

Bristol ChemLabS

Centre for Excellence in Teaching and Learning

Developing the Next Generation of Research Scientists April 7^{th} and 8^{th} 2008

Professor Nick Norman & Dr David Smith







To raise standards in the teaching and learning of practical chemistry

To engage with, and enthuse, students of all ages







74 HEFCE-funded Centres for Excellence in Teaching and Learning (CETLs)







~£5m from HEFCE ~£14m from the University of Bristol













Facilities

Development of state-of-the-art professional-standard teaching laboratories equipped with research-grade instrumentation

Innovation

Development of e-learning and assessment, as well as more conventional teaching methods to improve student experience

Outreach

A wide-ranging programme of outreach and public engagement activities for Bristol, the South West region and further afield





KFacilities













An emphasis on skills

An integrated laboratory course designed from first principles

Changing the way students work

Ensuring understanding through supported self study

Redressing the balance and method of assessment

Encouraging excellence as well as endeavour













KFacilities













































Dynamic Laboratory Manual

An interactive on-line web-based e-learning resource to help students prepare more thoroughly for their time in the laboratory



KInnovation



A greater emphasis on in-laboratory assessment, enhancing effective feedback and promoting efficiency Formative and summative self-assessments

Assessment

A combination of marks for on-line work and actual achievement in the laboratory









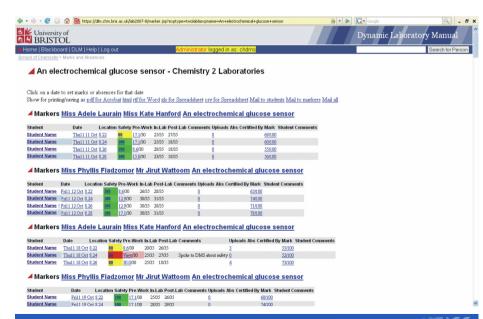
Dynamic Laboratory Manual

A library of video clips of techniques
Simulations
Virtual instruments
Instrument software for familiarisation and analysis
Interactive background material, including support for maths

Formative and summative tests on material Pre-laboratory safety tests

Interface with a marks and absences system







WOutreach



















ESustainability





Support from stakeholders, commercial sponsors and alumni





A Centre *for* Excellence not just a Centre *of* Excellence







