbles p. 28

### 12:30 PM

- 37 Science or Magic 3: The Incredible Experiment p. 25

### 1 PM TO 5 PM

- F Troubadour Stage p. 15

### 1:15 PM

- 15 Masters of the Rubik's Cube p. 21

### 1:30 PM

- 16 Crazy Bubbles p. 28

### 1:45 PM TO 4:45 PM

- 17 Rollicking Reptiles p. 28

### 2 PM

- 37 The Magic of Chemistry p. 24

### 2:15 PM

- 15 Tracking the Dream p. 21

### 3:15 PM

- 16 Slippery Slime p. 29
- 37 Drones Among Us! p. 25

### 3:30 PM

- 15 Dreaming up Music p. 22

### 3:30 PM TO 7:30 PM

- 18 Creating Sound in Real Time p. 29

### 4 PM

- G Gushing Geysers p. 15

### 4:15 PM

- 16 Slippery Slime p. 29

### 4:30 PM

- 37 Booboo Survival Guide p. 25

# FESTIVAL SITE MAP

## 4:30 PM

15 Animal Conservation: Not Such a Crazy Dream p. 22

## 5:15 PM

16 Slippery Slime p. 29

## 5:30 PM

17 The Weight of Air p. 29

15 Science Hits the Road p. 22

## 6:15 PM

16 Slippery Slime p. 29

## 6:30 PM

17 The Weight of Air p. 29

15 A Canadian Telescope in Hawaii? p. 22

## 7 PM

H High-tech Comedy p. 15

## 8 PM

37 An Evening with *Génial!* p. 15

## 9:15 PM

H High-tech Comedy p. 15

# SUNDAY

## 10:30 AM TO 6 PM

14 Popsicle Bridge Challenge p. 27

C Attention to Tension p. 14

B Interactive Fountains p. 14

E Tree of Dreams p. 15

## 10:45 AM

17 Energy in All Its Forms p. 29

## 10:45 AM TO 1:45 PM

18 Science at Play p. 29

## 11 AM

16 Science Illustrated p. 28

## 11:15 AM

15 Masters of the Rubik's Cube p. 21

## 11:30 AM

37 Insects on Stage p. 24

## 11:45 AM

17 Energy in All Its Forms p. 29

## NOON

15 Math Rocks! p. 22

16 Science Illustrated p. 28

## NOON TO 5 PM

D Sidewalk Dreams p. 14

## NOON TO 6 PM

A I Molecular Ice Cream p. 14

## 12:45 PM

17 Energy in All Its Forms p. 29

## 1 PM

37 Solar Adventures p. 25

## 1 PM TO 5 PM

F Troubadour Stage p. 15

## 1:15 PM

15 Dreams, Premonitions and Nightmares: True or False? p. 21

## 1:30 PM

16 Rubik's Cube is Too Easy p. 29

## 2 PM

17 Movie Magic p. 29

## 2:15 PM

37 Raptors: Masters of the sky p. 25

## 2:30 PM

15 Science on the Set p. 23

16 Rubik's Cube is Too Easy p. 29

## 2:30 PM TO 6 PM

18 Ecodesign, Jewellery and Accessories p. 29

## 3 PM

17 Movie Magic p. 29

## 3:15 PM

37 Raptors: Masters of the sky p. 25

## 3:30 PM

15 Dream of Magnetic Levitation! p. 23

## 3:45 PM

16 Slippery Slime p. 29

## 4 PM

17 Movie Magic p. 29

G Gushing Geysers p. 15

## 4:45 PM

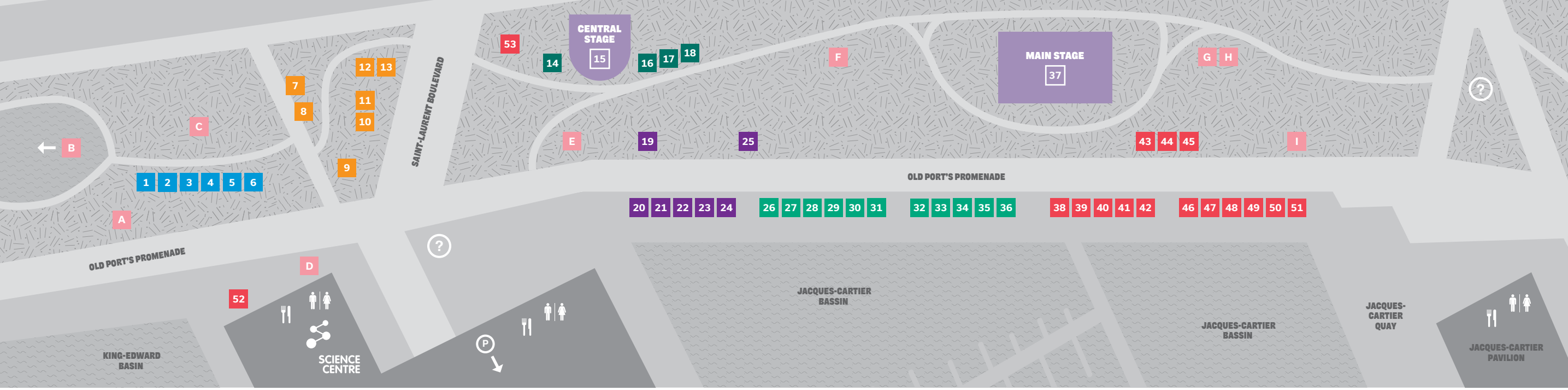
15 Premature Babies: Tiny Beings, Big Challenges! p. 23

16 Slippery Slime p. 29

37 The Magic of Chemistry p. 24

## 5 PM

17 Movie Magic p. 29



### NOT TO BE MISSED!

- A I** Molecular Ice Cream
- B** Interactive Fountains
- C** Attention to Tension
- D** Sidewalk Dreams
- E** Tree of Dreams
- F** Troubadour Stage
- G** Gushing Geysers
- H** High-tech Comedy

### SUSTAINABLE DEVELOPMENT ZONE

- 1** Gaz Métro
- 2** Centre d'interprétation de l'eau (C.I.EAU)
- 3** Ministère de l'Énergie et des Ressources naturelles
- 4** Environment and Climate Change Canada
- 5** La Shop Agricole
- 6** Science de la Terre et de l'atmosphère – UQAM

### HUMAN ZONE

- 7 8** Héma-Québec and the Association of Blood Donation Volunteers (ABDV)
- 9** Service de sécurité incendie de Montréal – SIMulateur
- 10** Centre for Applied Synthetic Biology
- 11** Armand-Frappier Museum
- 12** Polytechnique Montréal – PolyCortex
- 13** Les Scientifines

### WORKSHOPS

- 14** ÉTS – Popsicle Bridge Challenge
- 16 17 18** Workshops

### AIR AND SPACE ZONE

- 19** Polytechnique Montréal – PolyOrbite
- 20** Center for Research in Astrophysics of Québec (CRAQ) – Canada France Hawaii Telescope (CFHT)
- 21** MDA Corporation
- 22** Cosmodome
- 23** Aéro Montréal – Quebec's Aerospace Cluster
- 24** Réseau Technoscience
- 25** ULM Quebec

### STAGES

- 15** Central Stage
- 37** Main Stage

### NATURE ZONE

- 26** Le Groupe uni des éducateurs-naturalistes et professionnels en environnement (GUEPE)
- 27** Musée de paléontologie et de l'évolution (MPE)
- 28** Les Clubs 4-H du Québec
- 29** Faculty of Arts and Science – Université de Montréal
- 30** Regroupement des étudiants-chercheurs en sciences de l'Université de Sherbrooke
- 31** Parc de la Rivière-des-Mille-Îles
- 32 33 34 35 36** Parks Canada

### INGENUITY ZONE

- 38** Montreal Digital Spring – PopcornFX
- 39** BOOM Scientific
- 40** J. Armand Bombardier Museum of Ingenuity – Imaginative
- 41** Ruelle de l'avenir
- 42** Let's Talk Science McGill
- 43** Association francophone pour le savoir (ACFAS) – Natural Sciences and Engineering Research Council of Canada (NSERC)
- 44** OuiShare – Hochelab
- 45** Communautaire
- 46** Fédération des Inventeurs du Québec
- 47** Polytechnique Montréal – OSA and SPIE Student Chapter
- 48** Polytechnique Montréal – Archimede
- 49** Polytechnique Montréal – PolyProject
- 50** Université de Sherbrooke
- 51** NAD
- 52** Montreal Science Centre
- 53** Concertation Montréal



# NOT TO BE MISSED

SCIENCE FROM EVERY ANGLE!

## **A I** MOLECULAR ICE CREAM ATTRACTION CHIMIQUE – UNIVERSITÉ LAVAL

Liquid nitrogen is so “cool” that you can use it to make ice cream almost instantly. The ice-cream professors from Attraction Chimique will show you how and let you taste the results.

SATURDAY AND SUNDAY: NOON – 6 PM

## **B** INTERACTIVE FOUNTAINS LASER QUANTUM

Head for the interactive terminals where you can control the Old Port fountains. Make the water jets rise more than 20 meters into the air! 1, 2, 3... Go.

CONTINUOUS

## **C** ATTENTION TO TENSION VOILES EN VOILES

Experience the science behind zip lines like the ones at the Voiles en Voiles theme park. The tension there is calculated to provide fun and thrills while keeping you safe.

CONTINUOUS

## **D** SIDEWALK DREAMS CATHERINE PETIT, ILLUSTRATOR

Are your children’s dreams filled with imaginary animals, trees and flowers, starry skies? Invite them to colour the magical universe created by a children’s book illustrator.

SATURDAY AND SUNDAY: NOON – 5 PM

## **E** TREE OF DREAMS LUCION TRAVELLING LIGHT

Tell your wildest scientific dreams to a virtual tree that will unfurl before your very eyes. Be daring. When you dream, anything goes!

SATURDAY AND SUNDAY – CONTINUOUS

## **F** TROUBADOUR STAGE

The stage may be tiny, but the talent of these artists is huge. Do you dream of appearing on stage? You could be chosen to strut your stuff and impress the spectators between shows!

SATURDAY AND SUNDAY: 1 PM – 5 PM

## **G** GUSHING GEYSERS EOPYBIRD

An explosive encounter between a soft drink and menthol candies. This hair-raising, hilarious American duo use candy fuel to propel geysers over 7 meters into the air. You’ll be inspired to dream of the world’s most famous fountains.

SATURDAY AND SUNDAY: 4 PM



# NIGHT PROGRAMMING

SCIENCE UNDER THE STARS



## 37 AN EVENING WITH GÉNIAL! FROM TÉLÉ-QUÉBEC

Télé-Québec is transporting its award-winning quiz show *Génial!* to the Festival stage. With humour and panache, hosts Stéphane Bellavance and Martin Carli will present surprising science demonstrations and experiments in a show guaranteed to delight the entire family.

SATURDAY: 8 PM

DURATION: 60 MINUTES – IN FRENCH

Free tickets available in limited quantity at the Festival information booth, Friday, June 9 and Saturday, June 10. Limit of four (4) tickets per person

## **H** HIGH-TECH COMEDY AUDIOBODY

Check out the talent of this brilliant duo! A dream-worthy mix of circus arts, comedy, lighting effects and electronic music.

SATURDAY: 7 PM AND 9:15 PM  
(FOLLOWING AN EVENING WITH GÉNIAL!  
FROM TÉLÉ-QUÉBEC)

# CONTINUOUS ACTIVITIES

SCIENCE  
UNDER THE  
BIG TOP

## SUSTAINABLE DEVELOPMENT ZONE



- 1 GAZ MÉTRO**  
RETHINKING ENERGY:  
GARBAGE POWER
- 2 CENTRE D'INTERPRÉTATION DE L'EAU (C.I.EAU)**  
SOS WATERSHED
- 3 MINISTÈRE DE L'ÉNERGIE ET DES RESSOURCES NATURELLES**  
QUÉBEC MINES DISCOVERY
- 4 ENVIRONMENT AND CLIMATE CHANGE CANADA**  
THE ST. LAWRENCE DINNER PLATE
- 5 LA SHOP AGRICOLE**  
1, 2, 3... COMPOST!
- 6 SCIENCE DE LA TERRE ET DE L'ATMOSPHÈRE – UQAM**  
WATER'S AMAZING JOURNEY

## HUMAN ZONE

- 7**
- 8**  
**HÉMA-QUÉBEC AND THE ASSOCIATION OF BLOOD DONATION VOLUNTEERS (ABDS)**  
WHAT'S YOUR BLOOD TYPE?
- 9 SERVICE DE SÉCURITÉ INCENDIE DE MONTREAL – SIMULATEUR**  
FIRE AND SMOKE WITH THE SIMULATOR
- 10 CENTRE FOR APPLIED SYNTHETIC BIOLOGY**  
SYNTHETIC BIOLOGY AND YOU
- 11 ARMAND-FRAPPIER MUSEUM**  
A CLOSER LOOK AT ALLERGIES
- 12 POLYTECHNIQUE MONTRÉAL – POLYCORTX**  
BRAIN POWERED BOAT RACE
- 13 LES SCIENTIFINES**  
WOMEN IN SCIENCE: DREAMS

# CONTINUOUS ACTIVITIES

## AIR AND SPACE ZONE

- 19 POLYTECHNIQUE MONTRÉAL – POLYORBITE**  
SPACE FOR ALL
- 20 CENTER FOR RESEARCH IN ASTROPHYSICS OF QUÉBEC (CRAQ) – CANADA FRANCE HAWAII TELESCOPE (CFHT)**  
HIDE AND SEEK WITH THE SUN
- 21 MDA CORPORATION**  
DREAMING OF NEW HORIZONS
- 22 COSMODOME**  
TRAPPIST-1: AN ALIEN SOLAR SYSTEM
- 23 AÉRO MONTRÉAL – QUEBEC'S AEROSPACE CLUSTER**  
PASSION FOR FLIGHT
- 24 RÉSEAU TECHNOSCIENCE**  
TRAVEL BY BUBBLE OR CATAPULT
- 25 ULM QUEBEC**  
FLYING: FROM DREAM TO REALITY

## NATURE ZONE

- 25 LE GROUPE UNI DES ÉDUCATEURS-NATURALISTES ET PROFESSIONNELS EN ENVIRONNEMENT (GUEPE)**  
CREATURES FROM A FAIRY TALE
- 27 MUSÉE DE PALÉONTOLOGIE ET DE L'ÉVOLUTION (MPE)**  
MONTREAL 450 MILLION YEARS AGO
- 28 LES CLUBS 4-H DU QUÉBEC**  
THE NIGHTTIME FOREST
- 29 FACULTY OF ARTS AND SCIENCE – UNIVERSITÉ DE MONTRÉAL**  
SCIENTISTS OF TOMORROW
- 30 REGROUPEMENT DES ÉTUDIANTS-CHERCHEURS EN SCIENCES DE L'UNIVERSITÉ DE SHERBROOKE**  
HEADS UP!
- 31 PARC DE LA RIVIÈRE-DES-MILLE-ILES**  
DID YOU SAY "SWAMP"?
- 32**
- 33**
- 34**
- 35**
- 36**  
**PARKS CANADA**  
ON THE ROAD TO DISCOVERY

# CONTINUOUS ACTIVITIES

## INGENUITY ZONE

- 38 MONTREAL DIGITAL SPRING – POPCORNFx**  
PAINT WITHOUT LIMITS
- 39 BOOM SCIENTIFIC**  
SCIENCE AT THE HEART OF OUR LIVES
- 40 J. ARMAND BOMBARDIER MUSEUM OF INGENUITY – IMAGINACTIVE**  
FABULOUS FUTURE VEHICLES
- 41 RUELLE DE L'AVENIR**  
HYPNOTIC ELECTRONICS
- 42 LET'S TALK SCIENCE MCGILL**  
THE SCIENTIST IN YOU
- 43 ASSOCIATION FRANCOPHONE POUR LE SAVOIR (ACFAS) – NATURAL SCIENCES AND ENGINEERING RESEARCH COUNCIL OF CANADA (NSERC)**  
SCIENCE EXPOSED
- 44 OUI SHARE – HOCHELAB**  
COLLABORATE TO INNOVATE
- 45 COMMUNAUTIQUE**  
PROTOTYPING YOUR DREAMS
- 46 FÉDÉRATION DES INVENTEURS DU QUÉBEC**  
FLASH OF GENIUS

## Fonds de recherche du Québec

- 47 POLYTECHNIQUE MONTRÉAL – OSA AND SPIE STUDENT CHAPTER**  
LASER, LASER, WHAT DO YOU SEE?
- 48 POLYTECHNIQUE MONTRÉAL – ARCHIMEDE**  
HUMAN-POWERED SUBMARINE
- 49 POLYTECHNIQUE MONTREAL – POLYPROJECT**  
ROBOTIC IMMERSION
- 50 UNIVERSITÉ DE SHERBROOKE**  
DESIGNING THE WORLD OF TOMORROW
- 51 NAD**  
VIRTUAL REALITY IN ACTION
- 52 MONTREAL SCIENCE CENTRE**  
FABRIK – CREATIVITY FACTORY
- 53 CONCERTATION MONTRÉAL**  
PROGRAMMER CHALLENGE





# INTERACTIVE SHOWS

# AND LECTURES

SCIENCE TAKES THE STAGE

## CENTRAL STAGE

■ 15

### 15 PINCH ME, I'M DREAMING!

DOMINIC BOUDREAU,  
CENTRE DE DÉMONSTRATION  
EN SCIENCES PHYSIQUES

Do you see the world as it is? What's turning – the Earth or the rest of the universe? Science can awaken your imagination and inspire you to dream.

FRIDAY: 9:45 AM  
LENGTH: 45 MINUTES – IN FRENCH

### 15 INTERSTELLAR JOURNEY TO NEW WORLDS

MARIE-EVE NAUD, INSTITUTE  
FOR RESEARCH ON EXOPLANETS –  
UNIVERSITÉ DE MONTRÉAL

Take a seat in the cockpit for an interstellar adventure! A daydream that lets you explore exoplanets and their landscapes as imagined by scientists and artists.

FRIDAY: 11 AM  
DURATION: 40 MINUTES – IN FRENCH

15 **ON THE BACK OF A GULL**  
MANON SORAIS, PART OF  
THE VILLE-MARIE MIDIS, PRESENTED  
BY THE CŒUR DES SCIENCES – UQAM  
Did you know that Ring-Billed Gulls nest in colonies near Montreal? Meet a biologist who follows them close up. High-wire science!

FRIDAY: NOON  
LENGTH: 40 MINUTES – IN FRENCH

### 15 DREAMS, PREMONITIONS AND NIGHTMARES: TRUE OR FALSE?

ÈVE BEAUDIN, JOURNALIST,  
AGENCE SCIENCE-PRESSE  
Become an assistant to the Tall-Tale Detector. Watch it separate the facts about dreams from fiction.

FRIDAY: 1:15 PM; SUNDAY: 1:15 PM  
LENGTH: 45 MINUTES – IN FRENCH

### 15 PENGUIN ISLAND

ÉMILIE LEFOL AND  
THIBAUT HESTIN

Do you dream of travelling to the ends of the Earth? Journey to an island off the coast of Antarctica, where the king penguin rules. An unforgettable adventure!

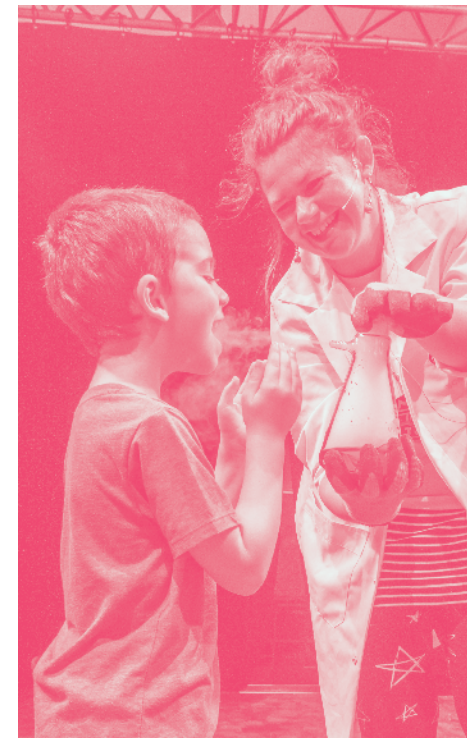
SATURDAY: 11 AM  
LENGTH: 45 MINUTES – IN FRENCH

### 15 SPYING ON CHIPMUNKS

CHARLINE COUCHOUX,  
PART OF THE VILLE-MARIE MIDIS,  
PRESENTED BY CŒUR DES  
SCIENCES – UQAM

Does a chipmunk's personality affect the way it communicates in the presence of danger? To find out, a scientist uses spy techniques worthy of the best movies. Here's your chance to meet her.

SATURDAY: NOON  
LENGTH: 40 MINUTES – IN FRENCH



### 15 MASTERS OF THE RUBIK'S CUBE

MONTREAL CUBERS

Learn how math and algorithms let you solve this famous puzzle in seconds. Meet three experts whose skill is truly puzzling.

SATURDAY: 1:15 PM; SUNDAY 11:15 AM  
LENGTH: 30 MINUTES – IN FRENCH

### 15 TRACKING THE DREAM

ANTONIO ZADRA, PROFESSOR,  
UNIVERSITÉ DE MONTRÉAL

How do you think a dream is constructed? Does everyone dream? Enter the fascinating world of dreams to discover their nature and function.

SATURDAY: 2:15 PM  
LENGTH: 45 MINUTES – IN FRENCH



**15 MUSICAL DREAMING**  
**ERIC SPEED**

Do musical notes awaken your memories? This composer will show you how music is the echo of our dreams and emotions.

**SATURDAY: 3:30 PM**  
**LENGTH: 30 MINUTES - IN FRENCH**

**15 ANIMAL CONSERVATION: NOT SUCH A CRAZY DREAM**

**PARC SAFARI**  
Are you concerned about wild animals disappearing? Accompanied by animal ambassadors, zoologists will share their tips, tricks and potential solutions. You can make a difference!

**SATURDAY: 4:30 PM**  
**LENGTH: 35 MINUTES - IN FRENCH**

**15 SCIENCE HITS THE ROAD**  
**ATTRACTION CHIMIQUE**

Do you believe that a paper swing could support your weight? Put your knowledge of the chemistry of materials to the test in this fun, interactive show.

**SATURDAY: 5:30 PM**  
**LENGTH: 45 MINUTES - IN FRENCH**

**15 A CANADIAN TELESCOPE IN HAWAII?**

**MARY BETH LAYCHAK, CANADA FRANCE HAWAII TELESCOPE (CFHT)**  
Discover a huge, world-class telescope, installed on the crest of a dormant volcano. Learn more about this telescope, recent discoveries made with it, and what astronomers do.

**SATURDAY: 6:30 PM**  
**LENGTH: 45 MINUTES - IN ENGLISH**

**15 MATH ROCKS!**  
**NADIA LAFRENIÈRE, PART OF THE MIDIS VILLE-MARIE, PRESENTED BY THE CŒUR DES SCIENCES - UQAM**

Hearts, Clubs, Diamonds, Spades! Did you know that some methods of shuffling cards are more effective than others? Come meet a mathematician who has made a study of it.

**SUNDAY: NOON**  
**LENGTH: 40 MINUTES - IN FRENCH**



**15 SCIENCE ON THE SET**  
**JOËL LEBLANC, ZAPIENS**  
**SCIENCE COMMUNICATION**

From corrosive extraterrestrial blood to ghost mucus, discover the science behind movie special effects. Use chemistry to recreate scenes from famous films.

**SUNDAY: 2:30 PM**  
**LENGTH: 40 MINUTES - IN FRENCH**

**15 DREAMING ABOUT MAGNETIC LEVITATION**

**ALEXIS REYBAUT**  
Watch a bunch of experiments and discover how simple ceramics cooled with nitrogen can make magnets float in the air. Simply magnetic!

**SUNDAY: 3:30 PM**  
**LENGTH: 30 MINUTES - IN FRENCH**

**15 PREMATURE BABIES: TINY BEINGS, BIG CHALLENGES**

**ANNIE JANVIER, NEONATOLOGIST, RESEARCHER AND AUTHOR (UNIVERSITÉ DE MONTRÉAL, HÔPITAL SAINTE-JUSTINE) AND GINETTE MANTHA, FOUNDER AND GENERAL MANAGER, PRÉMA-QUEBEC**

Did you know that about 6,000 babies are born prematurely in Quebec every year? Professionals and families team up to give them the best care. Discover their myths, realities and experiences.

**SUNDAY: 4:45 PM**  
**LENGTH: 45 MINUTES - IN FRENCH**



# MAIN STAGE

■ 37

## 37 THE MAGIC OF CHEMISTRY YANNICK BERGERON

Enter the world of chemistry through breathtaking, colourful, explosive, foaming demonstrations! An unforgettable experience for all your senses.

**FRIDAY: 9:30 AM; SATURDAY: 2 PM  
AND SUNDAY: 4:45 PM  
LENGTH: 45 MINUTES - IN FRENCH**



## 37 INSECTS ON STAGE BILL BESTIOLE

An interactive, musical show where you'll catch the entomology «bug». Discover the TRUE nature and ecological importance of insects and other little critters.

**FRIDAY: 10:45 PM; SUNDAY: 11:30 PM  
LENGTH: 55 MINUTES - IN FRENCH**

## Fonds de recherche du Québec

### 37 AWARDS PRESENTATION

You're invited to the awards ceremony for school groups that participated in the Science in the Classroom Web rally. Congratulations to the winners!

**FRIDAY: NOON  
LENGTH: 20 MINUTES - IN FRENCH**

### 37 RAPTORS: MASTERS OF THE SKY

**FAUCON-ÉDUC**  
A presentation that reveals the mysteries of birds of prey. A rare opportunity to see these birds flying up close. Watch your head!

**FRIDAY: 12:45 PM; SUNDAY: 2:15 PM  
- IN ENGLISH  
FRIDAY: 1:45 PM; SUNDAY: 3:15 PM  
- IN FRENCH  
LENGTH: 30 MINUTES**

### 37 BOOBOO SURVIVAL GUIDE OLIVIER BERNARD, LE PHARMACHIEN

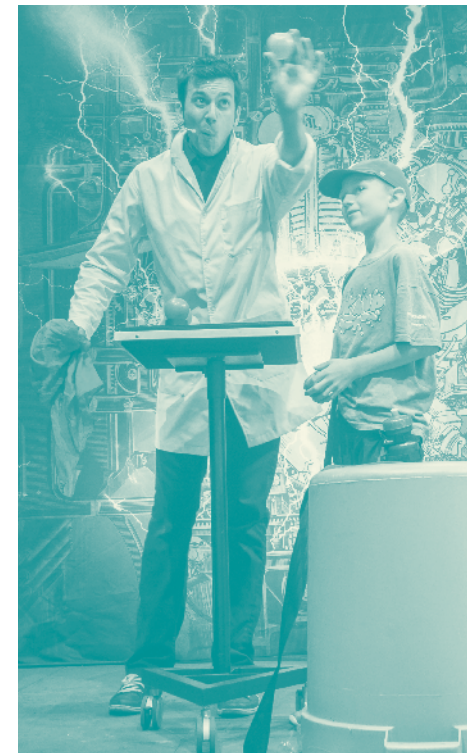
Laugh while you learn from Le Pharmacien. He'll debunk a few myths about medications, natural products and grandma's remedies. Giggles guaranteed!

**SATURDAY: 11:15 AM AND 4:30 PM  
LENGTH: 40 MINUTES - IN FRENCH**

### 37 SCIENCE OR MAGIC 3: THE INCREDIBLE EXPERIMENT

**DANIEL COUTU**  
Do you like to know and understand everything? Enter a world where magic tricks meet amazing scientific experiments. You won't believe your eyes!

**SATURDAY: 12:30 PM  
LENGTH: 55 MINUTES - IN FRENCH**



### 37 DRONES AMONG US! ANDRÉ ROUSSEAU, PATRICK CÔTÉ AND MARTIN BERGER

Discover the potential of drone technology. Three professional pilots will show you their racers, with breathtaking videos. Sit tight! There are drones overhead!

**SATURDAY: 3:15 PM  
LENGTH: 45 MINUTES - IN FRENCH**

### 37 SOLAR ADVENTURES RAPHAËL DOMJAN, ECO-ADVENTURER, FESTIVAL SOLAIRE NORDIQUE DU QUÉBEC

Come meet this eco-adventurer who follows his dreams. Discover the solar adventures that led him to the four corners of the planet. For his next exploit, he'll talk to the stars on his solar aircraft, the SolarStratos.

**SUNDAY: 1 PM  
LENGTH: 40 MINUTES - IN FRENCH**



# WORK SHOPS

CONCOCTING SCIENCE

## TENTS

■ 14 TO 18

**14 POPSICLE BRIDGE CHALLENGE**  
ÉCOLE DE TECHNOLOGIE SUPÉRIEURE (ÉTS)

Your challenge: build a bridge with Popsicle sticks and hot glue that can withstand the staggering load of a hydraulic press. Will your bridge pass the test?

CONTINUOUS FOR ALL

**16 BIRDS OF PREY**  
FAUCON-ÉDUC

Explore the world of birds of prey and watch our trained ambassador birds in action. They will reveal their fascinating adaptations.

FRIDAY: 9:30 AND 10:30 AM  
LENGTH: 45 MINUTES  
RECOMMENDED FOR AGES 6 AND UP

**18 FILM SHOOT  
CYBERCAP**

Become an Actor! Experiment with the green screen technique. Find out more about the history of the movies.

**FRIDAY: 9:30 AM TO 1 PM  
AND 1:45 TO 3:30 PM  
CONTINUOUS**

**RECOMMENDED FOR AGES 11 AND UP**

**17 PALEONTOLOGISTS,  
GRAB YOUR TOOLS!**

**PETRASAPIENS**

In the shoes of a paleontologist, discover the process of fossilization. Then remove real fossils from the rock and take them home! Admire the amazing collection of specimens from the Phanerozoic eon.

**FRIDAY: 9:45 AND 10:45 AM  
LENGTH: 45 MINUTES**

**RECOMMENDED FOR AGES 5 AND UP**

**16 SCIENCE ILLUSTRATED  
MICROFICHES**

Come to a meeting of art and science. Learn about science microfiches. Then put your knowledge into words and images, with the help of a gifted artist.

**FRIDAY: 11:45 AM, 12:45 PM, 1:45 PM  
AND 2:45 PM**

**SUNDAY: 11 AM AND NOON  
LENGTH: 45 MINUTES**

**RECOMMENDED FOR AGES 5 AND UP**

**17 CHEM IN A FLASH  
MAD SCIENCE**

Become a lab technician for a day. Put on safety goggles and learn how to change the speed of a chemical or physical reaction!

**FRIDAY: NOON AND 1 PM  
LENGTH: 45 MINUTES**

**RECOMMENDED FOR AGES 7 AND UP**

**17 DREAM UP A  
SUSTAINABLE CITY**

**JEUX WASA**

Build the city of your dreams with the "Quartier Durable" game. Use wind turbines, rainwater collectors, composters, green roofs, bicycle paths... Now it's your turn!

**SATURDAY: 10:30 AM TO 1:15 PM  
CONTINUOUS**

**RECOMMENDED FOR AGES 8 AND UP**

**16 CRAZY BUBBLES  
LES SCIENTIFINES**

Would you like to make giant soap bubbles? Blow a bubble inside a bubble? Create bubbles that will make you burst with pride.

**SATURDAY: 11:30 AM, 12:15 PM AND 1:30 PM  
LENGTH: 60 MINUTES**

**RECOMMENDED FOR AGES 6 AND UP**

**18 BRAIN POWER  
NEUROTECHX**

Control a robot with your thoughts. Enter the fascinating world of Brain-Machine Interfaces (BMI) and the electrical activity of the brain. Do you think anyone can read your thoughts? Come find out.

**SATURDAY: 11 AM - 3 PM  
CONTINUOUS**

**RECOMMENDED FOR AGES 8 AND UP**

**17 ROLLIICKING REPTILES  
REPTI-ZONE**

Would you dare to have a snake around your neck? A rare opportunity for contact with these fascinating animals. Goose bumps guaranteed!

**SATURDAY: 1:45 TO 4:45 PM  
CONTINUOUS**

**FOR ALL**

**16 SLIPPERY SLIME  
RÉSEAU TECHNOSCIENCE**

Check out the chemistry of polymers. Make slime balls that are both soft and hard, liquid and solid, limp and bouncy.

**SATURDAY: 3:15 PM, 4:15 PM 5:15 PM  
AND 6:15 PM**

**SUNDAY: 3:45 PM AND 4:45 PM  
LENGTH: 45 MINUTES**

**RECOMMENDED FOR AGES 5 AND UP**

**18 CREATING SOUND  
IN REAL TIME**

**AUDIOTOPIE**

Have fun creating a "non-standard" soundscape with digital tools. Transform the sounds of everyday life into music in real time. Sound will work its magic.

**SATURDAY: 3:30 PM TO 7:30 PM  
CONTINUOUS**

**RECOMMENDED FOR AGES 5 AND UP**

**17 THE WEIGHT OF AIR  
LES NEURONES ATOMIQUES**

Does air have weight? Come find out. Perform spectacular, instructive experiments with the vacuum bell jar.

**SATURDAY: 5:30 PM AND 6:30 PM  
LENGTH: 45 MINUTES**

**RECOMMENDED FOR AGES 8 AND UP**

**17 ENERGY IN ALL  
ITS FORMS**

**PROFAQUA**

What do the Sun, wind, water, your muscles and a lemon have in common? Each of them produces the electricity required to operate a calculator.

**SUNDAY: 10:45 AM, 11:45 AM AND 12:45 PM  
LENGTH: 40 MINUTES**

**RECOMMENDED FOR AGES 7 AND UP**

**18 SCIENCE AT PLAY  
RANDOLPH ANIMATION**

Whether you like giant board games or science and logic games, there's something for everyone.

**SUNDAY: 10:45 AM TO 1:45 PM  
CONTINUOUS**

**RECOMMENDED FOR AGES 7 AND UP**

**16 RUBIK'S CUBE  
IS TOO EASY**

**MONTREAL CUBERS**

Impress your friends by solving the most popular puzzle of all time. Learn the basics of the Rubik's cube and leave with the solution.

**SUNDAY: 1:30 AND 2:30 PM  
LENGTH: 45 MINUTES**

**RECOMMENDED FOR AGES 10 AND UP**

**17 MOVIE MAGIC  
MILSUIITE FX CREATIONS**

Discover tips and tricks for creating special effects and makeup worthy of the best films.

**SUNDAY: 2 PM, 3 PM, 4 PM AND 5 PM  
LENGTH: 45 MINUTES**

**RECOMMENDED FOR AGES 6 AND UP**

**18 ECODESIGN, JEWELLERY  
AND ACCESSORIES**

**ENVIRONNEMENT JEUNESSE**

Convert old film slides and bicycle inner tubes into jewellery and accessories. Learn eco-design techniques inspired by the DIY movement.

**SUNDAY: 2:30 PM TO 6 PM  
CONTINUOUS**

**RECOMMENDED FOR AGES 10 AND UP**

# The great Télé-Québec experiment!



## Électrons libres

Saturdays and Sundays  
at 3:30 p.m. this summer!

## Génial!

On now, Monday to  
Thursday at 7 p.m.!



Télé-Québec



**EURÊKA!  
IT'S GÉNIAL!**

Don't miss the **GÉNIAL!**  
live show

**Saturday, June 10,  
at 8 p.m.**  
At the Main Scene

telequebec.tv

## FESTIVAL SOLAIRE NORDIQUE

June 15 - 20, 2017

Old Port of Montreal

[www.festivalsolairenordique.ca](http://www.festivalsolairenordique.ca)

# MONTREAL

free entry

Public lecture by Raphaël Domjan

June 11 at 13 PM at the Eureka Festival

Solar Exhibition at the Old Port of Montreal

June 15 -18 from 10 AM to 7 PM

Public presentation of the SolarStratos aircraft at the Old Port of Montreal

June 17 - 18 : Saturday 10 am to 10 pm, Sunday 10 am to 5 pm

Flights from SolarStratos over the Saint Lawrence River

June 19-20 depending on weather conditions



WITH THE PRESENCE OF  
**SOLAR STRATOS**  
«approaching space by using  
solar energy»

**SOLARSTRATOS**

TO THE EDGE OF SPACE

montréalalive 75



Ministère de  
l'Énergie et des  
Ressources  
Économiques  
Québec

Économie, Science  
et Innovation  
Québec

**iLAND**  
LE SOLAIRE EXTREME

Cooperation between the EUREKA!  
FESTIVAL and VILLE DE MONTRÉAL  
shows that worth is not measured  
in years, and we are very proud.

alive  375

# OUR GARBAGE BINS ARE FULL OF ENERGY

Did you know that the fruit and vegetable peels we  
discard create a renewable natural gas when decomposed?  
This is what is called biomethane.

Come and meet us at Kiosk 1 in the Sustainable  
Development area presented by Gaz Métro.



 GazMétro

# GREAT TIMES TOGETHER!

**ENSEMBLE**   
on fait avancer le Québec

**Québec**   
FIER PARTENAIRE

## FOLIE TECHNIQUE

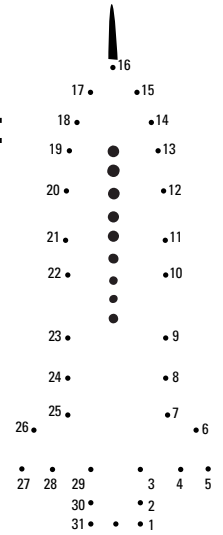
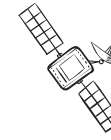
SCIENCE ACTIVITIES  
POLYTECHNIQUE MONTRÉAL

Explore the worlds of science, mathematics, engineering and technology through creative, interactive, accessible activities at your school or at a Folie Technique summer day camp.



[folietechnique.com](http://folietechnique.com)  
514 340-5856 //   folietechnique

## LE MONDE ÉTS À NOTRE PORTÉE



**ÉTS** ÉCOLE DE TECHNOLOGIE SUPÉRIEURE  
Le génie pour l'industrie Université du Québec

## Giving young people a taste for science



The Fonds de recherche du Québec, proud partners of the 2017 Eureka! Festival and sponsor of the Sciences en classe contest.

**Québec**   
Fonds de recherche – Nature et technologies  
Fonds de recherche – Santé  
Fonds de recherche – Société et culture

## Laser Quantum

Laser and Aquatic Design

**VOILES EN VOILES**

## A MEMORABLE ADVENTURE

Adventure Park  
[voilesenvoiles.com](http://voilesenvoiles.com)

# EU RÊ KA!

IN COLLABORATION WITH



L'ÎLE  
DU  
SAVOIR



WITH FINANCIAL SUPPORT FROM

Montréal 



Québec 

SUSTAINABLE DEVELOPMENT ZONE PRESENTED BY



MAIN STAGE PRESENTED BY



SPONSORS

ÉTS



Laser  
Quantum

VOILES  
EN VOILES

## HUNGRY FOR SCIENCE?

Take a well-deserved break at the  
Montreal Science Centre's food court.

For the Festival's 11<sup>th</sup> edition, these restaurants  
are offering a 10% discount on the purchase of a meal.\*



LE TABOULÉ  
Cuisine Libanaise

FRITE ALORS!



\*Single-use offer  
on presentation  
of this program.