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| 0900-0930 | Arrival  Registration, tea and coffee | | | |
| 0930 - 0935 | Introduction and welcome | | | |
| 0935 - 1020 | “Save our Science technicians” Dr Carys Hughes, Key note speaker | | | |
| 1030 - 1130 | 1a) Wireless connectivity in data- logging\*  Iain Davison, Data Harvest  Rm 203 | 1b) Integrating CPAC into A level Chemistry practicals  Val Clay and Narissa Strutt, Worthing College  Rm 201 | 1c) Required GCSE Physics practicals  Colin Piper, IOP  Rm 266 | 1d) Prep room management and health and safety.  STEM learning  Rm 258 |
| 1130 - 1150 | Break  Refreshments and networking opportunity | | | |
| 1150-1250 | 2a) RAF 100 STEM activities\*  Taj Bhutta, IOP  Rm 203 | 2b) Practical plant biology\* (repeated)  Dr Carys Hughes  Rm 274 | 2c) Required A level Physics practicals  Colin Piper, IOP  Rm 266 | 2d) Chemistry GCSE required practicals  STEM learning  Rm 201 |
| 1250 - 1330 | Lunch and Visit the exhibitors and enter in the raffles. Networking opportunity | | | |
| 1330 - 1430 | 3a) Biology GCSE required practicals\*  Sam Weston  Rm 203 | 3b) Practical plant biology\* (repeated)  Dr Carys Hughes  Rm 274 | 3c) Radioactivity  Colin Piper, IOP  Rm 266 | 3d) Build a variable frequency pulse generator –make and take\*  (limited spaces – double sessions)  Rm 268 |
| 1430-1435 | Swap rooms | | | |
| 1435 - 1535 | 4a) STEM clubs  Chichester University  Rm 203 | 4b) Required A level Biology practicals\*  Julia Hoare, Worthing College  Rm 274 | 4c) Basic circuits – multi meters  Colin Piper, IOP  Rm 266 | 4d) Build a variable frequency pulse generator –make and take\*  (limited spaces – double sessions)  Rm 268 |
| 1535 - 1545 | Networks  Evaluations and closing remarks | | | |

**\* Workshop summaries**

**Wireless connectivity in data-logging** - Iain Davison, Data harvest

A hands-on workshop using the latest wireless technologies to make data-logging as simple and reliable as a sharpened pencil. If you have a smart-phone, iPad, net-book, lap-top, Android-tablet please bring them along and see how easy it is to data-log with them – the software/Apps are all free. There will be experiments for you try across the age-range and spectrum including the required practicals.

**Practical plant biology** - Carys Hughes, University of Southampton

A look at the new SAPS resources to investigate plants.

**Required GCSE Biology practicals** - Sam Weston , University of Southampton

A look at some of the AQA required practicals, ways to run them and alternatives that may come up in the exams.

**Have a go at a couple of Biology A level required practicals:**

* Using a calibration curve to identify an unknown concentration using a log graph
* Using aseptic techniques to investigate the effect of antimicrobials

**RAF100 STEM activities -** Taj Bhutta, IOP

In commemoration of 100 years of the RAF, the RAF and IOP have put together a number of STEM resources and activities for schools to use. In this session you will learn all about what is available.

**Build a variable frequency pulse generator –make and take**

This is a double session where you will be making a variable frequency pulse generator to take home with you.

**Supplier and Organisation Exhibition includes:** Data Harvest, Scientific Lab Supplies, Instruments direct services, Scichem, STEM leasrning, STEM ambassadors, Findel Education, Institute of Physics and Royal Society of Chemistry.

**How to book**

**Cost:** £75.00 per technician – includes lunch, refreshments and conference materials.

**To book:** contact Mathematics and Science Learning Centre – [mslc@soton.ac.uk](mailto:mslc@soton.ac.uk), 023 8059 8810. Please indicate which sessions you would like to attend. Please note that some of these sessions may have limited space and will be offered on a first reply basis.

*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*** *mslc@soton.ac.uk* ***Fax*** *02380 598811*