UPDATE May-Oct 2013

MSD Teaching Excellence Project Award

We have funding to buy 35 Windows tablets with keyboards to address a number of problems within MSD.

Photo by samsungtomorrow

Online assessment

1. Multiple sittings – 16 of 162 assessments annually require multiple sittings with attendant staffing, security and time implications. 35 extra machines would allow these to be taken in one sitting.
2. Smaller groups and resits anywhere – IT suite availability in exam periods is an increasing problem. Wireless tablets should allow assessments to be taken anywhere with an internet connection.
3. Students with permission to sit in college – are currently expected to sit on paper because of the logistical issues of ensuring properly configured college machines. However, these tablets should allow us to deliver a pre-configured device to Exam Schools, just as with a paper copy.
4. Issues with making online assessment work on a mobile device – we will investigate: security; wireless connectivity & power

Polling/Audience Response

This is already regularly used in Biochemistry, and about to be piloted in Experimental Psychology (EP) plus interest from Clinical School. Should be possible with WL Polls tool and students' own mobile devices but not currently easy enough, so Biochemistry and EP are using TurningPoint (bit.ly/tp-response) clickers. The three problems with using the WL Polls tool are:

1. User interface – participant and administrator
2. Connectivity – e.g. students' awareness of Eduroam
3. Availability of internet-capable device e.g. 5 or 6 of 150ish students in a recent induction session say they would not be able to regularly bring an internet enabled device with them to lectures.

This project will address the latter two.

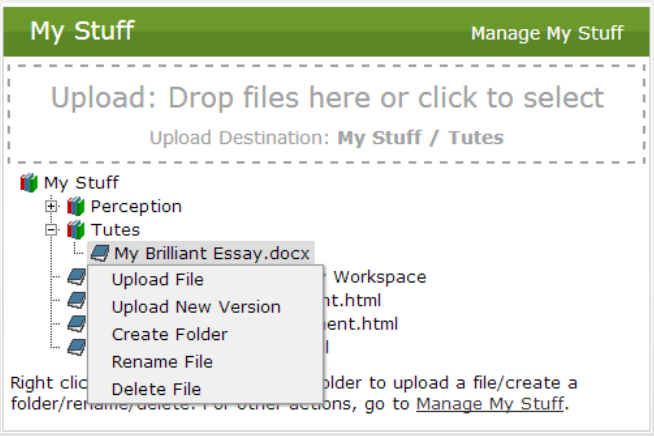
Virtual microscopy in histology classes

Lecturers/demonstrators will be able to show small groups of students, points of interest on virtual microscope slides, rather than having to share a real microscope or involve the whole class.

Objective Structured Clinical Examinations

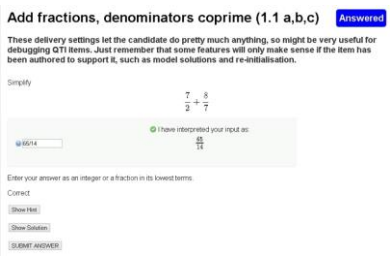
Mobile devices, using one of the many OSCE marking systems, could potentially improve the speed and accuracy of this process.

'My Stuff' on the WebLearn BMS Portal



New this term is a more user-friendly face for My Workspace Resources. Context-sensitive menus and drag and drop file upload (like Google Drive) will hopefully encourage students to make better use of this facility within WebLearn. bit.ly/wl-bms

QTI/Online maths questions



As part of this JISC funded Open Source project, piloted formative online maths test, in May, for pre-arrival Biochemistry and Biomedical Sciences students:

1. Answer with algebra
2. Understands units (1kg = 1000g)
3. Includes worked examples
4. Generates random questions around a theme

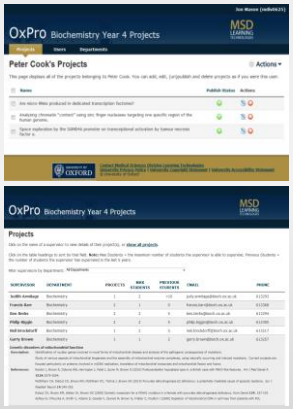
This time around (bit.ly/pre-course-maths), only an addendum to the downloadable pdf booklet. Around 1/3 accessed the online version: "Easy to use, easy to put in your answer, hints and worked solutions were very good"

Damion Young, Jon Mason and Pauline Woolley **email:** msdlt@medsci.ox.ac.uk **www:** http://emsd.medsci.ox.ac.uk

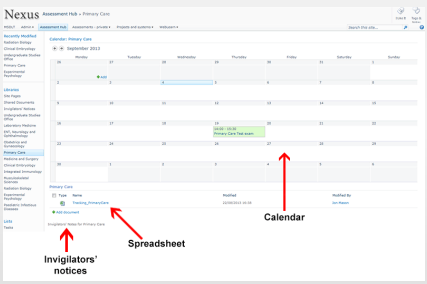
OxPro

A lightweight system for communicating project options to students and allowing them to choose a 'basket' of options (bit.ly/ox-pro). Piloted in Biochemistry but now also used by:

- Medicine
- MSc in Neuroscience
- Biomedical Sciences
- … and currently in discussions with Experimental Psychology



Streamlining assessment process with SharePoint

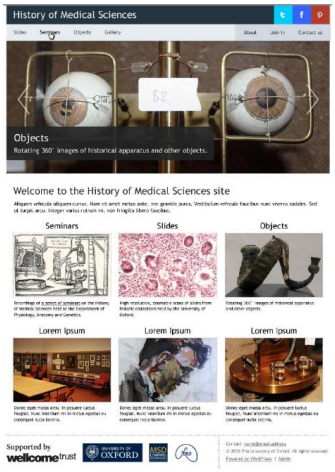


The ever-increasing volume of online assessment has prompted us to formalize the processes we use and to improve communication with both individual courses and Examination Schools. SharePoint and Outlook, along with some lightweight training (bit.ly/online-assess), have provided the perfect platform for this.

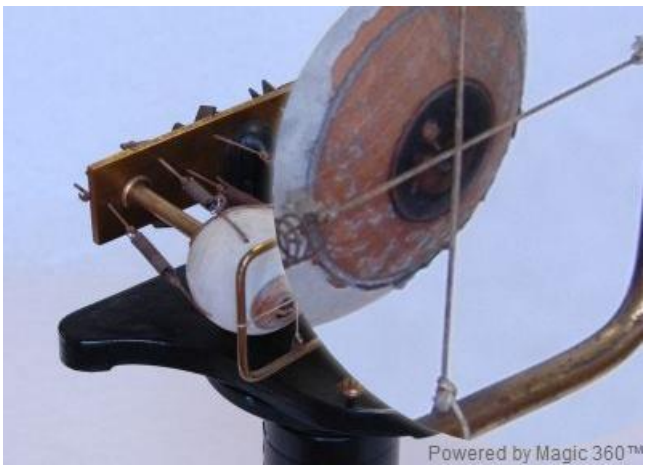
ePortfolio

Pilot of WordPress-driven clinical 'sign-off'/ePortfolio tool with the rotation in Primary Care - tool considered a success. There's still some work to do but we now have a mandate from the clinical medicine course to roll it out across the other Year 5 rotations.

history.medsci.ox.ac.uk

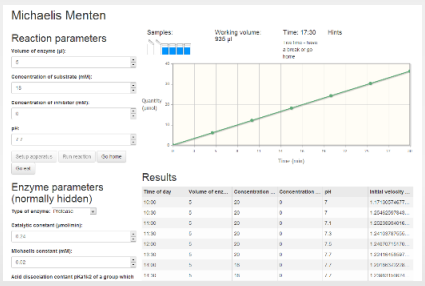


Two researchers and a summer student have progressed the project considerably. As well as a wealth of fascinating information around the slide collections, we now have 360º images of well over a hundred objects and specimens of historical and current teaching interest.



360º, zoomable image of model of eyes, each with 6 springs to represent extrinsic eye muscles

Simulation modelling



Begun work on converting legacy simulations, created as part of the '90s Teaching and Learning Technology Programme, as these will no longer run on modern hardware but are still in regular use. Beginning with EnzLab – an exploration of Michaelis-Menten enzyme kinetics (bit.ly/enzlab). Using AngularJS and Bootstrap.css to run entirely in the browser.