



IOP Institute of Physics

Secondary Science TeachMeet

Bolton School Boys' Division, Chorley New Road, Bolton, BL1 4PA

Thursday 24th November 2016

17.00-19.30

Fee: £5 (cheques payable to Bolton School by post to Dr. K. Turner at the above address)

Conference aims: To provide a meeting place for teachers of chemistry (any specification and all ages 11-18), informal CPD and facilitate local collaboration.

Time	Session	Location
16.45	Refreshments available	Upper Hall, Arts Centre
17.00-17.15	Welcome	Upper Hall, Arts Centre
17.15-17.45	Session 1	Choice of sessions
17.45-18.15	Session 2	Choice of sessions
18.15-18.45	Pizza buffet tea	Upper Hall, Arts Centre
18.45-19.15	Session 3	Choice of sessions
19.15-19.30	Plenary and networking	Upper Hall, Arts Centre
19.30-20.30	Optional networking with mulled wine and mince pies	Upper Hall, Arts Centre

Session 1 options	Session 2 options	Session 3 options
Chemistry practicals for the new GCSE PAG (CL3)	Chemistry practicals for the new GCSE PAG (CL3)	Chemistry practicals for the new GCSE PAG (CL3)
Web based resources to support chemistry teaching (CL1)	Energy (CL1)	Christmas Chemistry (CL4)
All about eyes (CL2)	All about eyes (CL2)	Energy (CL1)
iPads for science (CL5)	The Isaac project (CL5)	The Isaac project (CL5)
Christmas Chemistry (CL4)	iPads for science (CL3)	
Further sessions to be added		

We will be joined for tea by RSC STEM ambassadors based in the NW, providing an excellent opportunity for you to find a guest speaker to come to school or find out more about local industry links. There will also be a networking social with the STEM ambassadors immediately following the TeachMeet which you are very welcome to stay at.

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Session details

<p>Energy in the new physics GCSE: Brendan Ickringill (Bolton School Girls' Division and IoP) A session to support the teaching of energy in the new GCSE (and consequently KS3). Keywords - Core - science - physics - KS3 - GCSE - subject knowledge - curriculum change</p>
<p>Christmas Chemistry: <i>Kristy Turner (Bolton School Boys' Division and University of Manchester)</i> A practical session of Christmas themed chemistry experiments that can be done in school or at home including 'A christmas mix up' (analytical puzzle team challenge), Christmas dinner indicators, poinsettia indicator paper and electroplated Christmas decorations. Keywords - Core - enrichment - science - chemistry - KS3 - GCSE - outreach - engagement</p>
<p>Chemistry practicals for the new GCSE PAG: <i>Dave Paterson (OCR)</i> A practical session showcasing OCR's chemistry experiments which fit the PAG requirements and can be used with students following any exam board. Keywords - Core - science - chemistry - KS3 - GCSE - subject knowledge - curriculum change</p>
<p>All about eyes <i>Julie Hartley (Technician - Bolton School Boys' Division) and (Sara Morgan - Optometrist, University of Manchester)</i> A hands-on session all about eyes! Covering some biology including eye dissection together with optical physics and how glasses and contact lenses work. Keywords - core - enrichment - science - biology - chemistry - KS3 - GCSE - applied science - work related learning</p>
<p>Web based resources to support chemistry teaching (<i>Katayune Presland, Royal Society of Chemistry, Will Stockburn, University of Central Lancashire</i>) A session showcasing the various web based resources available to teachers from the RSC and on YouTube Keywords - core - enrichment - science - chemistry - KS3 - GCSE - resources</p>
<p>Isaac project: <i>Mark Ormerod (Bolton School Boys' Division)</i> A session showcasing the Isaac Physics project from the University of Cambridge and its practical use in the classroom. IsaacPhysics is a low cost book and associated MOOC which aims to improve mastery in pre-university physics and get students using problem solving approaches. IsaacChemistry is currently in development and is likely to have a similar look to physics so this session is also relevant to teachers of chemistry. http://www.isaacbooks.org/ https://isaacphysics.org/ Keywords - core - science - physics - chemistry - A-level - resources - web based learning</p>
<p>iPads for science (<i>Nic Ford, Apple Distinguished Educator, Bolton School Boys Division</i>) A session showcasing a variety of general and subject specific iPad and Android apps for use in science classrooms. Keywords: - resources - web based learning - science - core - engagement - enrichment</p>

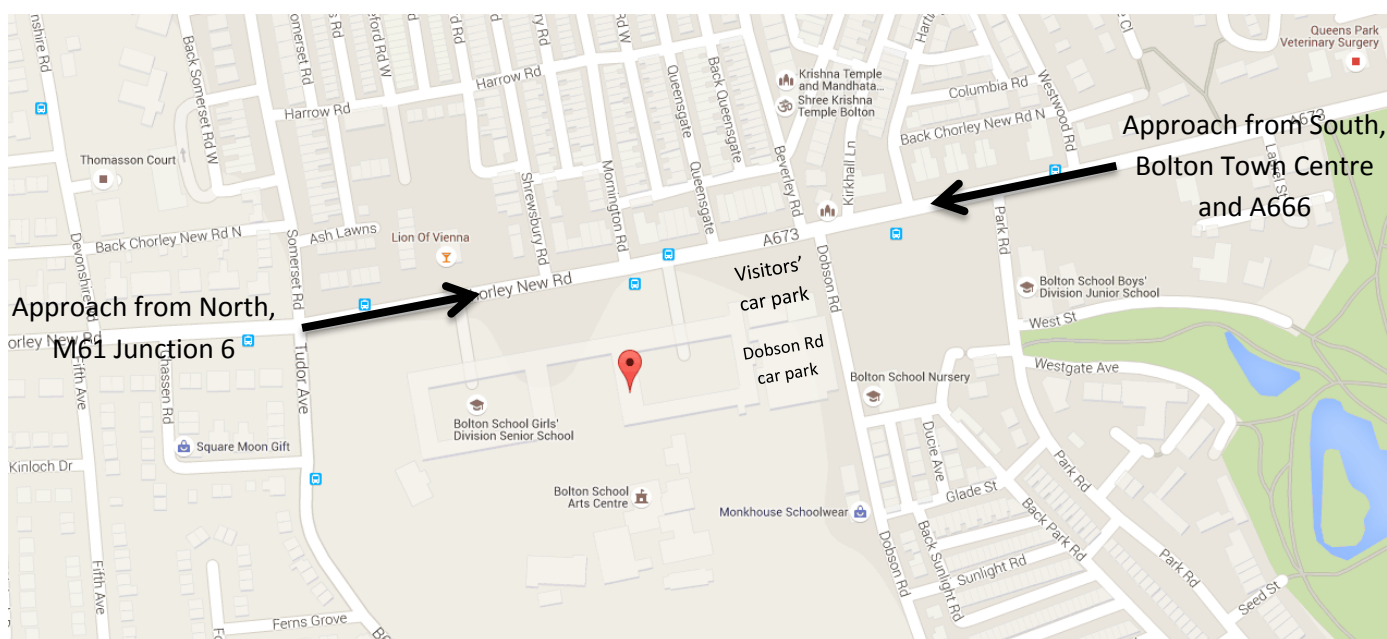
Further sessions tbc - if you would like to present then please get in touch KLT@boltonschool.org



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The venue



Directions

- By car

SatNav: The best postcode to use is for Dobson Rd, Bolton, BL1 4RL. Both the car parks marked on the map are accessed from Dobson Road. School ends at 16:00 so the school site is very busy between 15:50 and 16:20 and movements in and out of car parks are restricted by the sergeants.

- By train

There are regular train services to most of the NW via Bolton Station. Buses go from outside the station and it is a walkable distance for the energetic amongst you. A taxi from the station costs around £6.

- By taxi

Taxis are able to drop off on Dobson Road or at reception (under the centre arch).

- By bus

Regular 575 buses go past the school on Chorley New Road. Most buses are fully accessible to those with mobility difficulties.



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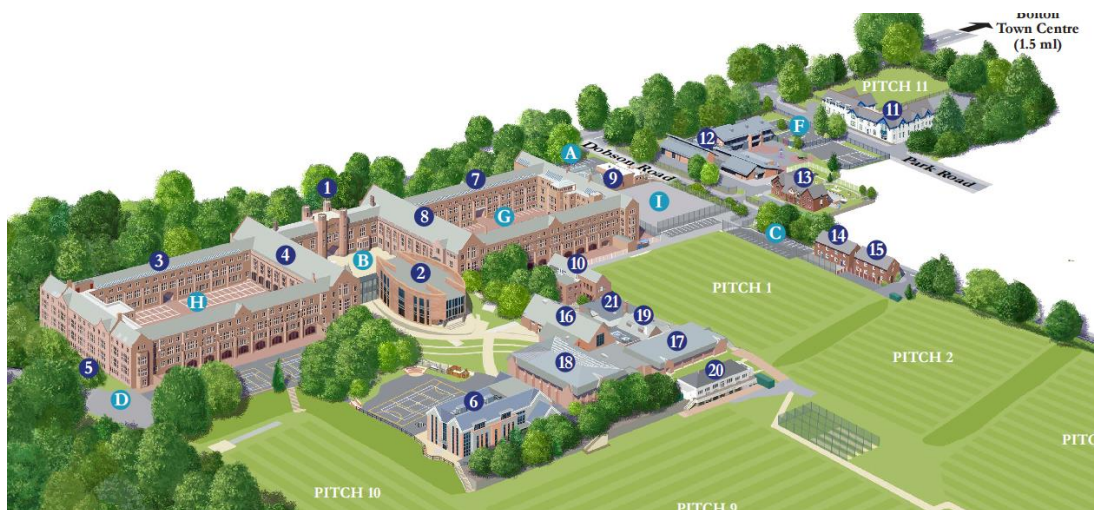
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Campus map



The conference will be held in two locations on the Bolton School Campus, The Arts Centre (building 16) and the Chemistry Block (10).

Conference details

The conference is intended to be an informal meeting place for teachers to connect and access teacher-led CPD. We will be joined by local STEM ambassadors for tea and session 3.

Who should attend?

Anyone with an interest in teaching science in KS3 and KS4.

Catering

We will be having a break for food part way through the meeting. To keep costs down this will be pizza/wedges and sundries. Please indicate any dietary requirements on the booking form.

Deposits

The conference is supported by the generosity of a small grant from the RSC Education Division: Greater Manchester Section to cover the catering costs and the Institute of Physics. To reduce wastage we are asking for **a £5 deposit** from each teacher and you will receive a goody bag of consumables to the value of >£5 when you attend the conference. We want to keep the cost as low as possible whilst also reducing wastage from non-attendance.



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BOOKING FORM

Please reserve places at the conference for the following teacher(s) from

School

Travelling from the area by car/public transport

(for car parking and car sharing planning)

Name	Email address

Enclosed is a deposit of

Please indicate any dietary requirements

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Exam board taught at GCSE

	Tick
I/we consent to our email address(es) being shared with other delegates of the conference.	
I/We require a receipt and would like it posting to	
I/We require a receipt and would be happy to pick it up on the day	

Please return by your form by email to KLT@boltonschool.org or by post to *Dr. K. Turner, Bolton School Boys' Division, Chorley New Road, Bolton, BL1 4PA*. Please post cheques (payable to Bolton School).