Primary science conference 2016 (NY007)

The defining conference for primary science, helping teachers and leaders inspire pupils, develop cross-curricular approaches and embrace the science curriculum. This year's theme explores what it means to be a primary scientist by thinking and working scientifically.

With key note speakers:

- Dr Lynne Bianchi - Head of the Science & Engineering Education Research & Innovation Hub, University of Manchester
- Helen Wilson - Principal Lecturer: Science Education, Oxford Brookes University

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Keynote 1 - Dr Lynne Bianchi

AWEsome Primary Science – what can we do to create or maximise the experience?

Session summary:
The focus of this keynote will be on inspiring science learning – in ourselves, in our children and in our colleagues. This 3-part keynote will explore:

- the role of inspirational others in enhancing our approaches to working scientifically
- the role of wonder in developing children's investigations
- our role in facilitating peer-to-peer professional development

Age range: All

Optional Sessions: 11:10am – 12:00pm

Session A - Dr Lynne Bianchi and Julie Wiskow

Tinker Tailor Robot Pi – exploring a curriculum for science & engineering in primary school

Session summary:
This STEM focused workshop explores the relevance and resonance of primary engineering education considering the pedagogical implications of an engineering curriculum.

Age range: key stage 2 / Max number: 30

Session B - Developing budding scientists

Di Stead (Di Stead Science) and Lois Kelly (Kelly Consulting & Training) – Education Consultants

Session Summary:
Young children are naturally curious. Explore ways to nurture budding scientists across different areas of provision in EYFS settings.

Max Number: 25

Session C - Tim Peake and Space as a context for practical science

Rachel Jackson - Primary Specialist, ESERO-UK

Session summary:
Tim Peake has said that he wants to inspire children to engage in STEM subjects and to become more aware of STEM careers. There are many resources available which link to Tim's mission and space across the STEM subjects. This session will explore some exciting activities which support working scientifically across the science curriculum, but use space as a context for the learning.

Max number: 25

Session D - Supermarket science

Yolande Ifold (B.Ed; M.Phil) - Primary Science Consultant, National STEM Learning Centre and Network, Freelance Science Consultant

Session Summary:
This session will provide a range of imaginative and inexpensive solutions to assist with the planning and provision of motivating practical work

Age range: primarily key stage 2 (but can be adapted to suit other age ranges)

Max number: none

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Session E: Introduction to action planning

Optional sessions: 13:25 – 14:15

Session F - Bright ideas in primary science

Helen Wilson - Principal Lecturer: Science Education, Oxford Brookes University

Session summary:
A wealth of proven strategies to develop dedicated discussion slots in every primary science lesson

Age ranges: key stages 1 and 2

Max number: 30

Session G (repeated again as L) - Stick man science

Dr Katherine Forsey - Education & Outreach Consultant (Outdoor Learning Specialist)
Educate Everywhere: www.drforsey.com

Session summary:
Indoor and outdoor practical science activities, for EYFS and key stage 1, based around Julia Donaldson's book: Stick Man.

Age range: EYFS and key stage 1

All participants to be advised – we will be going outside for part of the session so please wear appropriate outdoor clothing and sensible footwear.

Max number: 25

Session H - More questions than answers

Christopher Smith - Science Subject Leader, Mulbarton Junior School, Norfolk/Associate Tutor, University of East Anglia (Primary PGCE)

Session Summary:
Practical suggestions to promote curiosity through awe and wonder. Developing children's questions as starting points for child-led enquiries.

Age Range: 3-11 / Max number: 30

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Session I - Dissection in the primary classroom

Zoe Giannoulis - Science Leader Prior Weston Primary School

Session Summary:
This workshop will cover how to perform dissection safely in the classroom and how to engage children – linking theory to reality.

Age range: key stage 2

Max number: 30

Optional sessions: 14:20 – 15:10

Session J - Taking science home: inspiring families to raise engagement in science

Jane Winter - Primary Professional Development Leader, CIEC

Session summary:
Ideas for exciting hands on science investigations that can be done in the classroom but are also suitable for children to carry on at home or to adapt for family science events in school.

Age ranges: 3-11

Max number: 25

Session K - Biographies enhancing science

Di Stead (Di Stead Science) and Lois Kelly (Kelly Consulting & Training) – Education Consultants (both of us)

Session Summary:
Inspire today's young scientists by exploring the life stories of some scientists whose work has had an impact on our lives.

Age range: key stage 1 and 2

Max number: 30

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Session L (repeat of session G) - Stick man science

Dr Katherine Forsey - Education & Outreach Consultant (Outdoor Learning Specialist)
Educate Everywhere: www.drforsey.com

Session summary:
Indoor and outdoor practical science activities, for EYFS and key stage 1, based around Julia Donaldson's book: Stick Man.

Age range: EYFS and key stage 1

All participants to be advised – we will be going outside for part of the session so please wear appropriate outdoor clothing and sensible footwear.

Max number: 25

Session M - Learning from Barrow, Stoke and Lowestoft engineering projects

Steve Smyth, Jen Smyth and Lynda Mann - Royal Academy of Engineering Consultants

Session Summary:
A hands-on session to make and take activities that have been developed to teach science in projects across the country.

Age Range: key stage 1 and 2

Max number: 25

Keynote 2 - The thinking, doing, talking science project

Helen Wilson - Principal Lecturer: Science Education, Oxford Brookes University

Session Summary:
Win, win, win: primary science lessons that teachers and pupils enjoy more and also improve pupil attainment.

Age range: all

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