

# ساي فيست دبي SciFest Dubai

23 January - 1 February 2020

You don't have to be  
a **scientist**  
to love **science.**

Online Media Partners and Content Partners



Knowledge Partner



In partnership with

**Awecademy**



SciFest

# About the Festival

SciFest is a platform to promote creativity, critical thinking, innovation, and STEAM. In addition to organising an annual Science Festival, SciFest also promotes STEAM Education and public understanding of science through numerous workshops, thinktanks, projects, conferences, community initiatives, podcasts, and radio shows.

The aim is to infuse among students and the general public a sense of awe and wonder about the cosmos and celebrate science through the arts.

The 2020 edition of the festival is held in collaboration with Awecademy and Dubai Future Foundation's Area2071.



## Reach

6 Annual science festivals  
32 Science events  
3 Astronomy art exhibitions  
20+ Stargazing events



## Social Media

500,000+  
Cumulative followers



## Audience

60,000+ Cumulative audience  
90 nationalities  
Ages 6-65



## Partners

20 + venues  
40+ partners

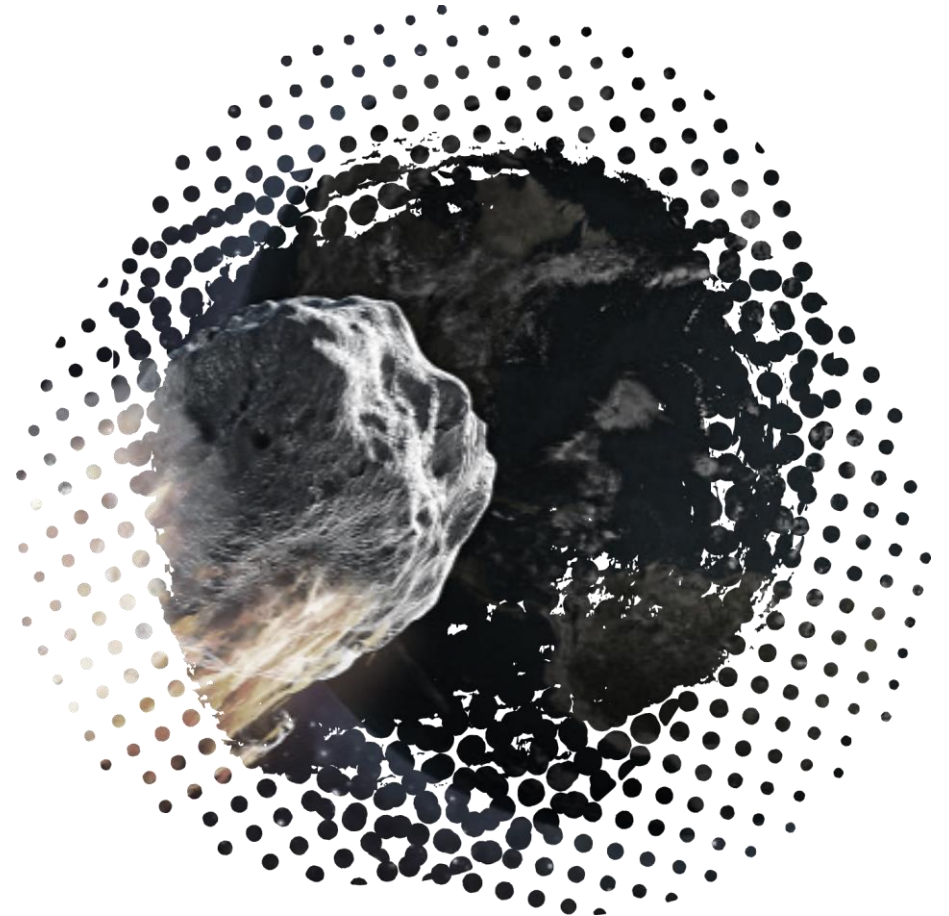


# Highlights: Meteorite Talk

Meet our meteorite expert, Tom Varden (Astronomer, Griffith Observatory, USA) and listen to him talk about shooting stars and falling meteorites.

The talk will also focus on:

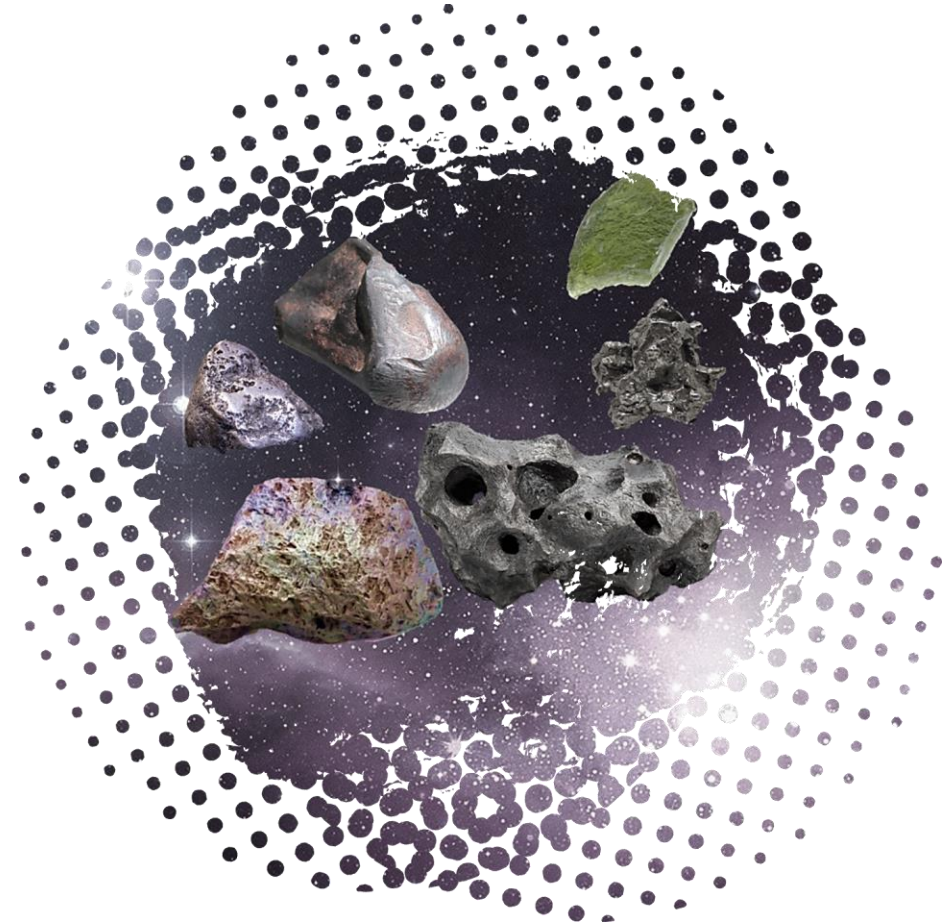
- the difference between asteroids, meteors, meteorites, and meteoroids.
- The different types of meteorites including stony and iron meteorites.
- How meteors are found on earth
- The naming of meteorites
- The composition of meteorites
- A few major meteorite sites on our planet.



# Highlights: Meteorite Museum

Under the guidance of Astronomer Tom Varden, students will get to see (and, in some cases, touch and handle) a range of different meteorites and moldovites, including:

- 8lbs Camp Del Cielo full specimen
- 6lbs matched pair, Castor and Pollux Muonionalusta,
- Seymchan slice, pallasite with green olivine crystals.
- 1g meteorite from the Asteroid Vesta
- .75g Shergottite originated from Mars
- 10.8g Canyon Diablo, fragment from the Barringer Meteor Crater event.
- 10g Chelyabinsk, the most filmed meteorite fall yet
- Tatouine, fell just 150 miles from the Star Wars location
- Various Sikhote-Alin shrapnel fragments approx. 5g each
- Various Campo Del Cielo fragments
- Gibeon, sliced and etched to reveal Widmanstätten patterns
- Moldavite, a green translucent glass made when a meteorite impacts a desert location



# Highlights: Astronomy Storytelling

These sessions include a combination of improvisation, theatrics, and narrative embellishments to tell science-themed stories to a young audience.

## Live Storytelling:

**The Story of the Universe:** Our universe is billions of years old. What happened and where are we now – and how do we know! Come on this journey to the beginning of the universe.

**When the Sky Fell - The Story of a Meteorite:** About 5,000 years ago, so many shooting stars crashed on earth it seemed the sky was falling. Join one of those shooting stars on its fiery entry through our planet's atmosphere and its ultimate survival.

## Story Time with Books:

**Life on Mars** – A young astronaut is determined to find life on Mars. Blast off with him in his rocket and join his adventure. Will he find a friendly Martian? Let's go!

**Outer Space Bedtime Race** – Children on Earth go to sleep – and so do young ones on other planets. Come say good night to your fellow solar system friends!

**E.T. the Extra Terrestrial** – Elliott has made a new friend. He's not from Earth. His new friend needs to go back to his home. Join Elliott on his adventure with his new friend, E.T.





SciFest 2020

# Highlights: Café Scientifique Dubai

Established in 2013, Cafe Scientifique is a meetup group to talk about astronomy, science, technology, and the future, in a friendly and informal setting. The focus is less on lectures and more on having meaningful conversations and meeting interesting new people.

Café Sci has 12,000+ members and attendees and has held 32 events in the last 5 years.

More details: [www.cafescidubai.com](http://www.cafescidubai.com)

An overview of the workshops and sessions offered can be seen in the appendix below.




# Highlights: Solar Viewing

These solar viewing sessions allow for safe telescopic observation of the sun using special solar filters to view sunspots, solar flares, and the corona of the sun.

(Never look at the sun with the naked eye).



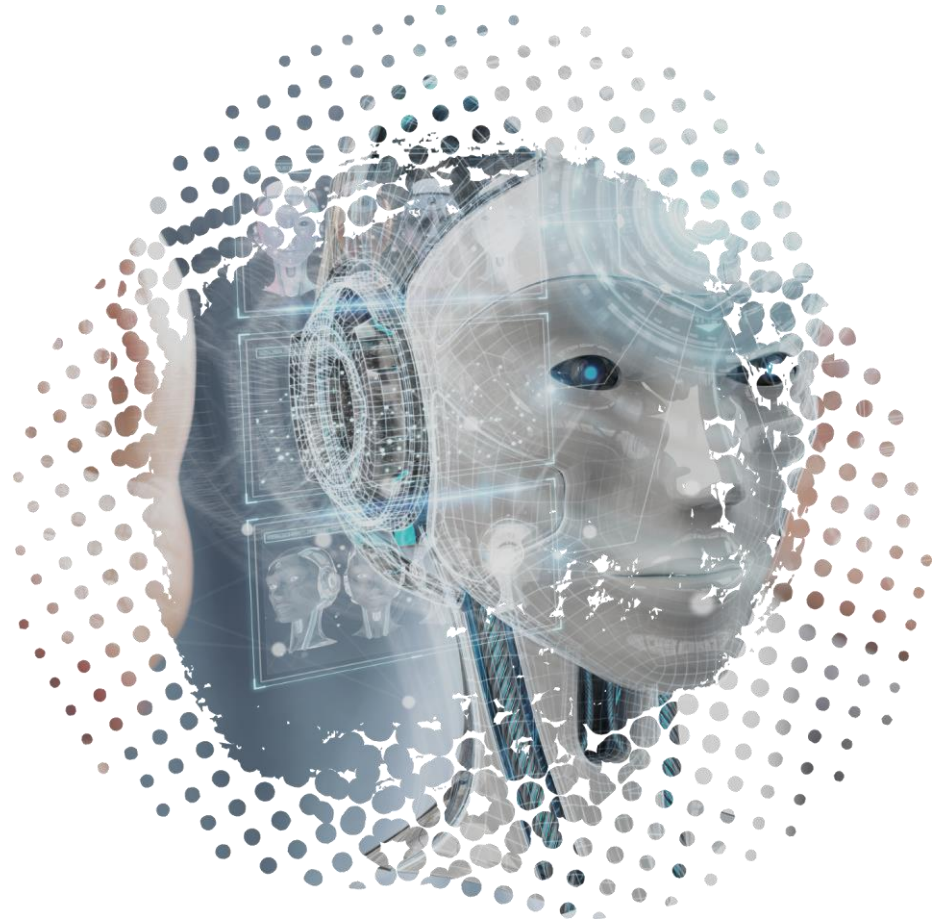
# Highlights: Workshops



SciFest, in partnership with [Awecademy](#), presents an award-winning series of future-focused, interactive educational sessions and workshops for learners.

These workshops help leareners develop new competencies, future fluencies, advanced skills and powerful values for them to survive and thrive in a world of artificial intelligence, increased automation, and accelerating change.

An overview of the workshops and sessions offered can be seen in the appendix below.





# Highlights: Science Shows



These on-stage performances are sure to entertain, educate, and enlighten audiences of all ages but particularly the young ones.

## Oh, the Solar System

Planets that pass wind?

Dogs in space?

Raining diamonds?

Don't believe us?

Meet Mrs. Bumblealong, our favorite science teacher, as she navigates through the solar system with a little help from you!

Suitable for ages 6 – 9 years old.

Details in the appendix below.



# Highlights: Cosmic Dome



The Cosmic Dome is an indoor mobile planetarium that acts as a simulated spaceship, packed with highly informative tour shows that provide students with new experiences while exploring the wonders of the universe.





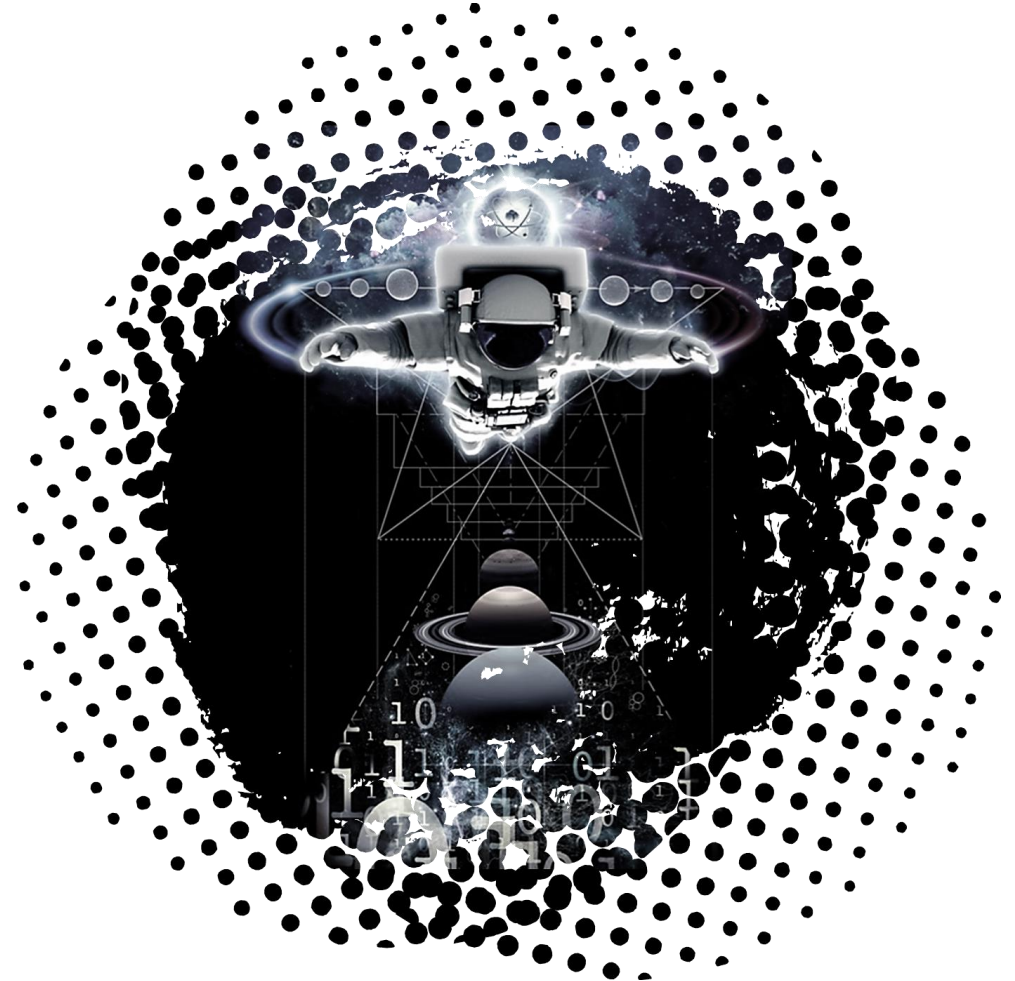
# Keynote Speaker: Tom Varden



**Tom Varden**



Based in the U.S., Tom Varden is an artist, astronomer, scientist, photographer and keynote speaker. He is the founder of Black Rock Observatory, the finest mobile observatory dedicated to public outreach in the world. He operates the hardest-working telescope in the business for Griffith Observatory in Los Angeles, one of the best public observatories on planet Earth.



SciFest 2020

# Highlights: Star Party

The Star party is an opportunity to hang out with astronomers, look through telescopes, and talk about the stars.

## Night Sky Highlights:

Meteor Showers, Planetary Oppositions, Sunspots, Messier Objects, Eclipses, Constellations, Top 10 brightest stars, Planetary Transits, and Comets.

## Main telescope:

Celestron CPC 1100 StarBright XLT GPS Schmidt-Cassegrain 2800mm Telescope with fully computerized dual fork arm altazimuth mount. (NexStar computer control technology; GPS alignment; 280 mm aperture, 2800 mm fl)

## Secondary telescope:

Celestron 21061 AstroMaster 70AZ Refractor Telescope (Optical Lens Diameter 2.6" 70mm)

## Primary Binoculars:

Yukon Advanced Optics Newtonian Reflector Binoculars (50mm objective lens, 30x magnification, 32m@1,000m field of view).

## Starwalk Stargazing smartphone app:

Interactive astro guide to the night sky, for exploration of over 200, 000 celestial bodies with information about stars, constellations, and satellites.







SciFest Dubai

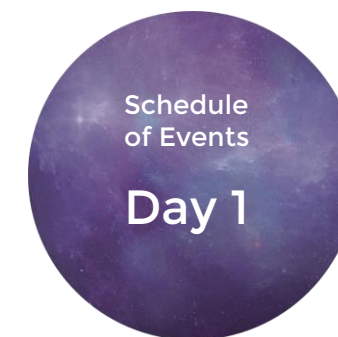
## Image Gallery

Click [here](#) to view images from previous editions of the festival



**Date:** Thursday 23<sup>rd</sup> January  
**Time:** 10:00am – 12:00pm  
**Venue:** Auditorium AREA 2071, Dubai Future Foundation  
**Cost:** AED 30 per student  
**Age:** 10-18 years old

Click [here](#) to register



	Opening Ceremony Emerging Technologies: The Future of Work, Education & Humanity
Overview	<b>Emerging Technologies: The Future of Work, Education &amp; Humanity</b> We are living through a remarkable time in human history. Technologies such as Artificial Intelligence, Virtual Reality, Robotics and 3D Printing are advancing at an exponential rate. These emerging powerful tools are creating a future where we have access to an abundance of resources, live on Mars, or even upload our consciousness into machines. But are we prepared to live in such a world? This series of talks will provide our youth an overview of the future of work, education and humanity as a whole.
Keynote 1	<b>Speaker:</b> Tom Varden <b>Title:</b> <i>The Future of Space Exploration</i> We are living in an exciting age of space exploration. This talk focuses on interstellar travel, the search for life on Europa, the colonization of Mars, and the privatization of the space industry.
Keynote 2	<b>Speaker:</b> Rohan Roberts (Director, SciFest Dubai) <b>Title:</b> <i>The Technological Singularity</i> <b>Outline:</b> The technological singularity is the hypothesis that the invention of artificial superintelligence will abruptly trigger runaway technological growth, resulting in unfathomable changes to human civilization.
Keynote 3	<b>Speaker:</b> Raya Bidshahri (Founder & CEO, Awecademy) <b>Title:</b> <i>A.i., Automation, and the Future of Work</i> <b>Outline:</b> Automation and artificial intelligence (AI) are transforming businesses and will contribute to economic growth via contributions to productivity. They will also help address “moonshot” societal challenges in areas from health to climate change.



**Date:** Monday 27<sup>th</sup> January  
**Venue:** Various schools  
**Cost:** AED 30 per student per session

Click [here](#) for more information



Time	Phase 1	Phase 2	Phase 3	Phase 4
8:30am-9:15am	<b>Solar Viewing Session 1</b> <b>Code:</b> M21 <b>Ages:</b> 7+  Click <a href="#">here</a> to book	<b>Science Stage Show 1</b> <b>Code:</b> P22 <b>Ages:</b> 7-14  Click <a href="#">here</a> to book	<b>Science and Tech Workshop 1</b> <b>Code:</b> AA37 <b>Ages:</b> 8-12 Choose session from <a href="#">appendix</a> Click <a href="#">here</a> to book	<b>Cosmic Dome: Mobile Planetarium Show 1</b> <b>Ages:</b> Various  Click <a href="#">here</a> to book
11:00pm 11:45am	<b>Solar Viewing Session 2</b> <b>Code:</b> M22 <b>Ages:</b> 7+  Click <a href="#">here</a> to book	<b>Science Stage Show 2</b> <b>Code:</b> P23 <b>Ages:</b> 7-14  Click <a href="#">here</a> to book	<b>Science and Tech Workshop 2</b> <b>Code:</b> AA38 <b>Ages:</b> 8-12 Choose session from <a href="#">appendix</a> Click <a href="#">here</a> to book	<b>Cosmic Dome: Mobile Planetarium Show 2</b> <b>Ages:</b> Various  Click <a href="#">here</a> to book
12:45 – 1:30pm	<b>Solar Viewing Session 3</b> <b>Code:</b> M23 <b>Ages:</b> 7+  Click <a href="#">here</a> to book	<b>Science Stage Show 3</b> <b>Code:</b> P24 <b>Ages:</b> 7-14  Click <a href="#">here</a> to book	<b>Science and Tech Workshop 3</b> <b>Code:</b> AA39 <b>Ages:</b> 8-12 Choose session from <a href="#">appendix</a> Click <a href="#">here</a> to book	<b>Cosmic Dome: Mobile Planetarium Show 3</b> <b>Ages:</b> Various  Click <a href="#">here</a> to book
2:30pm-3:15pm	<b>Café Scientifique 1</b> Choose session from appendix <b>Code:</b> CSD52 <b>Ages:</b> 13-17  Click <a href="#">here</a> to book			

**Date:** Tuesday 28<sup>th</sup> January  
**Venue:** Various schools  
**Cost:** AED 30 per student per session

Click [here](#) for more information



Time	Phase 1	Phase 2	Phase 3	Phase 4
8:30am-9:15am	<b>Story telling Session 1</b> <b>Code:</b> M21 <b>Ages:</b> 5-12 Click <a href="#">here</a> to book	<b>Meteorite Talk   Meteorite Museum session 1</b> <b>Code:</b> P22 <b>Ages:</b> 8-17 Click <a href="#">here</a> to book	<b>Science and Tech Workshop 4</b> <b>Code:</b> AA40 <b>Ages:</b> 13-17 Choose session from <a href="#">appendix</a> Click <a href="#">here</a> to book	<b>Cosmic Dome: Mobile Planetarium Show 4</b> <b>Ages:</b> Various Click <a href="#">here</a> to book
11:00pm 11:45am	<b>Story telling Session 2</b> <b>Code:</b> M22 <b>Ages:</b> 5-12 Click <a href="#">here</a> to book	<b>Meteorite Talk   Meteorite Museum session 2</b> <b>Code:</b> P23 <b>Ages:</b> 8-17 Click <a href="#">here</a> to book	<b>Science and Tech Workshop 5</b> <b>Code:</b> AA41 <b>Ages:</b> 13-17 Choose session from <a href="#">appendix</a> Click <a href="#">here</a> to book	<b>Cosmic Dome: Mobile Planetarium Show 5</b> <b>Ages:</b> Various Click <a href="#">here</a> to book
12:45 – 1:30pm	<b>Story telling Session 3</b> <b>Code:</b> M23 <b>Ages:</b> 5-12 Click <a href="#">here</a> to book	<b>Meteorite Talk   Meteorite Museum session 3</b> <b>Code:</b> P24 <b>Ages:</b> 8-17 Click <a href="#">here</a> to book	<b>Science and Tech Workshop 6</b> <b>Code:</b> AA42 <b>Ages:</b> 13-17 Choose session from <a href="#">appendix</a> Click <a href="#">here</a> to book	<b>Cosmic Dome: Mobile Planetarium Show 6</b> <b>Ages:</b> Various Click <a href="#">here</a> to book
2:30pm-3:15pm	<b>Café Scientifique 2</b> Choose session from <a href="#">appendix</a> <b>Code:</b> CSD53 <b>Ages:</b> 13-17 Click <a href="#">here</a> to book			

**Date:** Wednesday 29<sup>th</sup> January  
**Venue:** Various schools  
**Cost:** AED 30 per student per session

Click [here](#) for more information



Time	Phase 1	Phase 2	Phase 3	Phase 4
8:30am-9:15am	<b>Solar Viewing Session 4</b> <b>Code:</b> M24 <b>Ages:</b> 7+  Click <a href="#">here</a> to book	<b>Science Stage Show 4</b> <b>Code:</b> P25 <b>Ages:</b> 7-14  Click <a href="#">here</a> to book	<b>Science and Tech Workshop 4</b> <b>Code:</b> AA43 <b>Ages:</b> 8-12 Choose session from <a href="#">appendix</a> Click <a href="#">here</a> to book	<b>Cosmic Dome: Mobile Planetarium Show 7</b> <b>Ages:</b> Various  Click <a href="#">here</a> to book
11:00pm 11:45am	<b>Solar Viewing Session 5</b> <b>Code:</b> M25 <b>Ages:</b> 7+  Click <a href="#">here</a> to book	<b>Science Stage Show 5</b> <b>Code:</b> P26 <b>Ages:</b> 7-14  Click <a href="#">here</a> to book	<b>Science and Tech Workshop 5</b> <b>Code:</b> AA44 <b>Ages:</b> 8-12 Choose session from <a href="#">appendix</a> Click <a href="#">here</a> to book	<b>Cosmic Dome: Mobile Planetarium Show 8</b> <b>Ages:</b> Various  Click <a href="#">here</a> to book
12:45 – 1:30pm	<b>Solar Viewing Session 6</b> <b>Code:</b> M26 <b>Ages:</b> 7+  Click <a href="#">here</a> to book	<b>Science Stage Show 6</b> <b>Code:</b> P27 <b>Ages:</b> 7-14  Click <a href="#">here</a> to book	<b>Science and Tech Workshop 6</b> <b>Code:</b> AA45 <b>Ages:</b> 8-12 Choose session from <a href="#">appendix</a> Click <a href="#">here</a> to book	<b>Cosmic Dome: Mobile Planetarium Show 9</b> <b>Ages:</b> Various  Click <a href="#">here</a> to book
2:30pm-3:15pm	<b>Café Scientifique 3</b> Choose session from <a href="#">appendix</a> <b>Code:</b> CSD54 <b>Ages:</b> 13-17  Click <a href="#">here</a> to book			



**Date:** Thursday 30<sup>th</sup> January  
**Venue:** Various schools  
**Cost:** AED 30 per student per session

Click [here](#) for more information



Time	Phase 1	Phase 2	Phase 3	Phase 4
8:30am-9:15am	Meteorite Talk   Meteorite Museum session 4 Code: P25 Ages: 8-17 Click <a href="#">here</a> to book	Science Stage Show 7 Code: P28 Ages: 7-14  Click <a href="#">here</a> to book	Science and Tech Workshop 7 Code: AA46 Ages: 8-12 Choose session from <a href="#">appendix</a> Click <a href="#">here</a> to book	Cosmic Dome: Mobile Planetarium Show 10 Ages: Various  Click <a href="#">here</a> to book
11:00pm 11:45am	Meteorite Talk   Meteorite Museum session 5 Code: P26 Ages: 8-17 Click <a href="#">here</a> to book	Science Stage Show 8 Code: P29 Ages: 7-14  Click <a href="#">here</a> to book	Science and Tech Workshop 8 Code: AA47 Ages: 8-12 Choose session from <a href="#">appendix</a> Click <a href="#">here</a> to book	Cosmic Dome: Mobile Planetarium Show 11 Ages: Various  Click <a href="#">here</a> to book
12:45 – 1:30pm	Meteorite Talk   Meteorite Museum session 6 Code: P27 Ages: 8-17 Click <a href="#">here</a> to book	Science Stage Show 9 Code: P30 Ages: 7-14  Click <a href="#">here</a> to book	Science and Tech Workshop 9 Code: AA48 Ages: 8-12 Choose session from <a href="#">appendix</a> Click <a href="#">here</a> to book	Cosmic Dome: Mobile Planetarium Show 12 Ages: Various  Click <a href="#">here</a> to book
6:30pm-9:30pm	Star Party Ages: 12 - adults  Click <a href="#">here</a> to book			

# FAQs

## Where will the festival be hosted this year?

The opening ceremony on 26 Jan 2020 and closing event on 1 Feb 2020 will be hosted at Dubai Future Foundation's AREA2071, in Emirates Towers. All other events (solar viewing, stage shows, meteorites talk, and workshops) will be hosted in schools in Dubai that register with us. You are welcome to host events for your students at your school.

## Can we host events at our school?

Yes, when you confirm a booking for an event, the SciFest Dubai team will come to your school to provide the programming.

## Is there a participation fee for the events? If so, how much?

The participation fee is AED30 per student per event.

## Is there a minimum or maximum number of students required for the events?

For hosting events at your school for your student, the following outlines the number of students required (minimum-maximum):

- Solar-viewing: 40-50 students
- Workshop: 20-30 students
- Storytelling & Mobile Planetarium: 20-30 students
- Science Stage Show: 50-200 students (depending on school auditorium capacity)
- Meteorite Talk and Museum: 50-200 students (depending on school auditorium capacity)

## How can I make a registration for an event?

You can make a booking via this registration link. Please enter the events that you are registering for and the confirmed number of students. A member of the SciFest Dubai team will then contact you to confirm the details of your registration.

## When is the registration deadline?

Registrations will be confirmed on a first-come-first serve basis. The deadline to register your school is January 10th 2019. Please note that in all previous years, registrations for the festival have filled up weeks in advance.

## Will students receive certificates for their attendance?

Yes, students will receive digital certificates for their attendance. In order to receive these, the school educators are required to email the full names of all the students within ten days of the festival.



SciFest is Supported by world-renowned

# Scientists and Futurists



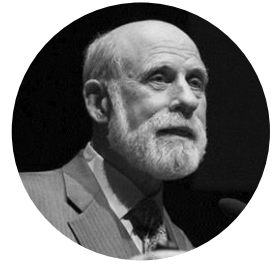
**H.E. Sheikh Dr. Majid Al Qassimi**  
Founder, The MENA Scientist



**Steven Pinker**  
Cognitive Scientist



**David Deutsch**  
Oxford Quantum Physicist



**Vint Cerf**  
Father of the Internet



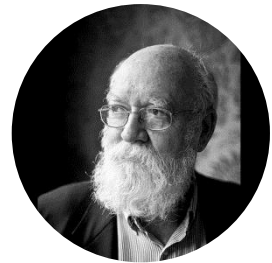
**George Musser**  
Editor, Scientific American



**Aubrey de Grey**  
Biomedical Gerontologist



**John Smart**  
Global Futurist



**Dan Dennet**  
Science Philosopher





## SciFest Partners & Collaborators

# Appendix



Details of Awecademy and Café Scientifique Workshops

## Secondary School Workshops



### Job & Skills of The Future

**Target Age:** 13-16

**Max Number:** 40

[Register here](#)

#### Overview:

There are many trends, such as technological automation and the rise of the contingent workforce, that are revolutionizing the future of the work. What is the impact that technology will have on our careers? What jobs will be lost and which ones will be created? What are some of the most exciting emerging industries? This workshop will explore these questions - and many more - with the goal of preparing learners for the workforce of the future.



### Intro to Exponential Technologies

**Target Age:** 13-16

**Max Number:** 40

[Register here](#)

#### Overview:

Exponential technologies such as artificial intelligence, advanced robotics, virtual reality, biotechnology, and digital medicine are a major source innovation, invention, and discovery. Breakthroughs in this area have the potential to positively affect billions of lives. This workshop will explore the impact of emerging technologies on the way we live and work.



### The Future of Work: Artificial Intelligence & Automation

**Target Age:** 13-16

**Max Number:** 40

[Register here](#)

#### Overview:

We've all read the headlines: the robots are coming, and they will take our jobs. But the reality is more nuanced. Exponential growth in technology will disrupt entire industries but also create new ones. Many experts are asking the big questions: what jobs will be replaced by technology? Which ones will remain? How many will be created? This workshop will provide an introduction to the different effects of technological automation on the workforce.

Awecademy



# Secondary School Workshops



## Technology for Good: Global Challenges

**Target Age:** 13-16

**Max Number:** 40

[Register here](#)

### Overview:

Emerging technologies are providing us with powerful tools to tackle global challenges and contribute to human progress. How can we use exponential technologies - such as AI or Robotics - to end poverty, increase access to resources or create more sustainable sources of energy? This module will explore some of the ways innovators are using technology to have a positive impact on the world and inspire youth to follow their lead.



## Future of Education

**Target Age:** 13-16

**Max Number:** 40

[Register here](#)

### Overview:

Technology is already transforming the way we teach and learn. Digital classrooms, global online collaborations, and personalized learning are just the beginning. What will these technological trends in EdTech lead to? What will the word “education” even mean 30 years from now? This workshop will provide learners an overview of the technology trends that are revolutionizing the



## Finding Massive Transformative Purpose

**Target Age:** 13-16

**Max Number:** 40

[Register here](#)

### Overview:

For a team, company or individual to accomplish something extraordinary, it is important to have a powerful unifying purpose. A Massive Transformative Purpose (MTP) is described as a highly “aspirational tagline”, with a clear “WHY” and that serves to cause a significant transformation to the world. It is focused on creating a radical and exciting future. This workshop will focus on the importance of organizing a team around an MTP and how you derive your own personal or team MTP.

## Primary School Workshops



### Introduction to AI

**Target Age:** 10-12

**Max Number:** 40

[Register here](#)

#### Overview:

Artificial Intelligence (AI) is an exponentially growing technology that will revolutionize entire industries. AI is expected to have an impact on all major fields including big data, healthcare, education, security and much more. In order to be prepared for the future, we need to understand what AI is and what its applications are. This workshop provides an overview of different types of AI, industry trends and future predictions by experts in the field.



### Cosmic Citizenship

**Target Age:** 10-12

**Max Number:** 40

[Register here](#)

#### Overview:

What does it mean to be a Cosmic Citizen? At its core, the cosmic perspective is about zooming out and seeing the big picture. It involves acknowledging our place in the cosmos and stepping back and contemplating our purpose in the grand scheme of things. Learners who complete this workshop will leave with a better understanding of our place in the universe and how they can contribute to the future of our species. We will explore the rights and responsibilities of cosmic citizens and its importance in global education.



### Moonshot Thinking

**Target Age:** 10-12

**Max Number:** 40

[Register here](#)

#### Overview:

Contributing to human progress in a meaningful way requires certain mindsets and ways of thinking. Moonshot Thinking is one of those mindsets. Instead of looking to make a 10 percent gain or improvement in a current product or idea, moonshot thinking involves aiming for a 10x improvement of the status quo. This workshops will explore what Moonshot Thinking is, examples of notable moonshots and more importantly, how we can all adopt the mindset.

Awecademy

## Primary School Workshops



### Emerging technologies

**Target Age:** 10-12

**Max Number:** 40

[Register here](#)

#### Overview:

Exponential technologies such as artificial intelligence, advanced robotics, virtual reality, biotechnology, and digital medicine are a major source innovation, invention, and discovery. Breakthroughs in this area have the potential to positively affect billions of lives. This workshop will explore the impact of emerging technologies on the way we live and work.



### Introduction to Millennium Goals

**Target Age:** 10-12

**Max Number:** 40

[Register here](#)

#### Overview:

Introduction to Millennium Goals  
The United Nations Millennium Declaration, signed in September 2000 commits world leaders to combat poverty, hunger, disease, illiteracy, environmental degradation, discrimination against women amongst many more global challenges. How can students contribute to meeting the Millennium goals? This module will provide young minds with the skills, mindsets and values to tackle the Millennium Goals.



### Future Fluencies & 21C Skills

**Target Age:** 10-12

**Max Number:** 40

[Register here](#)

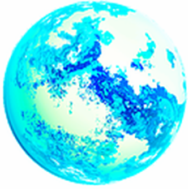
#### Overview:

We live in a world of accelerating change. New industries are constantly being born and old ones are becoming obsolete. A report by the World Economic Forum reveals that almost 65 percent of the jobs elementary school students will be doing in the future do not even exist yet. Both the workforce and our knowledge base are rapidly evolving. What are the skills future generations will need? This workshop will give an overview of the critical survival skills that our youth will need.

Awecademy



# Café Scientifique Workshops



## The Edge of the Universe

How big is the observable universe? What is it made of? What lies beyond it? Was there a time before the Big Bang? Could space have unseen dimensions? Join us as we explore the latest discoveries about the edge of space and the composition of the universe.



## Renewable Energy Sustainable Planet

How can we live sustainable lives? What is the science behind climate change? What are the consequences of a hotter or colder earth? What can we do to make a difference? How important is it to recycle? Join us, as we discuss the implications of living on a planet with limited resources.



## Top 10 mysteries in Science

What is dark matter and dark energy? What is the wellspring of creativity? What is consciousness? What is humour? What came before the Big Bang? How will the Universe end? What's inside a Black Hole? Join us, as we discuss these and other questions that have baffled the best minds on the planet.



## De-extinction & Creating New Species

We are now on the threshold of reviving extinct species and re-introducing them to the wild. Can it be done responsibly? Should it be done at all? Join us as we discuss the science behind de-extinction and debate the ethical and environmental repercussions of the creation of species by humans.



## Science and Pseudo-science

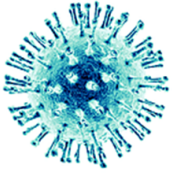
What's the difference between astrology and astronomy? Why did alchemy give way to chemistry? Are ghosts real? Can psychics communicate with the dead? Are palmistry and crystal gazing a science? What do we make of homeopathy and acupuncture? What's the role of the placebo effect? Join us as we discuss these and more.



## Human Brain-to-Brain Interface

Now that rat brains have been connected via the internet, it's only a matter of time before human brains link up directly in cyberspace. Join us as we discuss the human brain, the meaning of consciousness, and the consequences of uploading the mind and storing it digitally.

# Café Scientifique Workshops



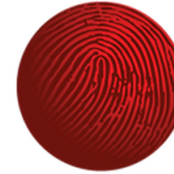
## Terraforming, Astrobiology, Exoplanets

How do we transform planets to adapt them to our needs ? What is the likelihood of finding extra-terrestrial life? What will it look like? What is the technology behind the search for exo planets? Join us, as we discuss the implications of leaving planet Earth and colonising other worlds.



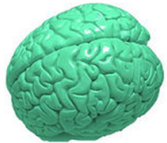
## Inventions that will change the world

In the history of humanity, the 20th century was unprecedented in scientific invention and discovery. How will the 21st century change our lives? What impact will 3D printing, nanotechnology, quantum computing, and genetic engineering have on what it means to be human? Join us, as we discuss the most exciting inventions of 2013.



## The Mars One Project

Mars One will establish the first human settlement on Mars in 2023. Join us as we discuss this next giant leap for humankind! Our guest speaker is Dubai resident, Mikolaj Zielinski, who is in the Mars One shortlist to be one of the first settlers on the Red Planet.



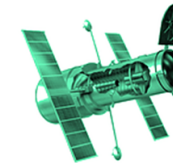
## Neuro-Education: The Brain and Learning

Neuroeducation is the conflation of Psychology, Pedagogy and Neuroscience. We have learnt more about the human brain in the last 5 years than we have in all the previous centuries combined. Brain mapping and brain scanning technologies are growing at an exponential rate. Join us as we discuss its impact on learning and education.



## Science and Pseudo-science

What's the difference between astrology and astronomy? Why did alchemy give way to chemistry? Are ghosts real? Can psychics communicate with the dead? Are palmistry and crystal gazing a science? What do we make of homeopathy and acupuncture? What's the role of the placebo effect? Join us as we discuss these and more.



## Exploring the Universe

The universe is vast and filled with mysteries. We've been wondering about the night sky since the dawn of time. These are exciting times for Astronomy. Join us as we talk about the wonders of the cosmos and discuss the implications of UAE's new \$30 million Al Marsad Space Observatory.

# Café Scientifique Workshops



## The Science behind Intelligent Optimism

The last thing we need is blind, lazy, and uninformed optimism. It's much more useful to be optimistic based on reason and by facing facts. Intelligent optimism is about being thrilled, excited, and optimistic about science, technology, and the future in an informed and rational way. Join us, as we discuss the science behind Intelligent Optimism.



## Inventions that will change the world

In the history of humanity, the 20th century was unprecedented in scientific invention and discovery. How will the 21st century change our lives? What impact will 3D printing, nanotechnology, quantum computing, and genetic engineering have on what it means to be human? Join us, as we discuss the most exciting inventions of 2013.



## The Technological Singularity

Can we create artificial intelligence? Can we reverse engineer the brain? Can we upload our consciousness to computers? Can we interface with artificial reality? Can we overcome death? Join us, as we discuss whether the concept of technological singularity is overoptimistic hype or a soon-to-be reality.



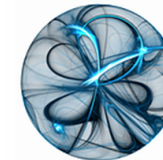
## Radical Lifespan Extension

How long would you like to live for? What if we could slow down the negative effects of aging? Can we ever eradicate death? Join our guest speaker, Aubrey de Grey, as he talks about how scientific developments in the last few decades have laid the foundation for a new class of medicines: rejuvenation biotech—targeted therapies that apply the principles of regenerative medicine across the entire scope of the damage of aging.



## The Future of Artificial Intelligence

Can we create artificial intelligence? Can we reverse engineer the brain? Can we upload our consciousness to computers? Can we interface with artificial reality? Can we overcome death? Join us, as we discuss whether the concept of technological singularity is overoptimistic hype or a soon-to-be reality. Entry by registration [Click here to register for tickets](#)



## String Theory & Quantum Weirdness

Physics is fun precisely because it's so weird, and the weirdness of it really is pivotal. Strange, counter-intuitive things happen at the quantum level. Physicists say nonlocality is the closest thing to real Harry Potter-ish magic they've ever seen. Einstein called it "spooky action at a distance." Join George Musser as he shows us not just how weird it is, but also seeks a rational explanation and dispel the intimations of magic....



SciFest Dubai

# Contact Us



## LOCATION

Dubai, UAE



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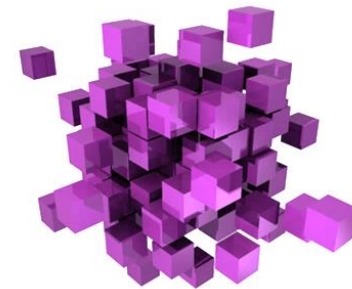
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## MORE INFO

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