

11:00am – 4:00pm Norman Lockyer Observatory

Entry: £10 Adults – Children and Friends Free

Activity 10:00am – 11:00am NLO
History Walk around the NLO – Free



Show 11:30am – 12:30pm
Science Boffins including Rocket Launch
Jaw dropping scientific experiments, mind blowing demos and entertaining, interactive games All ages

Show 12:30pm – 12:45pm
Juggling – with Juggling John All ages

Talk 1:00pm – 2:00pm
Dr Adam Rutherford – Book of Humans
We like to think of ourselves as exceptional beings, but are we really any more special than other animals? In an original and entertaining tour of life on Earth, Adam Rutherford will explore how many of the things once considered to be exclusively human are not. All ages

Talk 2:15pm – 3:15pm
Dr David Whitehouse – Apollo 11 The Inside Story All ages



Activity: 3:30pm
Jet Car Racing
Build your own jet car or race the one you have built earlier (kits available for £5 – see website) Under 18

Activities: 11:00am – 4:00pm
Hands on Activities
Build your own jet car to race, make your own motor, build the tallest spaghetti tower, Robots with Colin Walls, Pop Pop boating racing All ages

Space Detectives – with Jo Richardson
Virtual reality system simulating space flight All ages

Cheltenham Science Group	Under 11
Coding workshop – with 2 Times Do	Under 18
Story Telling with Mike O’Leary	All ages
Planetarium Shows	All ages
Institute of Engineering and Technology	All ages
Sid Valley Radio – Live Broadcasting	All ages
Visit to the Telescopes – Lockyer, Kensington and Connaught	All ages
RSPB	All ages
Ex periments	All ages
Sidmouth Ham Radio	All ages

Parish Church

Sunday 13th October Talk 7:00pm – 8:00pm
Dr Euan Nisbet – Caring for the Atmosphere
Greenhouse warming, pollution and climate change Ages 14 - Adult

Methodist Church

Sunday 20th October Talk 7:00pm – 8:00pm
Dr Martin Hodson and Rev Margot Hodson - Caring for the Earth:
Sustainable agriculture in a rapidly changing world. Ages 14 - Adult

Roman Catholic Church

Sunday 27th October Talk 7:00pm – 8:00pm
Dr Mark Windsor - Caring for the World:
Big Questions and conversations with young people Ages 14 - Adult



1. All Saints’ Church 2. Cricket Club 3. Kennaway House 4. Masonic Hall
5. The Kingswood & Devoran Hotel 6. Sidmouth Parish Church 7. Lifeboat Station
8. Methodist Church Hall 9. Sidmouth Museum 10. Manor Pavilion 11. Old Meeting House



Saturday 5th – Sunday 13th October 2019

Welcome to the eighth
Sidmouth Science Festival
*with events for everyone, adults,
children and families*
Age guidelines for events are on the programme
Booking through Eventbrite for some events
Photos and videos may be taken for promotional purposes



Friday 27th September 2019 (pre festival)

Science Festival Quiz – General Knowledge and some science
– form a team **7.00pm for 7.30pm start** £3
Ages 14 - Adult **Cricket Club**

Saturday 5th October 2019

Activity 10:30am for 1:00pm **Sidmouth Library**
Fun Palaces: Have a go at an easy experiment with
Libraries Unlimited **Ages 3 - 11**

Talk 2:00pm – 3:00pm **Kennaway Hatton Room**
Dr Pete Etchells – Lost in a Good Game
Why people play video games and do they affect our
behaviour? **Ages 14 - Adult**

Talk 3:15pm – 4:15pm **Kennaway Hatton Room**
Jonathan Scott – The Vinyl Frontier
The story of the golden record sent in 1977 beyond our solar system on
Voyager 1 and 2 **Ages 14 - Adult**

Activity 5:30pm – 8:00pm **Cycle Bridge. The Bys**
Bat Catching Research Session
Join ecologist **Louise Woolley** to help catch
bats for identification purposes as part of the
Sid Valley Bat Project **Adults only**



Sunday 6th October 2019

Activity 10:00am – 4:00pm **Esplanade**
Hands on Science
Have a go at lots of hands on science experiments
giant balloons, bubbles, electricity, vacuum vessels
and more... **All ages**

Activity 10:00am – 1:00pm **Esplanade**
Emergency Service Vehicles
Have a close up look! **All ages**



Talk 11:00am – 12:00pm **Sailing Club**
Short 10 mins talks – what to do in an emergency **Ages 14 - Adult**

Supported by Age Concern

Activity 2:00pm – 3:00pm **Norman Lockyer Observatory**
History Walk around the NLO **All ages**

Talk 1:00pm – 1:50pm **Sailing Club**
Dr Lewis Jones – Major Trauma - the first 4 hours
How major trauma is managed in the NHS in the initial few
“golden hours”. **Ages 14 - Adult**

Sunday 6th October 2019

Talk 2:00pm – 3:00pm
Steve Austen – Science and lifeboat safety
How science is improving lifeboat safety

continued

Sailing Club

Ages 14 - Adult

Talk 3:00pm – 3:30pm
Devon Air Ambulance

Sailing Club
Ages 14 - Adult



Talk 7:00pm – 9:00pm **All Saints' Church**
Professor Meric Srocosz – Caring for the Oceans
Looking at changing ocean dynamics including temperature,
acidity, salinity, sea levels and ice melt, followed by questions
and discussion **Ages 16 - Adult**

SCIENTISTS IN CONGREGATIONS

Monday 7th October 2019

Talk 7:00pm – 9:00pm **Norman Lockyer Observatory**
**Professor Ian Robson - The Supermassive
Black Hole at the Centre of our Galaxy**
How we know about such phenomena and what it means
for the formation and evolution of galaxies in the Universe **Ages 16 - Adult**



Tuesday 8th October 2019

Activity 10:00am – 12:00pm
Visit to the Lyme Way Winery (to be confirmed)

Lyme Bay Winery
Adults only

Booking Essential



Talk 3:00pm – 4:00pm **Kennaway Cellar Bar**
**Dr Rachael Nicholls-Lee – Wave and tidal power:
combating climate change** **Ages 14 - Adult**



Ada Lovelace Day

Talk 7:00pm – 9:00pm **Kingswood and Devoran Hotel**
Pint of Science – University of Exeter
Grab a pint and listen to experts talk about their
subject in a relaxed atmosphere. Food available. **Adults only**

Wednesday 9th October 2019

Talk 11:00am – 12:00pm **Parish Church**
Alexandra Drysdale – The Story of Blue on Art
Where does the blue in medieval illuminated manuscripts come from?
How did chemists of the nineteenth century invent synthetic blues?
Come along and discover more about how the colour blue has been
used in art. **Ages 16 - Adult**

In conjunction with the Art Society of Sidmouth

Activity 2:00pm – 3:30pm **Sidmouth Museum**
**Town walk exploring the geology
of the Jurassic Coast**
£2.50 each **Ages 16 - Adult**



Wednesday 9th October 2019 *continued*

Talk 2:00pm – 3:00pm

Parish Church

Dr Paul Matts – Skin as a barrier

Skin Disease, covering its scope and incidence (all the way from acne to serious, life-threatening conditions), its effect on the individual (from physical disability to the huge issue of stigma and ostracism)

Ages 14 - Adult

Talk 3:00pm – 4:00pm

Parish Church

Prof Anni Vanhatalo, Human Physiology at the University of Exeter

Helping Kenyan athlete Eliud Kipchoge to achieve a world record in the marathon

Ages 14 - Adult



Talk 7:00pm – 9:00pm

Pint of Science – Kings College London

Grab a pint and listen to experts talk about their subject in a relaxed atmosphere. Food available

Blue Ball, Sidford

Adults only



Thursday 10th October 2019

Workshop 1:30pm – 4:30pm

Sidholme Music Room

Melanie Mehta - L.O.V.E. – Language of Voice for Everyone

Workshop based around the structure, function and effective use of the voice. Often we think of voice being “singing” but voice is much more than that. This session will use both a presentation and practical exercises to highlight how the voice is made up, what impacts on our voice, how to care for our voices and exercises to warm up and maintain good voice use.

Adults only

In conjunction with the British Voice Association



Visit 1:00pm – 3:00pm

See what is involved in wastewater treatment? (Own transport and Booking essential)

Exeter Wastewater

Treatment works

Adults only

Activity 2:00pm – 3:30pm

Deep Time Walk led by the University of Exeter

Sidmouth Museum

All ages

Thursday 10th to Saturday 12th

Exhibition

Schools art exhibition from local schools on the theme of emergency services

Kennaway House



Thursday 10th October 2019 *continued*

Talk 7:30pm – 9:00pm

Manor Pavilion Theatre

Professor Danielle George - Big Universe

Big Data: how to handle the vastness

We have been measuring the physical world for a long time, so what's changed? The 'Internet of Things' ...What is all the hype about? In a word, its connectivity. We can now connect all sorts of everyday objects such as fridges, heart monitors and aeroplane engines. Professor George will explore how this is impacting our world today.

Ages 14 - Adult



BIG DATA



In conjunction with the Sid Vale Association

Friday 11th October 2019

Talk 2:30pm – 3:30pm

Manor Pavilion Theatre

Dame Julia Slingo - Climate Change:

A defining challenge for the 21st Century

Dame Julia considers the evidence for human influences on our climate, and describes how computer simulations of weather and climate tell us about the future. The potential impacts of future climate change will be discussed, along with the implications for how we produce and use energy, as well as managing Earth's limited resources.

Ages 14 - Adult



**In conjunction with
Devonshire Association**

Festival Reception 6:45pm – 7:30pm

Kennaway House

**With Guest Speaker Mr Philip Jenkinson,
Her Majesty's Deputy Lord-Lieutenant of Devon**

By invitation and for Friends of the Science Festival

Talk 7:30pm – 9:00pm

Kennaway House

**Professor Mike Depledge – Re-imagining
Nature and our place in it**

The threat to our continued survival from climate change, biodiversity loss, pollution and many other environmental stressors have led to calls for urgent action. How can we meet the exciting challenge of re-imagining Nature and our place in it, for the future?

Ages 14 - Adult

Booking Essential

Sidmouth Science Festival also puts on a programme of science activities inside local schools including:

Sidmouth College
St John's School
Sidmouth CE Primary
Newton Poppleford Primary
Tipton St John CE Primary
Feniton CE Primary
Ottery St Mary Primary
West Hill Primary
Whimble Primary
Sidbury Primary
Payhembury Primary

Schools



SUPER SCIENCE SATURDAY

Saturday 12th October 2019

Parish Church

Talk 10:30am – 11:30am
Dr Juha Saatsi – What do we know
about the nature of light?

Ages 14 - Adult

Talk 11:40am – 12:40pm
Pete Drewett – Sport Science and Successful Rugby
Union Performance.

Will the team that wins the World cup in Japan on November
2nd 2019 be the best at implementing Sport Science? **Ages 10 - Adult**

Free Hands-on activities for all the family



Follow the dinosaur footprints
to each venue and stamp your
card. Collect 6 stamps, then
return your card to Kennaway
House before 5:00pm to be
entered into the prize draw

11:00am – 5:00pm

Old Meeting House

**Tesla Coils and
Electrical Show**
– Alec Jefford
Flashes and bangs
and tricks you didn't
know you could do

All ages



Environment Agency

All ages

11:00am – 5:00pm

Lifeboat Station

Sidmouth Lifeboat
Find out about the work of the Sidmouth Lifeboat

All ages

11:00am – 5:00pm

Methodist Hall

Royal Society of Chemistry

All ages

Exeter Maths School - Mathematical puzzles to entertain

University of Exeter Medical School

Quekett Microscopical Club - Investigate the unseen world
with microscopes

Institute of Civil Engineers - Hands on building activities for all

University of Exeter Department of Sport

Young Devon - WHAT

11:00am – 5:00pm

Masonic Hall

Geology in our lives – minerals, rocks, fossils, and dinosaurs

– The geo-hall will be packed with stands offering hands on activities,
demonstrations, displays, models, fossils, minerals, rocks
...and much more

All Ages

Talk 11:15am – 11:45am

Mike Green - Influence of the Milankovitch Cycles on the
Earth's climate

Talk 12:00pm – 12:30pm

Malcolm Hart - Plankton, climate and life on Earth

Talk 1.30pm – 2.00pm

Kieran Satchell - Dinosaur research focusing on Allosaurus

Talk 2.15pm – 2.45pm

Colin Kilvington - Discovering Britain walks – “Tors and Tin”



11:00am – 5:00pm

Cricket Club Field

**Drone Racing with Hillbilly
Hot Quads**

Watch exciting drone racing
and use the virtual reality
headsets to fly the course

All ages



11:00am – 5:00pm

Market Square

John the Juggler

Defying gravity – watch John do some amazing tricks

All ages

11:00am – 5:00pm

Kennaway House

Colyton Grammar School and Petroc College

Cellar Bar

Hands on fun and hair raising demonstrations
– you will be amazed!

All ages

**Wonder Workshops, Fablab and
Colin White's Sporting Balls**

Blue Room

Experiments to amaze and find out about the
science of what we kick, throw and hit in sport

All ages

**Metamaterials, College of Science, Engineering
and Maths, and Exeter Optics Group**

Yellow Room

All ages

Met Office

Learn more about weather forecasting



Hatton Room

All ages

Astrophysics and Institute of Physics

Explore the furthest reaches of the Universe
and then the physical world here on earth

Amyatt Room

All ages

Pinhole Camera

See how the very first cameras produced a picture

Outside

All ages

Sid Valley Radio – live broadcasting



Foyer

7:00pm – 8:30pm

Norman Lockyer Observatory

Granny Galactica

Musical theatre based on science by David Haynes following
the story of Granny Nettle on a journey around the cosmos
led by Franklin, an alien robot

Booking essential – £5 adults, free for children and students **All ages**

