

## **Technician's conference session information**

### **3A Apprentices: what do I need to know?**

Do you have an apprentice technician?

If you have responsibility for training an apprentice this session will provide you with guidance and support to help you get the best out of them. At Nottingham Academy we have been successfully training apprentices for several years and this will be an opportunity to look at the training structure and some of the techniques we use from both the trainer and the trainee's perspective.

This will be a theoretical session with an overview of how to interview, induct and train an apprentice alongside your own role. Advice on any aspect of "working with an apprentice" will be available.

There will be chance to explore the time commitment, how to deal with foreseeable problems, how to motivate and what steps to take when it just isn't working.

Karen Curzon RSciTech senior technician Nottingham Academy

Holly Law science technician. Nottingham Academy (former apprentice)

### **3B Leading your Technicians service**

Do you lead a team or a technician's service on your own? If the answer is yes then this session may help you make your technicians service more effective. Exploring good communication skills, working with others, change management and organisation systems this session will give you a toolkit to improve your technical service back in your school or college.

Simon Quinnell National Technicians Lead

### **3C Enhance your practical skills with CLEAPSS**

In this hands-on session technicians will have the opportunity to practise three important technical skills; glass working, soldering and microscope fault finding.

During the session they will gain the knowledge and confidence to:

Cut glass tubing and manipulate in a bunsen flame

Solder electrical contacts

Identify and correct the most common faults found in microscopes.

Jane Major, Technician Adviser CLEAPSS; Mary Owen, Senior Science Technician CLEAPSS; Chris Peel, Part-time Technician Adviser CLEAPSS.

### **3D Colourful Chemistry**

In this hands on practical session we will explore the science behind colourful chemistry experiments. Suitable for technicians supporting GCSE and A Level chemistry we will look at colorimetry, spectroscopy, making dyes and chromatography amongst other exciting and colourful chemistry practicals.

Mark Langley Science CPD Lead

### **3E Don't believe your eyes**

A miscellany of illusions and 'magic'. Is it Science or sorcery? Be prepared to doubt the evidence of your eyes in this Interactive workshop. Mostly Physics with a hint of Biology and Chemistry thrown in. You should, hopefully, leave. With some new ideas for engaging and thought-provoking demos. Good for starters, STEM clubs, Open Days and outreach

Mark Robinson

### **4A Measuring cells**

This session looks at microscopes, stage micrometres and eyepiece graticules and how to use them to measure simple cells, on slides you will prepare.

Tina Farr Senior Technician

### **4B Paper and Pennies**

Cheap and simple practical resources to enhance any science lesson or STEM Club. In the session you will have a hands on go at a range of inexpensive practical ideas and paper activities that will engage students and teachers alike.

Michelle McAnallan and Marie Guinness Senior Technicians

### **4C Mindfulness in the prep room**

Learn simple techniques to help deal with stress at work and help to create for yourself a better work life balance. This session is aimed specifically at technicians and will address pressures that they face on a daily basis

Includes:

- Mindfulness
- Meditation
- Time management strategies
- Assertiveness

Terri Hoggart

### **4D Whats in my Tray 2018**

Description: An all new activity selection for 2018, this popular workshop returns with a carousel of practical science activities. This will be a fast paced, hands on workshop. Tweeting will be encouraged via #whatsinmytray and there will be prizes for the winning teams.

Outcomes: Participants will gain hands-on experience of five practical activities that could be used as lesson starters and to support theory work or as interactive activities for open days, parent's evenings and STEM clubs. Equipment lists and an introductory PowerPoint will be supplied to support you with recreating all of the activities back in your own setting.

Katherine Forsey

## **4E STEM Club ideas and SOW**

Fantastic fun ideas from my new and exciting 3rd year schemes of work. Whether you are thinking of running a STEM club or looking for new ideas this is for you. If you've been in my workshop before this is totally different!

Angie Ridout Lead technician

## **5A Technicians Leading primary science activities**

As more schools become part of MATs secondary schools are taking a more active role in taking practical science to primary students.

This session will look at ways you, as a technician; can take the lead in planning, preparing and delivering practical science activities for primary students of all ages. This will include how to plan, budget, prepare, transport and deliver exciting and objective based activities either at your school, at a local primary school or outdoors. This could be part of

1. Science clubs
2. Transition
3. Outreach
4. One off days
5. Open evenings
6. School fairs
7. Science weeks
8. KS2 curriculum

You will gain an insight into how to pitch at an appropriate level and use feedback to develop further ideas.

The session will be practical based showing examples of activities we have planned and used within our own and feeder schools. Practical suggestions and ideas will be discussed throughout the session.

Karen Curzon RsciTech Senior Technician Nottingham Academy

Holly Law Science Technician Nottingham Academy

## **5B New Techs Survival Kit – How to survive the first year and beyond!**

Suitable for anybody new to being a school science technician or anybody who has been in post for less than a year (approximately). An informal discussion based session giving tips drawing from experience of what is useful during the first year and beyond.

## **5C Required Practical Activities “Trouble shooting”**

This session will be a chance to get hands on with some of the required practical activities, which prove to be tricky when the pupils get their hands on them, and a chance to swap great ideas for what works best with fellow techs.

Liz Testa Senior Technician

## **5D Brilliant biology**

Join me and explore a range of my favourite biology practicals across KS3/KS4 and KS5, from enzymes to cells, plants to genes and dissections to microbes. The session will show you where to source and how to set up these practical's and get to have a go at them to deepen your biology knowledge, suitable for new and experienced technicians. Making biology work and maintaining interest and innovation in biology practical work.

Simon Quinnell national Technicians Lead STEM Learning

## **5E “Oh no it’s required” MkII (If circuits really aren’t your thing ...then this is for you!!)**

Aimed at non specialist technicians or those for whom physics isn't your first choice , this session looks at some of the KS4/KS5 Physics required practicals , exploring what can be done and setting them up with more confidence going forward.

Outcomes: Attending technicians should have a greater confidence in identifying and setting up required practical equipment

Correct use of Ammeters and Voltmeters in a circuit

Using multimeters, identifying the various scales and incorporating the multimeter into a circuit correctly.

Physics doesn't bite...honestly!!

Paul Cook Senior Technician