

Dear Colleague,

Please find attached the outline of the day and a list of the workshops available for the Science Technicians' Conference on Friday 19th May 2017.

Please indicate your preferred **1st and 2nd** choice for **Workshop Sessions 1,2, and 3**; as far as possible we will try to accommodate your 1st choices.

Please note that some of the workshops appear in two slots whilst others appear only once.

Delegate Name: _____ **School:** _____

Dietary Requirements:

Access Requirements:

Programme:

8.45 – 9.00am	Arrival and Refreshments
9.00 - 9.30am	Welcome and Keynote Speech
9.30 – 10.30am	Session 1
10.30 – 10.50am	Break
10.50am - 11.50pm	Session 2
11.50 – 12.50pm	Lunch and Marketplace
12.50 - 1.50pm	Session 3
1.50 – 2.45pm	Technician's Question Time and refreshments
2.45pm	Close

Session 1:

<p>Workshop 1A: Do Physics</p> <p>Dave McKean, Teaching and Learning Coach, Institute of Physics, Stimulating Physics Network</p>	<p>A set of about 20 short, engaging, fairly simple experiments to enthuse pupils by letting them actually do the experiments without worrying too much about the explanations. Everything used is simple cheap and easy to obtain. Full details of all apparatus will be provided along with copies of worksheets.</p>	
<p>Workshop 1B: Leadership and Teamwork</p> <p>Simon Quinnell, National Technicians Lead, National Science Learning Centre</p>	<p>Do you lead a team or even just work in a team? If so this session will get you exploring and thinking about how you get the best out of working with your teammates (other technicians and teachers). The session will cover leadership and vision, self-awareness, team working and surviving difficult conversations all in the space of an hour. Designed for technician in mind and based on the senior technicians accredited co-leaders in science (STACS) course run at the National STEM Learning Centre, this session will give you a boost and strategies when working with others in your department and school.</p> <p>Outcomes</p> <ul style="list-style-type: none"> • Feel more confident when working with others • Describe ways to get the most out of team working • Explore your vision for the technical service in your school or college 	
<p>Workshop 1C: 'Magical' Enzymes</p> <p>Mary Howell MRSB, Education Consultant</p>	<p>This session will cover hints and tips for the enzymes experiments in the required GCSE and A level practicals, with a focus on, hands on preparation of materials and trying out the experiments. We will look at techniques such as making serial dilutions and using colorimeters. There will be a chance to refresh knowledge about enzymes health and safety. In addition there will be new twists and ideas for enzymes experiments that can be used with a range of ages and abilities.</p>	
<p>Workshop 1D: An introduction to working with Glass</p> <p>Jane Major, Technician Advisor, CLEAPSS</p>	<p>Learn about the different types of glass and when best to use them, have a go at making single and double bends in glass tubing and safely inserting tubing through rubber stoppers – all without cutting your fingers!</p>	

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Session 2:

<p>Workshop 2A: Do Physics</p> <p>Dave McKean, Teaching and Learning Coach, Institute of Physics, Stimulating Physics Network</p>	<p>A set of about 20 short, engaging, fairly simple experiments to enthuse pupils by letting them actually do the experiments without worrying too much about the explanations. Everything used is simple cheap and easy to obtain. Full details of all apparatus will be provided along with copies of worksheets.</p>	
<p>Workshop 2B: Simple Experiments</p> <p>Simon Quinnell, National Technicians Lead, National Science Learning Centre</p>	<p>We will explore a range of simple and inspiring practical ideas for use with students in science lessons many of them make can be used as starters, examples of science concepts or plenaries. The practicals will include the use of mobile technology such as tablets and smart phones, homemade science equipment, use of equipment and ideas from various sources and simple ways to capture and magnify images. The session will contain practical ideas for chemistry, biology, physics and the use of technology in the laboratory/classroom.</p> <p>Through demonstrations with hands on and visual activities, participants will be able to identify where to source the equipment, where it could be used and how to use a range of practical resources.</p>	
<p>Workshop 2C: 'Magical' Enzymes</p> <p>Mary Howell MRSB, Education Consultant. Biology Professional Development Lead, National Science Learning Centre</p>	<p>This session will cover hints and tips for the enzymes experiments in the required GCSE and A level practicals, with a focus on, hands on preparation of materials and trying out the experiments. We will look at techniques such as making serial dilutions and using colorimeters. There will be a chance to refresh knowledge about enzymes health and safety. In addition there will be new twists and ideas for enzymes experiments that can be used with a range of ages and abilities.</p>	
<p>Workshop 2D: RSC Resources and Practical</p> <p>Lucy Tetley, Education Coordinator, Royal Society of Chemistry.</p>	<p>Explore Learn Chemistry's free practical resources and support available as well as having a go at some cheap, engaging practicals. There will be a pack of resources to take back to your school as well as some ideas that can be used easily in your school for science clubs, KS3 curriculum or just for the love of Chemistry!</p>	

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Session 3:

<p>Workshop 3A: Scary Physics</p> <p>Dave McKean, Teaching and Learning Coach, Institute of Physics, Stimulating Physics Network</p>	<p>Many technicians and teachers are anxious about using certain pieces of apparatus, for example those to do with radioactivity and high voltage. We'll be looking at and using radioactive sources, transformers, the Van de Graaf generator and Cathode Ray tubes to remove the mystery and increase confidence.</p>	
<p>Workshop 3B: Simple Experiments</p> <p>Simon Quinnell, National Technicians Lead, National Science Learning Centre</p>	<p>We will explore a range of simple and inspiring practical ideas for use with students in science lessons many of them make can be used as starters, examples of science concepts or plenaries. The practicals will include the use of mobile technology such as tablets and smart phones, homemade science equipment, use of equipment and ideas from various sources and simple ways to capture and magnify images. The session will contain practical ideas for chemistry, biology, physics and the use of technology in the laboratory/classroom.</p> <p>Through demonstrations with hands on and visual activities, participants will be able to identify where to source the equipment, where it could be used and how to use a range of practical resources.</p>	
<p>Workshop 3C: RSC Resources and Practical</p> <p>Lucy Tetley, Education Coordinator, Royal Society of Chemistry.</p>	<p>Explore Learn Chemistry's free practical resources and support available as well as having a go at some cheap, engaging practicals. There will be a pack of resources to take back to your school as well as some ideas that can be used easily in your school for science clubs, KS3 curriculum or just for the love of Chemistry!</p>	
<p>Workshop 3D: Getting the most from CLEAPSS resources</p> <p>Jane Major, Technician Advisor, CLEAPSS</p>	<p>A guided tour around the new website, including having a look at CLEAPSS' latest resources and hints and tips for finding information that you want!</p> <p>Come prepared with any queries as these can be addressed during the workshop as well.</p>	

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Session 4:

Technician's Question Time	An opportunity to ask our panel of experts a question, on any aspect of your role, from day to day routines to advanced skills and techniques and everything in between. This session will also include time to reflect on the day and make plans for actions to take back to school.	
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