Summer Schools
July – August 2016
**About Summer Schools**

The Royal Institution Summer Schools are made up of an action-packed programme filled with fun, hands-on, educational workshops for anyone aged seven to 18.

This programme runs for five weeks from Monday 25 July to Friday 26 August and all sessions take place from Monday to Friday. From half-day and full-day workshops to week-long courses, our range of innovative and interactive workshops are designed to bring to life areas of science, mathematics, computer science and engineering.

Students will challenge themselves in a fun and engaging atmosphere and also experience the real life applications of these topics.

**About the workshops**

The laboratory science workshops are run by our team in the L’Oréal Young Scientist Centre, and offer students the chance to be a scientist for the day by experiencing a range of lab-based workshops.

The mathematics, engineering and computer science workshops are devised by the RI Masterclasses team and are led by experts from across industry and academia. They give students the chance to expand their knowledge of these topics and learn outside the school curriculum.

All workshops are run inside the Royal Institution building in the heart of central London.

**Age guidelines**

Workshops are divided into age ranges to ensure all students can get the most out of the workshops. Because of this, we cannot be flexible with ages. Our workshops are designed with specific ages in mind, so please make sure you book the correct workshops.

**Breaks and lunchtimes**

Half-day workshops for age 7–9 and age 10–12 contain a short supervised break. Full day workshops contain a 45 minute lunchbreak. For age 13–15, this is a supervised lunchbreak; students are only allowed to leave the building if permission is given at the time of booking. For age 16–18 the lunchbreak is unsupervised, and students are allowed to leave during this time.

Lunchbreaks on all laboratory science workshops are unsupervised. You will be notified of the time of this break should you want to collect your child for this.

**Find out more**

All workshops are listed in more detail on our website at rigb.org where you will also find an updated list of workshops which have sold out, and links to buy tickets.

Refunds can only be issued for tickets cancelled at least two weeks (14 calendar days) in advance of the workshop date. Please note that this supersedes our normal event terms and conditions.

**About Summer Schools**

The Royal Institution Summer Schools are made up of an action-packed programme filled with fun, hands-on, educational workshops for anyone aged seven to 18.

This programme runs for five weeks from Monday 25 July to Friday 26 August and all sessions take place from Monday to Friday. From half-day and full-day workshops to week-long courses, our range of innovative and interactive workshops are designed to bring to life areas of science, mathematics, computer science and engineering.

Students will challenge themselves in a fun and engaging atmosphere and also experience the real life applications of these topics.

**About the workshops**

The laboratory science workshops are run by our team in the L’Oréal Young Scientist Centre, and offer students the chance to be a scientist for the day by experiencing a range of lab-based workshops.

The mathematics, engineering and computer science workshops are devised by the RI Masterclasses team and are led by experts from across industry and academia. They give students the chance to expand their knowledge of these topics and learn outside the school curriculum.

All workshops are run inside the Royal Institution building in the heart of central London.

**Age guidelines**

Workshops are divided into age ranges to ensure all students can get the most out of the workshops. Because of this, we cannot be flexible with ages. Our workshops are designed with specific ages in mind, so please make sure you book the correct workshops.

**Breaks and lunchtimes**

Half-day workshops for age 7–9 and age 10–12 contain a short supervised break. Full day workshops contain a 45 minute lunchbreak. For age 13–15, this is a supervised lunchbreak; students are only allowed to leave the building if permission is given at the time of booking. For age 16–18 the lunchbreak is unsupervised, and students are allowed to leave during this time.

Lunchbreaks on all laboratory science workshops are unsupervised. You will be notified of the time of this break should you want to collect your child for this.

**Find out more**

All workshops are listed in more detail on our website at rigb.org where you will also find an updated list of workshops which have sold out, and links to buy tickets.

Refunds can only be issued for tickets cancelled at least two weeks (14 calendar days) in advance of the workshop date. Please note that this supersedes our normal event terms and conditions.
modern engineering, but how do they
Wind turbines are a triumph of
cost
Watkin
speaker
10.30am–3.30pm
WIND TURBINE ENGINEERING
Most turbines produce electricity by using 3D variations of the same concept and
will also investigate ideas of
world of mathematical shapes, known
Students will explore the intriguing
understanding of costs and benefits.
understand how the structure of shapes can change and how
mathematics relates to shapes.
FORENSICS
WED 27 JUL 11.00AM–3.00PM
Cost £35/£29.75 Ri Young Members
Logistics and information management
This workshop introduces processes
consideration of our environment,
becoming civil engineers in charge of designing a new railway. This will
understand how magnetism and electricity are linked and the
important electromagnetic principles which drive our modern world.
Students will see how liquids can be
magnetically, build an electromagnet,
and construct two types of motor.
THE ENIGMA OF CRYPTOGRAPHY
TUE 2 AUG 10.30AM–3.30PM
Speaker Tom Briggs
Cost £50/£42.50 Ri Young Members
Students will see some of the codes and ciphers used throughout history and some
of the methods used to break them. Students will work their way up from early military
cliques like Caesarshift to one of the most famous ciphers of all: Enigma, making use of
a real, working World War II Enigma machine!
LIFE ON MARS
THU 4 AUG 11.00AM–3.00PM
Speaker David Vaccaro
Cost £35/£29.75 Ri Young Members
This week-long Summer School will introduce the use of computing in exploring
mathematical ideas. Students will learn the basics of mathematical software Wolfram
Mathematica before being challenged to produce their own project, working individually
or in small groups to research and investigate a problem of their choice.
SHAKE, RATTLE AND ROLL
FRI 5 AUG 10.30AM–3.30PM
Speaker Steve Kane
Cost £50/£42.50 Ri Young Members
We hear about earthquakes and the devastation they can cause. But how do we
know where they have hit, or determine their severity? Students will explore
the mathematics behind earthquakes and will compete to build and test the most
effective earthquake-proof structures.

‘the best part of the workshop was working together as a team to create something incredible’
2015 Summer School student

Age 13–15
PLAYING GAMES WITH SQUARES
TUE 26 JUL 10.30AM–3.30PM
Speaker Katie Steckles
Cost £30/£25.50 Ri Young Members
Noughts and Crosses is an old, well-understood game, and in this workshop we will encourage you to play it! Starting from a simple square and going on to many interesting shapes, students will play different versions of this game to help understand how the structure of shapes can change and how mathematics relates to shapes.

Age 16–18
HOW TO KEEP A SECRET
MON 25 JUL 10.30AM–4.30PM
Speaker Chris Darby
Cost £50/£42.50 Ri Young Members
In the modern age of information and mass communication, how do governments, companies and people keep secrets safe? Students will learn how to build the modern equivalent of ancient Roman ciphers, invent their own cryptology and also see how, no matter how good the encryption, you can (almost) always find the secret message.

ON TRACK: DESIGNING RAILWAYS
THU 28 JUL 10.30AM–4.30PM
Speaker Jennifer Henderson
Cost £50/£42.50 Ri Young Members
What does it take to engineer a new railway? Students will explore this by becoming civil engineers in charge of designing a new railway. This will involve maths and physics, but also consideration of our environment, political pressures and an understanding of costs and benefits. Will you be up to the task?

THINKING INSIDE THE BOX
THU 4 AUG 10.30AM–4.30PM
Speaker Caroline Ainslie
Cost £50/£42.50 Ri Young Members
This workshop is a perplexing, puzzling, problem-solving period of fun challenges, to fire up enquiring minds. Young mathematicians will be exercising mathematical skills by collaborating, manipulating resources, spotting patterns, making decisions, estimating and building on lessons learnt. All of this using giant, colourful balloons.

Loudspeakers and Acoustics
MON 1 AUG 10.30AM–12.45PM
Speaker Jon Constable
Cost £30/£25.50 Ri Young Members
Acoustic devices are all around us, from loudspeakers to automotive exhausts, all with very different design outcomes. In this workshop, students will explore concepts that underpin modern acoustic theories, before constructing a working speaker from household materials.

PLATONIC SOLIDS
WED 3 AUG 10.30AM–12.45PM
Speaker Caroline Ainslie
Cost £30/£25.50 Ri Young Members
Students will create giant platonics out of balloons as well as other materials. Why are there only five platonics solids? Where do we find them in real life? What surprises are there in store for us?

EXTRACT YOUR OWN DNA
WED 3 AUG 11.00AM–1.00PM
Cost £30/£25.50 Ri Young Members
See p3 for description.

EXTRACT YOUR OWN DNA
WED 3 AUG 2.00PM–4.30PM
Cost £30/£25.50 Ri Young Members
See p3 for description.

PLATONIC SOLIDS
WED 3 AUG 2.00PM–4.30PM
Speaker Caroline Ainslie
Cost £30/£25.50 Ri Young Members
Students will see how liquids can be magnetised, build an electromagnet, and construct two types of motor.

Age 13–15
MAGNETS AND MOTORS
MON 1 AUG 11.00AM–3.00PM
Cost £35/£29.75 Ri Young Members
In this workshop, students will undertake a series of hands-on activities to understand how magnetism and electricity are linked and the important electromagnetic principles which drive our modern world. Students will see how liquids can be magnetised, build an electromagnet, and construct two types of motor.

Age 7–9
LOUDSPEAKERS AND ACOUSTICS
MON 2 AUG 10.30AM–12.45PM
Speaker Jon Constable
Cost £50/£42.50 Ri Young Members
This workshop is a perplexing, puzzling, problem-solving period of fun challenges, to fire up enquiring minds. Young mathematicians will be exercising mathematical skills by collaborating, manipulating resources, spotting patterns, making decisions, estimating and building on lessons learnt. All of this using giant, colourful balloons.

Age 10–12
LOUDSPEAKERS AND ACOUSTICS
MON 1 AUG 10.30AM–4.30PM
Speaker Jon Constable
Cost £30/£25.50 Ri Young Members
This workshop is a perplexing, puzzling, problem-solving period of fun challenges, to fire up enquiring minds. Young mathematicians will be exercising mathematical skills by collaborating, manipulating resources, spotting patterns, making decisions, estimating and building on lessons learnt. All of this using giant, colourful balloons.

Age 16–18
ADVENTURES IN TOPOLOGY
TUE 2 AUG 10.30AM–3.00PM
Speaker Luciano Rila
Cost £50/£42.50 Ri Young Members
See p4 for description.

Age 13–15
COMPUTER-BASED MATHS
MON 1 AUG 10.30AM–3.30PM
Speaker Jon Constable
Cost £35/£29.75 Ri Young Members
In this workshop, students will undertake a series of hands-on activities to understand how magnetism and electricity are linked and the important electromagnetic principles which drive our modern world. Students will see how liquids can be magnetised, build an electromagnet, and construct two types of motor.

Age 10–12
EXTRACT YOUR OWN DNA
WED 3 AUG 11.00AM–1.00PM
Cost £30/£25.50 Ri Young Members
See p3 for description.

COMPUTER-BASED MATHS
MON 1 AUG 10.30AM–3.30PM
Speaker Jon Constable
Cost £50/£42.50 Ri Young Members
Students will explore the intriguing world of mathematical shapes, known as Topology. They will see 3D shapes and games. Students will help create giant platonics out of balloons as well as other materials. Why are there only five platonics solids? Where do we find them in real life? What surprises are there in store for us?

WIND TURBINE ENGINEERING
FRI 29 JUL 10.30AM–3.30PM
Speaker Adam Johnson and Adam Watkin
Cost £50/£42.50 Ri Young Members
Wind turbines are a triumph of modern engineering, but how do they create energy? Students will design, build and test their own turbines to find out. They will learn the challenges behind their design, and the mathematics and engineering used in their construction, in a quest to build the most efficient wind turbine.

Age 16–18
ON TRACK: DESIGNING RAILWAYS
THU 28 JUL 10.30AM–4.30PM
Speaker Jennifer Henderson
Cost £50/£42.50 Ri Young Members
What does it take to engineer a new railway? Students will explore this by becoming civil engineers in charge of designing a new railway. This will involve maths and physics, but also consideration of our environment, political pressures and an understanding of costs and benefits. Will you be up to the task?

Age 7–9
EXTRACT YOUR OWN DNA
WED 3 AUG 11.00AM–1.00PM
Cost £30/£25.50 Ri Young Members
See p3 for description.
<table>
<thead>
<tr>
<th>AGE 7–9</th>
<th>AGE 10–12</th>
<th>AGE 13–15</th>
<th>AGE 16–18</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>WEEK 1</strong> 25–29 Jul</td>
<td><strong>WEEK 2</strong> 1–5 Aug</td>
<td><strong>WEEK 3</strong> 8–12 Aug</td>
<td><strong>WEEK 4</strong> 15–19 Aug</td>
</tr>
<tr>
<td>Mathematical origami</td>
<td>Mathematical origami</td>
<td>Mathematical origami</td>
<td>Building bridges</td>
</tr>
<tr>
<td>Magic of computer science</td>
<td>Magic of computer science</td>
<td>Number bases</td>
<td>The science of superheroes</td>
</tr>
<tr>
<td>Extract your own DNA</td>
<td>Extract your own DNA</td>
<td>Cosmetology</td>
<td>Earthquake engineering</td>
</tr>
<tr>
<td>Light it up</td>
<td>Thinking inside the box</td>
<td>Codes and ciphers</td>
<td>Networks</td>
</tr>
<tr>
<td>Mathematical modelling for beginners</td>
<td></td>
<td></td>
<td>Puzzles, mazes and turtle shapes</td>
</tr>
<tr>
<td>Wizards, witches, dwarves</td>
<td>Crash testing</td>
<td></td>
<td>Coding from scratch</td>
</tr>
<tr>
<td>Crash testing</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>AGE 7–9</strong></td>
<td><strong>AGE 10–12</strong></td>
<td><strong>AGE 13–15</strong></td>
<td><strong>AGE 16–18</strong></td>
</tr>
<tr>
<td><strong>WEEK 1</strong> 25–29 Jul</td>
<td><strong>WEEK 2</strong> 1–5 Aug</td>
<td><strong>WEEK 3</strong> 8–12 Aug</td>
<td><strong>WEEK 4</strong> 15–19 Aug</td>
</tr>
<tr>
<td>Mathematical origami</td>
<td>Mathematical origami</td>
<td>Mathematical origami</td>
<td>Building bridges</td>
</tr>
<tr>
<td>Magic of computer science</td>
<td>Magic of computer science</td>
<td>Number bases</td>
<td>The science of superheroes</td>
</tr>
<tr>
<td>Extract your own DNA</td>
<td>Extract your own DNA</td>
<td>Cosmetology</td>
<td>Earthquake engineering</td>
</tr>
<tr>
<td>Light it up</td>
<td>Thinking inside the box</td>
<td>Codes and ciphers</td>
<td>Networks</td>
</tr>
<tr>
<td>Mathematical modelling for beginners</td>
<td></td>
<td></td>
<td>Puzzles, mazes and turtle shapes</td>
</tr>
<tr>
<td>Wizards, witches, dwarves</td>
<td>Crash testing</td>
<td></td>
<td>Coding from scratch</td>
</tr>
<tr>
<td>Crash testing</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Find out more and book at rigb.org/families**
**WEEK 3**  
Monday 8–Friday 12 August

**Age 7–9**

**ENGINEERING IN 3D**  
**MON 8 AUG 10.00am–12.45pm**  
**SPEAKER** Kamel Madi and Loic Courtis  
**COST** £30/£25.50 Ri Young Members  
3D imaging is an exciting discipline for understanding and interrogating the world in which we live and work, from the complexity of the internal organs of the human body to the hidden beauty of environmental ecosystems. In this fun hands-on session, students will use LEGO, Play-Doh and more to explore this topic.

**NUMBER BASES**  
**TUE 9 AUG 10.30am–12.45pm**  
**SPEAKER** Zoe Griffths  
**COST** £30/£25.50 Ri Young Members  
The base 10 number system is used throughout the modern world, but why? What makes this system so popular? Students will investigate some of the many patterns hidden within Pascal’s Triangle in this hands-on workshop. Students will look inside this seemingly simple array of numbers to learn about loads of fascinating mathematical ideas. Number sequences, geometric shapes, probability and even fractals will be explored.

**COSMETIC CHEMISTRY**  
**TUE 9 AUG 11.00am–3.00pm**  
**SPEAKER** Jenny Sharp  
**COST** £30/£25.50 Ri Young Members  
Students will investigate acids and alkalis and how they neutralise each other by forming a salt. They will also observe the properties of oils and waxes and how they are able to dissolve into one another. These processes will help us to understand and manufacture of cosmetics such as bath bombs and lip balms.

**FABULOUS FRACTALS**  
**TUE 15 AUG 10.00am–12.45pm**  
**SPEAKER** Jenny Sharp  
**COST** £30/£25.50 Ri Young Members  
Triangles and then come together to build a giant one! Students will discover what a colour actually is, understand how objects become coloured, and how chemists can manipulate these aspects to produce both natural and synthetic dyes.

**ROCKETS!**  
**FRI 11 AUG 2.00pm–4.30pm**  
**SPEAKER** Perry Childs  
**COST** £30/£25.50 Ri Young Members  
Ever wondered how a rocket works? In this workshop, learn the basic principles behind how rockets work and enjoy making and testing your own using simple materials. Students will investigate rocket engineering from the initial design through to making and testing, learning about the challenges encountered along the way.

**ENGINEERING IN 3D**  
**TUE 16 AUG 10.00am–12.45pm**  
**SPEAKER** Kamel Madi and Loic Courtis  
**COST** £30/£25.50 Ri Young Members  
Students will explore numbers systems of the past but why? What makes this system so widely throughout the modern world, and compare them back to the base 10 system.

**WEEK 4**  
Monday 15–Friday 19 August

**Age 7–9**

**FABULOUS FRACTALS**  
**MON 15 AUG 10.30am–12.45pm**  
**SPEAKER** Natalya Silcott  
**COST** £30/£25.50 Ri Young Members  
Why do I really need to learn about loads of fascinating mathematical ideas? Number sequences, geometric shapes, probability and even fractals will be explored.

**INVESTIGATIONS WITH PASCAL’S TRIANGLE**  
**TUE 16 AUG 10.30am–3.30pm**  
**SPEAKER** Jenny Sharp  
**COST** £30/£25.50 Ri Young Members  
Students will discover what a colour actually is, understand how objects become coloured, and how chemists can manipulate these aspects to produce both natural and synthetic dyes.

**NUMBER SYSTEMS**  
**MON 15 AUG 10.00am–12.45pm**  
**SPEAKER** Ray Huntley  
**COST** £30/£25.50 Ri Young Members  
The base 10 number system is used widely throughout the modern world, but why? What makes this system so efficient and useful? Students will explore numbers systems of the past including Egyptian, Roman and Arabic systems, identify the strengths and weaknesses of each, and compare them back to the base 10 system.

**FUN WITH FIBONACCI**  
**FRI 19 AUG 10.00am–1.00pm**  
**SPEAKER** Jenny Sharp  
**COST** £30/£25.50 Ri Young Members  
Students will explore this idea, and how can maths and computing help? Find out in this fun hands-on session, using programming language Python to solve the secret agent’s problem, and build your own secure secret code.

**THE MYSTERY OF NUMBERS**  
**MON 15 AUG 10.00am–3.30pm**  
**SPEAKER** Mike Fletcher  
**COST** £30/£25.50 Ri Young Members  
Can mathematics help you to win a TV game show? In this workshop, students will explore this idea, and find if mathematics and probability theory can be used to make you more likely to win. Students will try out some games and learn about the mathematics behind them.

**PRIME ENCRYPTION RULES**  
**WED 17 AUG 10.00am–3.30pm**  
**SPEAKER** Ray Huntley  
**COST** £30/£25.50 Ri Young Members  
Can mathematics help you to win a TV game show? In this workshop, students will explore this idea, and see if mathematics and probability theory can be used to significantly increase your chances of winning certain game shows, and test their theories using real clips from TV.
A QUESTION OF TASTE

WEEK 4

Age 16–18

Monday 22 – Friday 26 August

CREDIT: COGNITIVE TECHNOLOGIES – IOP

10.00am–4.00pm

THE SCIENCE OF SUPERHEROES

MONDAY 23 AUG 10.30am–12.45pm

SPEAKER Alan Davies

COST £30/£25.50 Ri Young Members

People and animals have crossed rivers and gorges for thousands of years. From stone slabs and rope bridges to amazing modern bridges, they basically have the same idea – to provide a safe crossing. Students will explore different types of bridges in this workshop and design, construct and test their own.

COST £35/£29.75 Ri Young Members

MATHS, MACHINES AND TURTLE SHAPES

MONDAY 23 AUG 10.00am–4.30pm

SPEAKER David Nutting

COST £35/£29.75 Ri Young Members

The computer program has revolutionised the films we watch, the way we communicate and even the way we solve problems. Students will use fun, friendly and accessible computer programme Blockly to play with puzzles, mazes and turtles, get creative and have a go at solving some problems.

JOURNEY INTO THE FRAME

FRIDAY 26 AUG 10.30am–12.45pm

SPEAKER David Nutting

COST £30/£25.50 Ri Young Members

We use computers to play games, solve problems and communicate, and computer animation is everywhere. But how do you get started with programming? Students will explore the very basics of coding with the program Scratch, using graphics to help develop their ideas into real, working computer programs.

COST £50/£42.50 Ri Young Members

INTRODUCTION TO ROBOTICS

MONDAY 22 AUG 10.30am–3.30pm

SPEAKER Rustam Stolkin

COST £250/£212.50 Ri Young Members

Design and build specialised robots in this week-long Summer School. Students will learn the engineering principles and practical considerations of robotic design before working together to create an underwater retrieval robot and a sensor-controlled autonomous robot, considering real-world applications and presenting their products to the group.

MATHS FOR SCIENTISTS

WED 24 AUG 10.30am–4.30pm

SPEAKER Martin Yates

COST £50/£42.50 Ri Young Members

How do we know what makes a star shine, when we can’t see them? How do we know about black holes, when nobody has ever actually seen one? Astronomers answer these questions with a powerful tool: mathematical modelling. Students will build models of our universe and make forecasts about its nature and future.

CODING IN 3D

TUE 23 AUG 10.30am–6.30pm

SPEAKER David Nutting

COST £50/£42.50 Ri Young Members

What’s your favourite video game? Whether you like Minecraft or Candy Crush, the quality of the graphics plays a major part in how good a game feels. Spend the day exploring how images are rendered into 3D and get hands-on with the ideas and some of the code behind graphics processing.

YOU ARE A BIOENGINEER

MONDAY 22 AUG 10.30am–4.30pm

SPEAKER Rachel Dorris and Catherine Holloway

COST £50/£42.50 Ri Young Members

Students will learn the engineering principles and practical considerations of robotic design before working together to create an underwater retrieval robot and a sensor-controlled autonomous robot, considering real-world applications and presenting their products to the group.

MATHEMATICS FOR ASTRONOMERS

FRI 26 AUG 10.30am–4.30pm

SPEAKER Martin Yates

COST £50/£42.50 Ri Young Members

How do we know what makes a star shine, when we can’t see them? How do we know about black holes, when nobody has ever actually seen one? Astronomers answer these questions with a powerful tool: mathematical modelling. Students will build models of our universe and make forecasts about its nature and future.

‘thank you for a wonderful day the speaker was amazing’

2015 Summer School student
Family events
Looking for fun for the whole family this summer? Why not come to one of our exciting talks in our famous theatre? Throughout the year we have a range of talks for all ages, filled with amazing demonstrations and audience interaction. This summer you can see Marty Jopson exploring the science of everyday life, Matthew Tosh looking at the science behind special effects and Emma King showcasing the dangerous world of electricity. Find out more online at rigb.org/families

Financial assistance
The Potential Trust may be able to offer financial assistance to enable children to participate in Ri events and activities if this would otherwise be difficult. Please contact Anna Comino–James preferably via telephone on +44 (o)1844 351666 or email thepotentialtrust@gmail.com

Ri Young Membership
Are you passionate about science? Would you like to know more about the world around us? Join now as an Ri Young Member and receive 15% off your Summer Schools bookings.

Watch explosive demonstrations, take part in hands-on experiments and meet other young people with an interest in science. At the Royal Institution our aim is to make you think more deeply about the wonders and applications of science.

Ri Young Membership is open to everyone aged 17 or younger, who is curious about the world and is always asking questions.

If you have any questions please contact the membership team +44(0)20 7409 2992 membership@ri.ac.uk

FIND OUT MORE AND JOIN AT RIGB.ORG/MEMBERSHIP

More information
Please check the Ri’s online What’s On calendar for more details about each event, including details on what to bring to each session and information on lunch breaks.

rigb.org

Science on demand
Catch up with the latest Ri events, your favourite CHRISTMAS LECTURES and the best science videos from across the web on the award-winning Ri Channel.

www.richannel.org

Financial assistance
The Potential Trust may be able to offer financial assistance to enable children to participate in Ri events and activities if this would otherwise be difficult. Please contact Anna Comino–James preferably via telephone on +44 (o)1844 351666 or email thepotentialtrust@gmail.com

Faraday Museum
Explore the world-changing science that’s happened at the Ri since 1799. From Faraday’s original 1850s laboratory and the first electric motor to Davy’s miners’ lamp, everywhere you look you’ll discover something amazing! Free admission.

Family events
Looking for fun for the whole family this summer? Why not come to one of our exciting talks in our famous theatre? Throughout the year we have a range of talks for all ages, filled with amazing demonstrations and audience interaction. This summer you can see Marty Jopson exploring the science of everyday life, Matthew Tosh looking at the science behind special effects and Emma King showcasing the dangerous world of electricity. Find out more online at rigb.org/families

Ri Supporters

Ticket booking
The Royal Institution
21 Albemarle Street, London
W1S 4BS

TELEPHONE +44 (o)20 7409 2992
EMAIL ri@ri.ac.uk

BOOK ONLINE rigb.org.uk

Registered Charity No. 227938

images TIM MITCHELL, KATHERINE LEEDALE