

UTILISING ENOTEBOOKS FOR TEACHING AND RESEARCH

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Abstract

Ensuring digital literacy to prepare graduates for employment in a digital world is at the heart of higher education teaching and policy development in institutions globally. Additionally with advancements in technology, academics and students alike are able to connect with and collaborate with people outside of once traditional geographic boundaries.

eNotebooks (formerly Electronic Lab Notebooks, or ELNs) provide a collaborative working tool suitable for both internal and external collaborators. eNotebooks can be used in any discipline and are a great option for storing and sharing working documents, procedures, observations, conclusions, lab notes, images and data files. As a teaching tool eNotebooks allow group learning, large scale data sharing and efficiencies in large class teaching and grading of student work.

There are many commercially available eNotebook systems and many institutions may already be embracing them or creating customized systems. As just one example, LabArchives® is a secure cloud based eNotebook tool that was designed for the storage, organisation, sharing and publishing of research data. LabArchives can be deployed in two versions: Professional Edition and Classroom Edition. The Professional Edition provides a workflow tool to manage data and to protect the intellectual property rights of the institution. The Classroom Edition is built on the same core platform as the Professional version, with specialized instructional features and is being used by higher education institutions globally, including Australia.

Objectives

To develop participant awareness of the value of eNotebooks for teaching and research.

To promote discussions among participants interested in utilising eNotebooks for teaching or research.

Workshop description

This will be a 1.5 hour workshop for 30 participants.

Activities include:

Discussion of current and emerging uses of eNotebooks in research and teaching at the participants institutions. Does your institution currently use an eNotebook system for teaching or research?

Showcase of the use of an eNotebook for teaching and research – using LabArchives.

Discussion of strategies for embedding eNotebooks in teaching and/or research.

Biography of workshop leaders



Dr. Tracey Kuit is a Senior Lecturer at the University of Wollongong's School of Biological Sciences, where she coordinates large undergraduate subjects. Tracey is passionate about teaching and utilising technology to enhance and support student learning. Tracey recently embedded eNotebooks, using LabArchives® Classroom Edition, in a second year undergraduate biochemistry subject with 430 students.



Mr Paul Cremin is the market manager for Australia and New Zealand for LabArchives, LLC. He is an experienced specialist literature researcher, trainer and reference information specialist. Paul has had 20 years of high level research experience, across fields such as competitive intelligence, company research, medical literature searching and pharmacovigilance, market research, drug safety literature searching, intellectual property and finance.



Dr Alexandra Yeung completed her PhD in Chemistry Education and her Masters of Education (Educational Psychology) at the University of Sydney. Alexandra has been Director of the Advancing Science and Engineering through Laboratory Learning (ASELL) Project and the Manager of the Institute for Innovation in Science and Mathematics Education (IISME) at the University of Sydney. Currently she is a lecturer in the Department of Chemistry at Curtin University and editor of the International Journal of Innovation in Science and Mathematics Education (IJISME). She has recently embedded eNotebooks in a first year undergraduate chemistry unit.

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