



Monday 10th July 2017



Technician conference - Worthing College

0900-0930	Arrival		
0930 - 0935	Introduction and welcome		
0935 - 1020	"Getting the best from your technician" Chris Peel, CLEAPSS - Key note speaker		
1030 - 1130	Hands on working with glass Chris Peel, CLEAPSS (repeated max 16)	Physics for the faint hearted Colin Piper, IOP	Right tools for the Job", looking at glass vs plastic Michelle Powner (repeated)
1130 - 1150	Break		
1150-1250	iPads and smartphones in Science. Steve Emery Instruments Direct Ltd	RSciTech – what you need to know. Alice O'Connor, RSC	Right tools for the Job", looking at glass vs plastic Michelle Powner (repeated)
1250 - 1330	Lunch and visit the exhibitors.		
1330 - 1430	Hands on working with glass. Chris Peel, CLEAPSS (repeated max 16))	Effective and safe demonstrations. Sam Weston, MSLC	3M Petrifilm workshop SLS Select Education
1430-1450	Break		
1450 - 1550	Meet the exhibitors Exhibitors	Aseptic techniques in microbiology. Worthing College	'Voice on a light beam' Ray Perry, Worthing College
1550 - 1600	Evaluations and closing remarks		

Workshop summaries

Hands on working with glass – Chris Peel, CLEAPSS

In this hands-on workshop, technicians will gain confidence and skills to make delivery tubes and some other glass items used in school science. They will learn some glasswork techniques and get some useful tips.

“Voice on a light beam” – Ray Perry, Worthing College.

Based on one of the challenges from the Death Valley series of Rough Science (BBC2), Ray will teach you how to use light to send Morse code messages and how to put a voice on the light, which is a principle that could be used to communicate across the vacuum of space. Ray will run through the electronics and the experiment which could then be used for a science class or club.

Right tools for the Job", looking at glass vs plastic - Michelle Powner,

- *When can plastic be used and why it can be a good alternative in safety terms in relation to the currently GCSE's and A level practical's.*
- *Not all plastics are the same – the chemical resistance characteristics of different types of plastics - explain the chemicals for that experiment and the compatibility of the plastic and what you should and shouldn't use and the effect this can have. Storage solutions.*
- *Keep it clean – effective methods hints and tips of cleaning and maintaining your glassware – this is highlighting those partial experiments when you need to get the glass clean, hands on to see what we should and shouldn't use.*

RSciTech – what you need to know – Alice O'Connor, RSC

Registered Science Technician (RSciTech) and Registered Scientist (RSci) are work-based competences, which recognise skills, knowledge and experiences gained in the workplace. Find out more about professional registration and how you can become recognised for your work.

Effective and Safe demonstrations – Sam Weston, MSLC University of Southampton.

Inspiration taken from the ASE guide “surely that’s banned”. Session will go through effect demonstrations that can be used in the classroom. To include alternatives to teaching half life and thermite.

iPads and smartphones in Science - Steve Emery, Instruments Direct (Services) Ltd

The sessions would be about utilising hand held devices such as ipads and smartphones in a science class to collect and analyse data. In many cases this does away with traditional data loggers enabling schools to perform data logging tasks at a much lower cost by utilizing the IT provisions they already have and also by utilising BYOD.

Aseptic techniques in microbiology – Worthing College

Looking at effective techniques required to set up and dispose of microbiology practicals.

Meet the exhibitors

An opportunity to spend time learning about new resources available to help support better teaching in science

3M Petrifilm Plates

No need for Agar plates! Just think how long it takes to prepare and pour traditional Agar plates. Petrifilm is ready to use instantly and is very easy to use. The workshop will show you how Petrifilm can be used in your school now.

Supplier and Organisation Exhibition includes: Breckland Scientific, CLEAPSS, Data Harvest, Scientific & Chemical, SciLabWare, Timstar, Gratec, Royal Society of Chemistry and Scientific Lab Supplies.

Cost: £75.00 per technician (maintained and independent schools and colleges) – includes lunch, refreshments and conference materials.

To book: Email mssc@soton.ac.uk or telephone 02380 598810 with name, job title, school info and any dietary or accessibility requirements.

This conference has been organised in partnership with Worthing College and the Mathematics and Science Learning Centre, Southampton. Mathematics and Science

*Learning Centre, Southampton Education School, Level 3 Building 29,
Highfield Campus, University of Southampton, SO17 1BJ, Tel 02380 598810*

Email mssc@soton.ac.uk Fax 02380 598811

