INTERNATIONAL
PSEC
Primary
Science
Education
Conference
Outstanding Professional Development for all Primary Science Educators

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 2 - FRIDAY 7TH JUNE**

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

**KEYNOTE**
Professor Laura Schultz

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<th>Time</th>
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<td>08:30</td>
<td>Arrival and Registration</td>
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<td>09:00</td>
<td>Keynote Talk - Laura Schultz</td>
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<td>10:30</td>
<td>Coffee</td>
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<td>Session Three</td>
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<td>12:30</td>
<td>Lunch and Exhibition</td>
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<td>13:30</td>
<td>Session Four</td>
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<td>Coffee</td>
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<td>17:00</td>
<td>Drinks reception</td>
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**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 sixty-six 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

**DAY 3 - SATURDAY 8TH JUNE**

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

**KEYNOTE**
Kate Bellingham

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<td>Lunch and Exhibition</td>
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<tr>
<td>14:00</td>
<td>Science Show</td>
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<tr>
<td>15:00</td>
<td>Conference close</td>
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**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 ■ Making butter
- Engaging children in science through real cutting-edge research ■ Science Through the Senses
- Exploring chemistry in the primary curriculum ■ Science in your school kits ■ Developing cross-curricular science, STEM, subject capital and its relevance in primary schools
- Raising STEM careers awareness through the primary years ■ Computer science and information handling
- Computer science and information handling ■ Peer aspirations through the primary years ■ Creating a makers’ space

**PRACTICAL PICK & MIX**
- Fizz pop ■ STEM centres - makerspaces ■ Practical ideas for geosciences ■ Creating a makers’ space

**SCIENCE SHOW**
A Pollutant’s Tale
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.

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

**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.

**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*

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<thead>
<tr>
<th>PSEC Delegate Tickets</th>
<th>1 Day</th>
<th>2 Days</th>
<th>3 Days</th>
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<tr>
<td>Standard excl. VAT.</td>
<td>£150</td>
<td>£250</td>
<td>£300</td>
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<tr>
<td>Teacher excl. VAT.</td>
<td>£110</td>
<td>£190</td>
<td>£240</td>
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<tr>
<td>Trainee Teacher incl. VAT†</td>
<td>£50</td>
<td>£90</td>
<td>£120</td>
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*Applicable to Teacher Rate tickets only.

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

Limited availability

*Applicable to Teacher Rate tickets only.

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

www.primaryscienceconference.org
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.