



PROGRAMME PREVIEW

 6 - 8 June 2019

 Edinburgh International Conference Centre (EICC)

www.primaryscienceconference.org

THURSDAY
6TH JUNE



JIM AL-KHALILI

Jim Al-Khalili OBE is a British scientist, author and broadcaster. He is a professor of Physics at the University of Surrey where he also holds a chair in the Public Engagement in Science.

FRIDAY
7TH JUNE



LAURA SCHULTZ

Laura Schultz is a Professor of Cognitive Science at MIT. She is known for her work on early childhood development of cognition, causal inference, discovery, and learning.

SATURDAY
8TH JUNE



KATE BELLINGHAM

Kate Bellingham is a TV presenter, engineer, stage artist and musician, and a champion for girls in Science, Technology, Engineering and Mathematics (STEM).

Brought to you by:



In partnership with:



Over three days we are offering a varied and carefully chosen programme of the very best in professional development for primary science education, **delivered by experts**

The rich programme will provide a daily combination of sessions including:

PRACTICAL WORKSHOPS



Hands-on activities, practical strategies and solutions for making an impact in the classroom - plenty of ideas to take away and to share with colleagues back at school

KEYNOTE TALKS



Inspirational talks from world class experts

INTERACTIVE TALKS



Thought-provoking, illustrative and grounded in theory - ideas presented will be relevant and applicable to classroom practice, with time for questions and discussion

REFLECTIVE SEMINARS



Three short talks giving theoretical and practical perspectives on a particular aspect of science education, followed by an open discussion

SCIENCE SHOWS



Awe and wonder for adults - and the chance to learn some new science

PRACTICAL PICK & MIX



A lunchtime bonus in the exhibition hall - a selection of excellent suggestions and resources for delivering exciting practical science lessons

A DYNAMIC AND DIVERSE EXHIBITION

A fantastic networking space to meet exhibitors offering a wide-range of resources and ideas to support your practice in science and across the primary curriculum

DAY 1 - THURSDAY 6TH JUNE

Engagement and enjoyment, working scientifically, assessment, outdoor learning, teachers as researchers



KEYNOTE

Jim Al-Khalili OBE



INTERACTIVE TALKS

- Primary science opportunities in initial teacher education
- Effective primary science: what does the academic research tell us?
- Drama as a formative assessment tool in primary science
- Education for Our Planet
- Engaging with natural history museums
- Using images to inspire scientific thinking
- Accurate teacher assessment in primary science
- The Brian Cox School Experiments - Helping you to make experimental science easy and relevant



REFLECTIVE SEMINARS

- TAPS: making a lasting whole school impact
- The importance of engaging children in real scientific research
- Impact of Scotland's National Primary Cluster Programme in Science and Technology
- Learning science outside
- Evaluating your practice from different research perspectives
- Strengthening links between schools and phases
- The teacher as a researcher



PRACTICAL WORKSHOPS

Creative approaches to understanding evolution ■ Taking your science classroom outside ■ TAPS: supporting progression ■ Discover the natural world ■ Peer assessment using video ■ Creative approaches to 'working scientifically' ■ Getting hands-on in your classroom ■ Eliciting understanding through practical exploration ■ Standing on the shoulders of giants ■ Australian Aboriginal tool-making ■ SSERC and CLEAPSS practical workshop ■ Enabling child-led enquiry at breaktimes ■ Developing talk and explanation skills



PRACTICAL PICK & MIX

Primary STEM ideas ■ STEM bags ■ Science from scrap

10:30	Arrival, Registration and Coffee
12:00	Welcome
12:15	Keynote Talk - Jim Al-Khalili
13:15	Lunch and Exhibition
14:00	Session One
15:15	Coffee
15:45	Session Two
17:00	Exhibition Hall Event
18:00	Finish

DAY 2 - FRIDAY 7TH JUNE

The science of learning, play and early years, creativity, cross-curricular science, SEND, emotional well-being

KEYNOTE

Professor Laura Schultz

INTERACTIVE TALKS

- Developing curricula to foster creative, inquiry-based approaches to early years science
- The brain and learning: what do teaching professionals really need to know?
- The importance of play
- The Importance of excellent storytelling in science
- There is no Planet B - Listen to the children: they want to make a difference
- A focused approach to inclusive teaching and learning
- Who's more creative than me?
- Let's talk about animals and their lifestyles
- The science of positivity: improving teacher well-being
- How do teachers learn to ask good questions in science?
- Towards developing a model to address the crisis of teaching and learning science in South African schools

REFLECTIVE SEMINARS

- Children's scientific questioning - are we nearly there yet?
- Science learning in the early years
- Using children's dialogue to support progress in their learning
- Creative approaches
- Playing to teach and learn: pedagogies, challenges and ideas

PRACTICAL WORKSHOPS

Science, por favor! ■ Science Through Stories ■ Bringing the Jurassic Coast to your classroom
Tailoring science learning for SEND ■ Swinging sixties science ■ Recording in primary science
The elements and the Periodic Table at Primary School ■ Sensory Science - look, listen, sniff, feel
Addressing transition issues in inquiry science ■ Exploring chemistry in SEND schools
Improving writing through science ■ Engaging learners through cross-curricular real life problems
Where the great fire of London meets science enquiry ■ Language Skills through Experiments
Literacy in science ■ Science In My Pocket ■ Fairytale physics ■ Nurturing Schools "Naturehoods"
Help! How can I get more science into my teaching? ■ Science Through the Senses
Beyond the bug hunt ■ Supermarket science ■ Scotland beneath your Feet ■ Perfume Chemistry
Linking science and literacy ■ SunSpaceArt ■ Running a Stargazing Event ■ Science out of the box

PRACTICAL PICK & MIX

Ten Green bottles – upcycling science ■ Origami science ■ Making butter ■ STEMaStory

08:30	Arrival and Registration
09:00	Keynote Talk - Laura Schultz
10:30	Coffee
11:15	Session Three
12:30	Lunch and Exhibition
13:30	Session Four
14:45	Coffee
15:30	Session Five
17:00	Drinks reception
18:00	Finish

DAY 3 - SATURDAY 8TH JUNE

STEM, science capital, unconscious bias, transition, subject leadership

KEYNOTE

Kate Bellingham

INTERACTIVE TALKS

- 'Girl' brains and 'boy' brains? - Pink and blue or fifty shades of grey?
- Using the STEM Academy model to Improve Confidence, Co-creation and Continuity
- Tackling gender issues in STEM 3 -18
- Improving gender balance: promoting equity through exploring gender stereotypes
- Unplugged computer science and information handling
- Raising STEM career aspirations through the primary years
- Space in the primary curriculum
- Scientist of the week: breaking down STEM stereotypes
- Using engineering habits of mind with primary trainee teachers to support children's learning in STEM

REFLECTIVE SEMINARS

- Science capital and its relevance in primary schools
- Key stage 2/3 Transition
- Engaging children in science through real cutting-edge research
- Careers and the primary science curriculum
- Subject Leadership
- The STEM Education and Training Strategy for Scotland

PRACTICAL WORKSHOPS

Using floor books for teaching, learning and assessment ■ Creating innovative science resources
Data hunters on Mars ■ Making electronic books for science ■ Premier League primary science
Fat, fins, feathers, fur and the freezing cold! ■ e-bug – using classroom gaming as a learning tool
Light fantastic! ■ Cooking like a polar explorer ■ Enhancing science with digital technology
Explore STEM through dance and arts ■ Using microscopy to enrich teaching
SciPads – using technology in science ■ Embedding digital technology

PRACTICAL PICK & MIX

Fizz pop ■ STEM centres - makerspaces ■ Practical ideas for geosciences ■ Creating a makers' space

SCIENCE SHOW

A Pollutant's Tale

08:30	Arrival and Registration
09:00	Keynote Talk - Kate Bellingham
10:15	Session Six
11:30	Coffee
12:00	Session Seven
13:15	Lunch and Exhibition
14:00	Science Show
15:00	Conference close

Visit the
**PSTT Children's
Conference at
PSEC today - see
overleaf for more
details**



ALSO ON DAY 2 - FRIDAY 7TH JUNE
The PSTT children's conference at PSEC



PSTT are offering an exciting opportunity for **all children** to participate in a **climate change-based science project** in their school

- Carry out a science project based on a climate change issue relevant to your local area
- All schools who sign up will receive a **free Climate Change Teachers' Project Pack**
- Further support available for schools throughout the project
- Open to all primary schools

Apply for your school to present their project at the PSTT Children's Conference at PSEC. Children from thirty primary schools will be invited to PSEC to present their work on Friday 7th June.

Selected projects will be presented by children at PSEC, giving delegates a wealth of inspiration for their own schools



Find us on Facebook
 /primaryscienceteachingtrust
 Join our 'PSTT Children's Conference @ PSEC' group



@pstt_whyhow
 #PSECchildrensconf

For more information and to register for your free Climate Change Teachers' Project Pack visit:

www.primaryscienceconference.org



I went home bursting with ideas
PSEC Delegate, Belfast 2016

DELEGATE TICKETS

Tickets to PSEC 2019 are competitively priced in response to the tight budgets faced by many schools. Each pass is inclusive of lunch and refreshments. **10% Discount for all teachers attending from the same school***

**Applicable to Teacher Rate tickets only.*

PSEC Delegate Tickets	1 Day	2 Days	3 Days
Standard excl. VAT.	£150	£250	£300
Teacher* excl. VAT.	£110	£190	£240
Trainee Teacher incl. VAT ¹	£50	£90	£120

Buy your tickets now!

* NB PhD students and Teaching Assistants are eligible for tickets at the Teacher Rate.
¹Limited availability

If you have any queries about PSEC or eligibility for discounts, please contact us on info@primaryscienceconference.org

83%
 'Very Likely' to attend another PSEC

99%
 Agreed event 'met or exceeded' expectations

TEACHER BURSARIES

We are very fortunate that several organisations have generously donated funding for bursaries to enable teachers to come to our Primary Science Education Conference 2019.

Bursaries are worth up to £1,000 and can be used to cover:

- A three day conference ticket
- Hotel accommodation for the duration of the conference (two nights)
- Return travel to the conference venue
- Two days of supply cover
- One ticket to a PSTT CPD follow up event after the conference (Ts and Cs apply and expenses for this are not covered)

To be eligible to apply for a bursary, you must be a teacher who is employed in an infant, junior or primary school in the UK. You must have responsibility for the teaching of some science in your school although you do not need to be a science specialist. It is preferable, but not essential, that you are the subject leader for science.

Bursary applications will close on **December 14th 2018.**
 Visit our website to download the application form.

Our conference dinner will take place on 6th June 2019 at Edinburgh's imaginative, hands-on science centre, Dynamic Earth.

The dinner will celebrate the winners of our 2018 Primary Science Teacher Awards. These awards are given to outstanding classroom teachers who demonstrate innovative and creative practice, and who support colleagues in and beyond their own schools. All conference attendees and organisations are invited to the dinner.

Tickets are now on sale via our website.



ARE YOU:

- A teacher with a passion for primary science?
- A school leader who wants to improve the quality of teaching and learning of science in your school?
- An academic who wants to engage with primary science research and connect with practising teachers?
- Part of an organisation with a commitment to primary science?

Then our international Primary Science Education Conference is for you...

Buy your tickets today at primaryscienceconference.org

Please note the programme content shown is provisional. The organiser reserves the right to change, alter or cancel any part or aspect of the conference. Please refer to section 7 of our terms and conditions for more information.

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