

SUMMER



TECHNICIANS CONFERENCE

[BOOK HERE](#)

Wednesday 7 July 2021

9 – 3:30

£30 for
the day

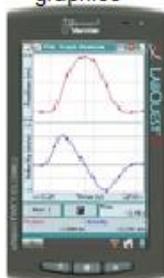
Join SWELPS and the South London Technician Group for an action packed day of CPD. We will explore new and innovative ways to tackle some of the current issues facing technicians.

This online conference is being held on zoom and you will have the opportunity to hear from experts from all aspects of science. We have a series of workshops across the 4 sessions and you will select which learning stream you would like to follow.

The event is being opened with a keynote from Simon Quinnell and you can expect to be enthused, entertained and inspired!



Vernier datalogging
graphics



Simon Quinnell – Practical Science

IOP
Institute of Physics



Chris Pambou - City & Islington
College



Programme of Events

9 - 9:50 **Keynote:** The importance of technicians and practical work

10 – 10:50 Session 1

11 – 11:50 Session 2

12 – 12:30 Session for everyone: Science Learning Partnership & STEM Ambassadors: A chance to find out more.

12:30 – 1:20 Lunch

1:20 – 2:10 Session 3

2:20 – 3:10 Session 4

3:20 – 3:30 Final comments, evaluation and next steps

Keynote

Simon Quinell is the outgoing Chair for ASE 2020- 2021, Science education Consultant and PGCE Science Lead. Previously Senior Professional Development Leader at the National STEM Learning at the University of York.

In his keynote Simon will discuss why technicians and practical work are important. This interactive talk will get you thinking about what we do, how we do it, and how we can improve the role of technicians and why it makes a difference. We'll also look at updates on technician activities and projects.

Workshop A Session 1 & 4

Medical Mavericks:

The human guinea pig show

Meet **Tom Warrender**. as he takes you through a series of live medical demos including an ultrasound of his carotid artery and jugular vein, recording of an ECG and taking a photo of the inside of his eye- all at the same time as introducing careers in the NHS that you've never heard of before! There'll be 1 or 2 demos you can take back to school that don't require any special equipment and every attendee will receive a copy of Tom's book "Classroom to Clinic"

Workshop B Session 3 & 4

Ecology Fieldwork – Taking Learning Beyond the Classroom!

Dr Katherine Forsey CSciTeach will lead us through a whirlwind tour of simple ecology fieldwork techniques that can be carried out in the school grounds or gardens using readily available, recycled and home-made equipment. You will start making your own equipment live during the session. The session will cover the equipment and techniques needed for the ecology required practical. There will be a pre session kit list.

Workshop C Session 2

IOP: Robert Birke will introduce IOPSpark and lead us through physics animations and introduce the vast array of videos and practical resources available to technicians as well as teachers.

Workshop D Session 2 & 3

Simple and engaging chemistry practical ideas: *Simon Quinell* “We’ll explore a range of simple and innovative chemistry practicals and demonstrations for KS3 & 4. Using live demonstrations and video we’ll look at a range of exciting and engaging chemistry practicals for students. Each practical will discuss the sourcing, preparation and procedures.”

Workshop E Session 3

Physics- tackling physics practicals and equipment problems *Chris Pambou, Chief Science Technician City and Islington College*

Help demystifying some electrical equipment and setups.

Workshop F Session 4

Labexpert: *Chris Pambou* will lead us through his stock control software, demonstrate how easy it is to generate reports, and answer your questions. He will and show us how his label printers link to the software and provide quick solutions for stock inventories.

Workshop G Session 2

Graphing and data capture with Vernier: *Dan Roberts of IDS* will be demonstrating some of the less well known and powerful tools of the Vernier Graphical Analysis software. He will show how to calibrate sensors, and demonstrate some live experiments including using the Vernier spirometer.

Workshop H Session 1 & 3

CLEAPSS: How CLEAPSS helps technicians support biology practical work safely and effectively.

Jane Major Section Lead Technical Services CLEAPSS will be navigating us around the CLEAPSS website, showing resources particularly helpful to technicians supporting biology practical work. Not only will you get an idea of the range of resources available, you’ll also gain some useful tips on searching the website.

Workshop I Sessions 1 & 2

RSC: Practical chemistry, managing the cognitive load.

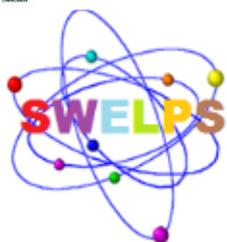
Dr Rizwana K Alvi PhD AMRSC

Education Coordinator, RSC East

Katie Nuttall BSc PGCE MRSC

Education Coordinator, RSC South East

Rizwana and Katie will discuss the research behind cognitive load, highlight RSC simulations to support practical chemistry and show some demonstrations.



Please choose a workshop from each session and complete the workshop preferences form

[HERE](#)

Session 1:

- A Medical Mavericks: The human guinea pig show
- H CLEAPSS supporting Biology practical work
- I RSC: Practical chemistry, managing the cognitive load

Session 2:

- C IoPSpark resources for Physics
- D Simple and engaging chemistry practical ideas:
- G Graphing and data capture with Vernier
- I RSC: Practical chemistry, managing the cognitive load

Session 3:

- B Ecology Fieldwork – Taking Learning Beyond the Classroom!
- D Simple and engaging chemistry practical ideas:
- E Physics- tackling the physics practicals and equipment problems
- H CLEAPSS supporting Biology practical work

Session 4:

- A Medical Mavericks: The human guinea pig show
- B Ecology Fieldwork – Taking Learning Beyond the Classroom!
- F Labexpert- The solution to stock control, labelling and reports