

## Resource List for E-learning

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Details of the Centre's activities on E-learning can be found on our website at [www.bioscience.heacademy.ac.uk/events/themes/elearn/](http://www.bioscience.heacademy.ac.uk/events/themes/elearn/)

The Centre has funded a number of e-learning projects, for details see [www.bioscience.heacademy.ac.uk/events/themes/elearn/projects.aspx](http://www.bioscience.heacademy.ac.uk/events/themes/elearn/projects.aspx)

Abt, G. and Barry, T. (2007) The Quantitative Effect of Students Using Podcasts in a First Year Undergraduate Exercise Physiology Module. Bioscience Education E-journal vol 10 available at [www.bioscience.heacademy.ac.uk/journal/vol10/beej-10-8.htm](http://www.bioscience.heacademy.ac.uk/journal/vol10/beej-10-8.htm)

Badge, J.L., Cann, A.J. and Scott, J. (2005) e-Learning versus e-Teaching: Seeing the Pedagogic Wood for the Technological Trees. Bioscience Education E-journal vol 5 available at [www.bioscience.heacademy.ac.uk/journal/vol5/beej-5-6.htm](http://www.bioscience.heacademy.ac.uk/journal/vol5/beej-5-6.htm)

Calvert, J., Jowett, T. and Cotterill, S. (2007) E-Portfolios in Bioscience. Centre for Bioscience Bulletin 20 (Spring 2007). [www.bioscience.heacademy.ac.uk/ftp/newsletters/bulletin20.pdf](http://www.bioscience.heacademy.ac.uk/ftp/newsletters/bulletin20.pdf)

Cann, A.J., Calvert, J.E., Masse, K.L. and Moffat, K.G. (2006) Assessed Online Discussion Groups in Biology Education. Bioscience Education E-journal, volume 8 available at [www.bioscience.heacademy.ac.uk/journal/vol8/beej-8-4.htm](http://www.bioscience.heacademy.ac.uk/journal/vol8/beej-8-4.htm)

Gibbons, NJ; Evans, C; Payne, A; Shah, K & Griffin, DK. (2004) Computer Simulations Improve University Instructional Laboratories, Cell Biology Education Vol.3, 263–269. [www.lifescied.org/cgi/reprint/3/4/263](http://www.lifescied.org/cgi/reprint/3/4/263)

Koenig, J. (2007) It's Not Rocket Science. Centre for Bioscience Bulletin 21 (Summer 2007). [www.bioscience.heacademy.ac.uk/ftp/newsletters/bulletin21.pdf](http://www.bioscience.heacademy.ac.uk/ftp/newsletters/bulletin21.pdf)

Mattey, M (2003). Report on the evaluation of interactive teaching in bioscience degree courses. [www.bioscience.heacademy.ac.uk/ftp/tdf/matteyreport.pdf](http://www.bioscience.heacademy.ac.uk/ftp/tdf/matteyreport.pdf)

Merry, S. and Orsmond, P. (2007) Feedback via MP3 Audio Files. Centre for Bioscience Bulletin 22 (Autumn 2007). [www.bioscience.heacademy.ac.uk/ftp/newsletters/bulletin22.pdf](http://www.bioscience.heacademy.ac.uk/ftp/newsletters/bulletin22.pdf)

Perkins, J., Preston, S. and Fantom, P. (2007) E-Learning: one piece of the puzzle. Centre for Bioscience Bulletin 20 (Spring 2007). [www.bioscience.heacademy.ac.uk/ftp/newsletters/bulletin20.pdf](http://www.bioscience.heacademy.ac.uk/ftp/newsletters/bulletin20.pdf)

Rolfe, V. (2007) The Wonderful World of Wikis. Centre for Bioscience Bulletin 21 (Summer 2007). [www.bioscience.heacademy.ac.uk/ftp/newsletters/bulletin21.pdf](http://www.bioscience.heacademy.ac.uk/ftp/newsletters/bulletin21.pdf)

Stefani, L. (2006) Effective Use of IT: Guidance on Practice in the Biosciences. Centre for Bioscience, Higher Education Academy. This book follows the series format with theory augmented with bioscience case studies. In the first three chapters Lorraine explores the use of technology in teaching and learning, curriculum design and assessment. The second section of the book features bioscience case studies which cover a wide range of topics and subject areas. Free copies are available from the Centre or download a copy from [www.bioscience.heacademy.ac.uk/resources/guides/elearn.aspx](http://www.bioscience.heacademy.ac.uk/resources/guides/elearn.aspx)

**Themed Centre for Bioscience Bulletin on e-learning**, Bulletin 19 (Autumn 2006) [www.bioscience.heacademy.ac.uk/resources/bulletin](http://www.bioscience.heacademy.ac.uk/resources/bulletin)

## Case studies of E-learning

The following case studies were compiled by the Centre for Bioscience as part of the Higher Education Academy's/JISC Distributed E-learning Programme.

- Aspects of pollution in Europe: An e-learning package, Georges Dussart, Canterbury Christ Church University [www.bioscience.heacademy.ac.uk/Resources/dussart.pdf](http://www.bioscience.heacademy.ac.uk/Resources/dussart.pdf)
- Biostatistics: e-learning strategies for improving student understanding, Glenn Baggott, Birkbeck, University of London (School of Biological and Chemical Sciences) [www.bioscience.heacademy.ac.uk/Resources/baggott.pdf](http://www.bioscience.heacademy.ac.uk/Resources/baggott.pdf)
- Development of an Anatomy resource for Biomedical Students, Jane Calvert, Newcastle University [www.bioscience.heacademy.ac.uk/Resources/calvert.pdf](http://www.bioscience.heacademy.ac.uk/Resources/calvert.pdf)
- Blended learning resources for a first year neuroscience/pharmacology module, Neil Morris, University of Leeds [www.bioscience.heacademy.ac.uk/Resources/morris.pdf](http://www.bioscience.heacademy.ac.uk/Resources/morris.pdf)

## External Projects and Organisations

ALT (the Association for Learning Technology) [www.alt.ac.uk/](http://www.alt.ac.uk/)

CeLLS (Collaborative e-Learning in the Life Sciences) [www.cellproject.org/](http://www.cellproject.org/)

JISC (Joint Information Systems Committee)

[www.jisc.ac.uk/whatwedo/themes/elearning.aspx](http://www.jisc.ac.uk/whatwedo/themes/elearning.aspx)

OLAAF (Online Assessment and Feedback) [www.bbk.ac.uk/olaaf/](http://www.bbk.ac.uk/olaaf/)

## Accessibility

TechDis provide advice and guidance on disability and technology [www.techdis.ac.uk](http://www.techdis.ac.uk)

Their Accessibility Essentials Series are extremely good and hard copies can be ordered from TechDis or downloaded from their website.

Accessibility Essentials 1: Making Electronic Documents More Readable.

[www.techdis.ac.uk/resources/sites/accessibilityessentials1/index.html](http://www.techdis.ac.uk/resources/sites/accessibilityessentials1/index.html)

Accessibility Essentials 2: Writing Accessible Electronic Documents with Microsoft® Word.

[www.techdis.ac.uk/resources/sites/accessibilityessentials2/index.html](http://www.techdis.ac.uk/resources/sites/accessibilityessentials2/index.html)

Accessibility Essentials 3: Creating Accessible Presentations.

[www.techdis.ac.uk/resources/sites/accessibilityessentials3/index.html](http://www.techdis.ac.uk/resources/sites/accessibilityessentials3/index.html)

Accessibility Essentials 4: Making the Most of PDFs.

[www.techdis.ac.uk/resources/sites/accessibilityessentials4/index.html](http://www.techdis.ac.uk/resources/sites/accessibilityessentials4/index.html)

## HEAT Projects

The HEAT Scheme from TechDis offers funding to investigate innovative learning approaches using technology to assist student learning. The scheme aims to raise awareness of the potential of assistive technologies to enhance the experiences of students and explore good or innovative practice that can be achieved with a small amount of technology provision. Six bioscience HEAT projects have been funded through the scheme. Details are available at

[www.bioscience.heacademy.ac.uk/resources/disability/heatprojects.aspx](http://www.bioscience.heacademy.ac.uk/resources/disability/heatprojects.aspx)

## [Reports from previous E-learning events](#)

Effective E-Learning: IT's about pedagogy as well as technology. Manchester Metropolitan University, Wednesday 13 December 2006

[www.bioscience.heacademy.ac.uk/events/mmu06.aspx](http://www.bioscience.heacademy.ac.uk/events/mmu06.aspx)

\*E-Learning: Developments in the Biosciences. Islington City Learning Centre, London, Tuesday 11 December 2007

[www.bioscience.heacademy.ac.uk/events/elearnlondondec07.aspx](http://www.bioscience.heacademy.ac.uk/events/elearnlondondec07.aspx)

The following resources were highlighted in the course of the December '07\* event

## [Links from Alan Cann's presentation](#)

Personal Learning Environments (a wiki you can contribute to)

[ples.wetpaint.com/](http://ples.wetpaint.com/)

Personal Learning Environments (used in Alan's workshop)

[www.microbiologybytes.com/tutorials/ple/](http://www.microbiologybytes.com/tutorials/ple/)

## [Personal response systems and learning](#) (highlighted by Jo Badge)

Steve Draper's pages (Glasgow)

[www.psy.gla.ac.uk/~steve/ilig/](http://www.psy.gla.ac.uk/~steve/ilig/)

Draper, S.W., Cargill, J., & Cutts, Q. (2002) "Electronically enhanced classroom interaction" Australian journal of educational technology vol.18 no.1 pp. 13-23

[www.psy.gla.ac.uk/~steve/ilig/handsets.html](http://www.psy.gla.ac.uk/~steve/ilig/handsets.html)

Hake, R. R. (1998). Interactive-engagement versus traditional methods: A six-thousand student survey of mechanics data for introductory physics courses. American Journal of Physics vol.66 pp. 64-74

JISC case study on use in engineering Jim Boyle at Strathclyde, includes short video

[www.elearning.ac.uk/innoprac/practitioner/strathclydevid.html](http://www.elearning.ac.uk/innoprac/practitioner/strathclydevid.html)

Poulis, J. Massen, C. Robens, E. & Gilbert, E. (1998) "Physics lecturing with audience paced feedback" American Journal of Physics vol.66 pp. 439-441

[www.bedu.com/Publications/PhysLectAPF.html](http://www.bedu.com/Publications/PhysLectAPF.html)

## [Links from other presentations](#)

Main page – Wikipedia, the free encyclopaedia

[en.wikipedia.org/wiki/Main\\_Page](http://en.wikipedia.org/wiki/Main_Page)

[science.uwe.ac.uk/medialibrary/sgomez/hp/](http://science.uwe.ac.uk/medialibrary/sgomez/hp/) (Stephen's podcasts)

Profile - [www.profile.ac.uk](http://www.profile.ac.uk) (one of Stephen Gomez's resources)

Audacity software - [audacity.sourceforge.net/](http://audacity.sourceforge.net/)

Glenn Baggott's documents: [193.61.20.125/cyber/bienvenue.html](http://193.61.20.125/cyber/bienvenue.html)

Engage – The interactive research resource for bioscience undergraduates

[www.engageinresearch.ac.uk/](http://www.engageinresearch.ac.uk/)