



Science Education Enhancement and Development

# SEED

Working Paper Series

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## **An Annotated Bibliography of Journals on Teaching and Learning in Higher Education**

*Harold Silver, December 1997*

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The SEED Programme, Faculty of Science, University of Plymouth.  
Supported by the Higher Education Funding Council for England,  
through the Fund for the Development of Teaching and Learning.

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## AN INTRODUCTION TO SEED

The programme for Science Education Enhancement and Development ('SEED') is based in the Faculty of Science at the University of Plymouth. It is resourced principally by the Higher Education Funding Council for England through its Fund for the Development of Teaching and Learning. Additional support has been received from the University of Plymouth's Academic Services. SEED builds on the success of the Science Faculty in the national Teaching Quality Assessment system where Plymouth achieved 'excellence' in Environmental Science, Geography, Geology and Oceanography.

SEED's overall aim is to develop, document and disseminate good practice in Science teaching and learning. The programme consists of a series of projects in areas such as lab-work, field-work, graduate teaching assistants and computer-aided learning, which are itemised inside the back cover. Most are based in the Science Faculty but some are being taken forward by staff in the University's School of Computing and in Educational Development Services (EDS). All the projects are linked to dissemination partners in other institutions who act as external advisors, ensure that SEED's outputs are capable of being used in other institutions and help to disseminate and embed SEED's end-products.

Anyone wanting further details on the SEED programme is welcome to contact Brian Chalkley or Andy Elmes at the address below. Contact details for the individual project leaders are available inside the back cover.

### The SEED Programme

Faculty of Science  
University of Plymouth  
Drake Circus  
Plymouth PL4 8AA  
Tel: 01752 233530 or 01752 233053  
Fax: 01752 233534 or 01752 233054

Programme Manager: Brian Chalkley  
e-mail: [bchalkley@plymouth.ac.uk](mailto:bchalkley@plymouth.ac.uk)

Programme Officer: Andrew Elmes  
e-mail: [aelmes@plymouth.ac.uk](mailto:aelmes@plymouth.ac.uk)  
<http://www.science.plym.ac.uk/departments/seed/>



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## Context And Purpose

There is both within the UK and more widely, a growing interest in the practice of teaching and learning in higher education. Although the detailed circumstances vary from country to country, there are a number of general trends and developments which help to explain this new concern for the quality of degree-level courses and the student learning experience. One is the desire of governments to ensure value for money for their increased investment in higher education. Another is the realisation that many of the teaching, learning and assessment methods which worked adequately in the past may no longer be practicable given the recent major expansion in student numbers and class sizes. There has also been a recognition of the importance both of using the new communication technologies in teaching and most especially of identifying and disseminating good practice across the system. In the UK, for example, in 1995 the Higher Education Funding Council for England (HEFCE) established a multi-million pound Fund for the Development of Teaching and Learning (FDTL) which aims to promote and disseminate good practice. Still more recently, in July 1997, the National Committee of Inquiry into Higher Education produced the Dearing Report, one of whose main recommendations was the establishment of an Institute for Learning and Teaching in Higher Education. A major role for the Institute will be to promote research into the effectiveness of different kinds of teaching and learning strategies.

Against this background, it is clear that there is likely to be an increasing amount of work undertaken on the theory and practice of higher education. This in turn will mean that rather more academics will be drawn into researching and writing about issues such as curriculum innovation, teaching and assessment methods, student performance, staff development and the potential of computer-aided learning. At present, whereas

most academics are experienced and well-practised in publishing articles on their mainstream, discipline-based research, relatively few have written on educational matters. There is a need therefore to advise and support staff who are contemplating entry to this somewhat unfamiliar territory. One element of this is to alert academics to the kinds of journals which publish articles in these fields.

The annotated bibliography which is presented in this Working Paper has been prepared explicitly for this purpose. It has been produced in the first instance to meet the needs of an FDTL programme on 'Science Education Enhancement and Development'(SEED) which is based at the University of Plymouth and which involves about thirty of the University's staff drawn mainly from Science, with further support from staff in Educational Development Services and the School of Computing. Although Plymouth is unquestionably a centre of excellence in Science teaching, few of its Science staff have published in education journals. This bibliography was intended initially to meet their needs. However, it may also be of interest to a much wider audience, including staff at other institutions working on FDTL projects and indeed all those academics who might welcome a brief introduction to the world of journals which focus on the practice of higher education.

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## Introductory Notes

Although this annotated bibliography provides details of over twenty higher education periodicals, it does not claim to be comprehensive.

Discipline-specific journals are not included, because a list (not annotated) of 'Periodicals on the Teaching of Specific Discipline/Subjects' has already been produced by Alan Jenkins at Oxford Brookes University. Moreover, the bibliography below deliberately focuses principally on journals which deal with teaching and learning issues rather than questions of management or quality assurance (although one or two indicative suggestions in these areas are included). A broader list (again not annotated) of educational development journals, plus the Jenkins-inspired list of discipline-based journals is available on a Web site run by Graham Alsop at London Guildhall University. The address is as follows: <http://www.Lgu.ac.uk/deliberations/>.

There are also various regular abstracts of higher education journals. The most comprehensive is published three times a year by the Society for Research into Higher Education and is called 'Research into Higher Education Abstracts'. In addition, a survey of the contents of recent higher education journals is contained in the 'Higher Education Digest' which is published three times a year by the Open University's Quality Support Centre.

It should also be borne in mind that although the notes below provide a brief introduction to the journals itemised, potential contributors should, of course, see a recent copy of the journal to obtain guidance on matters such as paper length, layout, and referencing systems. The 'notes for contributors' set out in each journal will provide this more detailed information. It would also be advisable for authors to contact the editor and discuss with them whether the proposed article is in fact appropriate to the journal under consideration. Most of the telephone, fax and e-mail addresses listed below have been obtained from the 35th edition of Ulrich's International Periodical Directory (1997), published by R.R. Bowker.

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## List Of Journals

### Active Learning

This is the journal of the Computers in Teaching Initiative (CTI), whose mission is 'to maintain and enhance the quality of learning and increase the effectiveness of teaching through the application of appropriate learning technologies' (CTI is funded by the three UK Funding Councils and the Department of Education for Northern Ireland). Its Home Page is at <http://www.cti.ac.uk>. Issues tend to be thematic. It is available FREE to anyone working in higher education. A recent issue contained articles on: 'A friendly introduction via the Web to fluid dynamics', 'A hypermedia learning resource for part of an honours entomology course' and 'Implementing CAL: success stories from chemistry'.

Publisher: Computers in Teaching Initiative (CTI)

Tel: 01865-273273

Fax: 01865-273275

E-mail: [CTISS@oucs.ox.ac.uk](mailto:CTISS@oucs.ox.ac.uk)

Internet: <http://info.ox.ac.uk/cti/>

Editors: Jonathan Darby and Joyce Martin

ISSN: 1357-1125

### ALT-J (Association for Learning Technology Journal)

This is 'an international journal devoted to research and good practice in the use of learning technologies within higher education', published by the University of Wales Press on behalf of ALT, which is sponsored by British Telecom and supported by Nimbus Information Systems. Articles are 'selected for their quality and significance in the field of learning technology within higher education'. Recent articles include: 'Learning style and learning strategies in a multimedia environment', 'The implementation of a multimedia learning environment for graduate civil engineers' and 'Enhancing laboratory activity with computer-based tutorials'. Further information can be found at <http://www.csv.warwick.ac.uk/alt-E/alt-J>

Publisher: University of Wales Press

Tel: 01222-231919

Fax: 01222-230908

E-mail: [press@wales.ac.uk](mailto:press@wales.ac.uk)

Internet: <http://www.swan.ac.uk/uwp/home.htm>

Editor: Gabriel Jacobs

ISSN: 0968-7769

### Assessment in Education: principles, policy and practice

Published by Carfax, it provides a focus for increasingly scholarly output in the field of assessment, much of which is currently scattered across a number of other specialist journals. It is concerned with educational assessment and student achievement at all levels of education, including higher and professional education. It was first published 1994.

Publisher: Carfax Publishing Co.

Tel: 01235-401000

Fax: 01235-401550

E-mail: [enquiries@carfax.co.uk](mailto:enquiries@carfax.co.uk)

Internet: <http://www.carfax.co.uk/aie-ad.htm>

Editor: Patricia Broadfoot

ISSN: 0969-594X

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## Assessment and Evaluation in Higher Education

This is a long established journal, which publishes papers and reports on all aspects of assessment and evaluation. Its purpose is 'to help advance understanding of assessment and evaluation practices and processes, particularly in the contribution they make to student learning, and to course, staff and institutional development'. A recent issue contains articles on 'Educational histories and academic potential: can tests deliver?' and 'The Power Test: its impact on student learning in a materials science course for engineering students'.

Publisher: Carfax Publishing Co.

Tel: 01235-401000

Fax: 01235-401550

E-mail: [enquiries@carfax.co.uk](mailto:enquiries@carfax.co.uk)

Internet: <http://www.carfax.co.uk/aeh-ad.htm>

Editor: William A.H. Scott

ISSN: 0260-2938

## Higher Education

Published by Kulwer Academic Publishers in the Netherlands, 'Higher Education' has a markedly international profile, and is concerned with higher education and educational planning. Its concern with teaching and learning has a strong research focus, and some issues are theme-based. A recent issue has articles on 'Improving learning skills: a self-help group approach' and 'Assessment preferences and their relationship to learning strategies and orientations'.

Publisher: Kluwer Academic Publisher

Tel: 0031-78-6392392

Fax: 0031-78-6392254

E-mail: [services@wkap.nl](mailto:services@wkap.nl)

Internet: <http://www.wkap.nl>

Editor: Noel Entwistle

ISSN: 0018-1560

## Higher Education in Europe

Published by UNESCO's European Centre for Higher Education, it 'deals with major issues and trends in contemporary higher education and presents information on current developments and events in this field'. It is a predominantly thematic journal, and it would be necessary to find out the themes for forthcoming issues (recent issues, for example, have covered the impact of Western assistance to higher education in Central and Eastern Europe, and the recognition of academic qualifications).

Publisher: UNESCO European Centre for Higher Education

Tel: 00401-1-613-0839

Fax: 00401-1-641-5025

E-mail: [cepes@cepes.ro](mailto:cepes@cepes.ro)

Internet:

Editor: Leland C. Barrows

ISSN: 0379-7724

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## Higher Education Research and Development

Published by Carfax in Australia for the Higher Education Research and Development Society of Australasia, this journal combines traditional hard copy publication and expert reviewing with electronic publication of extended abstracts, which are open to peer comment. Details, including contents pages, are on Carfax Home Page at: <http://www.carfax.co.uk/her-ad.htm>. It seeks to improve practice through reporting research and evaluations and promoting reflective scholarly articles on practice, policy and theory. It is addressed 'to university and college faculty from all disciplines and to higher education administrators. Contributions come from around the globe and the topics addressed are of world wide concern'. A recent issue contained articles on 'Experience as the base for learning' and 'Generic skills in the context of higher education'.

Publisher: Carfax Publishing Co.

Tel:01235-401000

Fax: 01235-401550

E-mail: [enquiries@carfax.co.uk](mailto:enquiries@carfax.co.uk)

Internet: <http://www.carfax.co.uk/her-ad.htm>

Editors: Elaine Martin and Peter Ling

ISSN: 0729-4360

## Innovation & Learning in Education

This journal is sub-titled 'The international journal for the reflective practitioner'. It is published by MCB University Press, which advertises a range of Internet services related to the journal, on <http://www.mcb.co.uk>. These include details of recent and forthcoming content, as well as details of other journals published by the Press. First produced in 1995, it has a long list of Editorial Advisers prominent in the field. It describes itself as 'committed to a critical examination of teaching and learning, and related issues in post-compulsory education: as such it seeks to bridge the gap between theory and practice'. A recent issue contains articles on 'How tertiary-level teaching is currently changing and how institutions can help their staff to cope', 'The implementation of peer

performance', and 'Student feedback: a shaky foundation for quality assurance'.

Publisher: MCB University Press

Tel: 01274-777700

Fax: 01274-785200

E-mail: [akaminska@mcb.co.uk](mailto:akaminska@mcb.co.uk)

Internet: <http://www.mcb.co.uk>

Editors: Gerald McElwee and George Holmes

ISSN:1356-3297

## Innovations in Education and Training International (formerly Educational and Training Technology International)

Published by Kogan Page, this journal welcomes contributions for consideration 'on any aspects of education and training likely to be of interest to readers. The main criterion of acceptance is that the material should make a contribution to knowledge in the field. The aim is to publish clear and concise papers covering original work of a research or developmental nature; surveys of current or recent work; proposed new methods or ideas which are well elaborated and argued'. A recent issue contained articles on 'The effective management and evaluation of flexible learning innovations in higher education', 'A flexible learning approach to foundation maths' and 'Re-thinking video conferencing'.

Publisher: Kogan Page Ltd.

Tel:0171-278-0433

Fax: 0171-837-6348

E-mail: [kpinfo@kogan-page.co.uk](mailto:kpinfo@kogan-page.co.uk)

Internet:

Editors: Gina Wisker and Philip Barker

ISSN: 1355-8005

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## **New Academic**

Published by the Staff and Educational Development Association (SEDA), the New Academic welcomes 'all material which might be of interest to teachers in higher education: the purpose of New Academic is to promote good practice in teaching and better understanding of the processes involved in learning in all areas of higher education'. It has a very diverse content, covering all aspects of the academic experience of higher education, including class organisation, assessment, skills and good practice of various kinds. Articles tend to be short.

Publisher: Staff and Educational Development Association

Tel: 0121-440-5021

Fax: 0121-440-5022

E-mail: [office@seda.demon.co.uk](mailto:office@seda.demon.co.uk)

Internet: <http://www.seda.demon.co.uk>

Editor: Elizabeth Mapstone

ISSN: 0964-6353

## **New Era in Education**

This is the journal of the New Education Fellowship, which has an international 'progressive education' membership and readership. It has recently sought to increase contributions from the 'new' universities. It focuses on learners and learning in classrooms, its main interest being in schools, but this does not exclude a higher education focus.

Publisher: World Education Fellowship

Tel: 01707-285677

Fax: 01707-285616

E-mail:

Internet:

Editor: Sneh Shah

ISSN: 0957-0942

## **Studies in Higher Education**

Published by SRHE, 'the journal welcomes contributions on most aspects of higher education. The Editors especially wish to encourage two kinds of paper: (a) those which illuminate teaching and learning by bringing to bear particular disciplinary perspectives ... (b) those in which teachers in higher education engage in systematic reflection on their own practices'. Papers should be able to 'communicate to non-specialists'. Recent articles have included 'Fostering self-directed learning in the university setting', 'The design of a study environment for acquiring academic and professional competence' and 'Assessing the effectiveness of Supplemental Instruction'. There is a regular 'Research Notes' section.

Publisher: Carfax Publishing Co.

Tel: 01235-401000

Fax: 01235-401550

E-mail: [enquiries@carfax.co.uk](mailto:enquiries@carfax.co.uk)

Internet: <http://www.carfax.co.uk/she-ad.htm>

Editor: Mantz Yorke

ISSN: 0307-5079

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## **Teachers and Teaching: theory and practice**

This is the journal of the International Study Association on Teacher Thinking, published by Carfax. It is international in focus and aims 'to provide an international focal point for the publication of research on teachers and teaching, in particular on teacher thinking'. Although its higher education interest is primarily in teacher education, articles on higher education teaching would presumably be considered. It was first published in 1995.

Publisher: Carfax Publishing Co.

Tel: 01235-401000

Fax: 01235-401550

E-mail: [enquiries@carfax.co.uk](mailto:enquiries@carfax.co.uk)

Internet:<http://www.carfax.co.uk/tat-ad.htm>

Editor: Christopher Day

ISSN:1354-0602

## **Teaching in Higher Education**

This was first published in 1996 by Carfax and addresses the role of teaching, learning and the curriculum in higher education. It critically examines the values underpinning teaching, introduces perspectives drawn from different cultures, considers how teaching and research can be brought into a closer relationship and explores how teaching in higher education can itself become a field of research. The journal seeks to avoid a narrowly technical view of teaching and learning methods. It is explicitly interdisciplinary and cross-cultural in approach.

Publisher: Carfax Publishing Co.

Tel: 01235-401000

Fax: 01235-401550

E-mail: [enquiries@carfax.co.uk](mailto:enquiries@carfax.co.uk)

Internet:<http://www.carfax.co.uk/the-ad.htm>

Editor: Len Barton

ISSN:1356-2517

## **Some Examples Of Journals Not Directly Concerned With Teaching And Learning**

### **Higher Education Policy**

Published by Pergamon, Elsevier, this journal focuses on policy trends internationally.

Publisher: Elsevier Science Ltd., Pergamon

Tel: 01865-843000

Fax: 01865-843010

E-mail: [authors@elsevier.co.uk](mailto:authors@elsevier.co.uk)

Internet:<http://www.elsevier.nl/>

Editor: Guy Neave

ISSN: 0952-8733

### **Higher Education Quarterly**

This journal is concerned primarily with policy questions (funding, modularization, research, quality, IT policy, franchising...). Recent issues have focused on regional trends in the UK, quality assessment and lifelong learning.

Publisher: Blackwell Publishers Ltd.

Tel: 01865-791100

Fax: 01865-791347

E-mail: [jninfo@blackwellpublishers.co.uk](mailto:jninfo@blackwellpublishers.co.uk)

Internet: <http://www.blackwellpublishers.co.uk>

Editor: Gareth Williams

ISSN: 0951-5224

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## Higher Education Review

Published by Tyrrell Burgess Associates, this is a long established journal which covers most aspects of higher education, but with a strong policy emphasis.

Publisher: Tyrrell Burgess Associates Ltd.

Tel: 0181-656-1770

Fax: 0181-849-3678

E-mail: john18@uel.ac.uk

Internet:

Editor: John Pratt

ISSN: 0Q18-1609

## International Journal of Institutional Management in Higher Education

This is an OECD publication, which covers the field of institutional management 'through articles, reports on research projects and book reviews'.

Publisher: OECD

Tel: 0033-1-4910-4211

Fax: 0033-1-4524-1950

E-mail: washington.contact@oecd.org

Internet:<http://www.oecdwash.org/PUBS/PRINPUBS/period.htm>

ISSN:1013-851X

## Quality Assurance in Education

Published by MCB University Press, Quality Assurance in Education is mainly concerned with higher education. It covers topics such as peer observation of teaching performance, audit and self-assessment as a basis for evaluating teaching quality.

Publisher: MCB University Press

Tel: 01274-777700

Fax: 01274-785200

E-mail: akaminska@mcb.co.uk

Internet:<http://www.mcb.co.uk/>

Editors: Gerald McElwee and George Holmes

ISSN: 0968 - 4883

## Reflections on Higher Education

Published by the Higher Education Foundation, this journal 'offers a forum where the aims, organisation, structures, content and values of Higher Education can be probed at a fundamental level'. Recent articles have included reflective commentaries on higher education developments of various kinds, curriculum issues and the organisation of the new universities.

Publisher: Higher Education Foundation

Tel: 01865-247644

Fax: 01865-251847

E-mail:

Internet:

Editor: Robert Ward

ISSN: 0954-2396

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## **Tertiary Education and Management**

Published by Jessica Kingsley, this is the Journal of EAIR, a European society for institutional research, concerned, for example, with issues of leadership, the management of quality, department size and resources and accountability.

Publisher: Jessica Kingsley

Tel: 01224-272-094

Fax: 01224-273717

E-mail: [unisec@admin.aberdeen.ac.uk](mailto:unisec@admin.aberdeen.ac.uk)

Internet:

Editor: Roddy Begg

ISSN:

Some other journals worth investigating include:

## **British Educational Research Journal Capability**

(Journal of Higher Education for Capability)

Publisher: Carfax Publishing Co.

Tel: 01235-401000

Fax: 01235-401550

E-mail: [enquiries@carfax.co.uk](mailto:enquiries@carfax.co.uk)

Internet: <http://www.carfax.co.uk/ber-ad.htm>

Editor: David Hustler

ISSN: 0141-1926

## **Computers and Education**

Publisher: Elsevier Science Ltd., Pergamon

Tel: 01865-843000

Fax: 01865-843010

E-mail: [authors@elsevier.co.uk](mailto:authors@elsevier.co.uk)

Internet: <http://www.elsevier.nl/>

Editors: Rachel Heller and Michael R. Kibby

ISSN: 0360-1315

## **Journal of Further and Higher Education**

Publisher: Carfax Publishing Co.

Tel: 01235-401000

Fax: 01235-401550

E-mail: [enquiries@carfax.co.uk](mailto:enquiries@carfax.co.uk)

Internet: <http://www.carfax.co.uk/jfh-ad.htm>

Editor: Jenifer Rowley

ISSN: 0309-877X

## **Oxford Review of Education**

Publisher: Carfax Publishing Co.

Tel: 01235-401000

Fax: 01235-401550

E-mail: [enquiries@carfax.co.uk](mailto:enquiries@carfax.co.uk)

Internet: <http://www.carfax.co.uk/ore-ad.htm>

Editors: David Phillips and John Wilson

ISSN: 0305-4985

## **Research in Post-Compulsory Education**

Publisher: Triangle Journals Ltd.

Tel: 01491-838013

Fax: 0141-834968

E-mail: [journals@triangle.co.uk](mailto:journals@triangle.co.uk)

Internet: <http://www.triangle.co.uk/rpe-o.htm>

Editors: Neil Moreland and Geoffrey Elliot

ISSN: 1359-6748

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## **Plymouth's Bibliographic Data Bases**

As a post-script to this Working Paper, readers may be interested to know that as part of the University of Plymouth SEED programme, a data base of journal articles focused mainly on Science teaching and learning has been prepared by Nigel May and Andy Elmes. The data base was established in the Autumn of 1997 and as it grows and matures it will provide an increasingly useful source of articles for SEED participants and others involved in Science teaching and learning within higher education. The WEB site address for this data base is:

<http://sh.plym.ac.uk/teachinglearning/bookends/>.

Additionally, the Communications and Learning Technology Group (CoLT), again from the University of Plymouth, also have a web-based publication database as an aid for their members to identify journals best suited for the publication of their research work. Much of this focusses on innovations in teaching and learning that involve technology; for example, putting resource-based learning materials on the Web and on CD-ROM. The database is not for public use and is password protected; however, further information concerning access can be obtained from Mark Stone ([m2stone@plymouth.ac.uk](mailto:m2stone@plymouth.ac.uk)) or Dr. Neil Witt ([nwitt@plymouth.ac.uk](mailto:nwitt@plymouth.ac.uk)). The address is <http://sh.plym.ac.uk/pill/projinfo/colt/pubfind.html>.

## **Disclaimer**

The author of this Working Paper has obviously taken due care in assembling the contents; however, no guarantee can be given that the information is complete or up to date.

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## THE SEED PROJECTS

**Project 1:** *A web based bibliographic database on Science teaching and learning, designed to support the information requirements of the SEED Projects.*

Nigel May, Science Faculty Team Co-ordinator,  
Tel: 01752 - 232318, E-mail: nmay@plymouth.ac.uk.

**Project 2:** *An investigation of the potential development of Curriculum Support Teams.*

Nigel May, Science Faculty Team Co-ordinator,  
Tel: 01752 - 232318, E-mail: nmay@plymouth.ac.uk.

**Project 3a:** *A handbook on field teaching in the Sciences.*

Colin Williams, Geological Sciences,  
Tel: 01752 - 233103, E-mail: c1williams@plymouth.ac.uk.

**Project 3b:** *Field discovery days.*

Colin Williams et al, Geological Sciences,  
Tel: 01752 - 233103, E-mail: c1williams@plymouth.ac.uk.

**Project 4:** *Fieldwork issues and developments.*

Les Ternan, Geographical Sciences,  
Tel: 01752 - 233060, E-mail: jternan@plymouth.ac.uk  
and Andy Elmes, SEED Programme,  
Tel: 01752 - 233532, E-mail: aelmes@plymouth.ac.uk.

**Project 5:** *A handbook on laboratory teaching.*

Les Jervis, Biological Sciences,  
Tel: 01752 - 232929, E-mail: ljervis@plymouth.ac.uk.

**Project 6:** *Peer assisted learning strategies (Supplemental Instruction) (P.A.L.S (S.I.)).*

Stuart Johnston, Educational Development Services,  
Tel: 01752 - 233317.

**Project 7:** *Development of a framework for the training and management of graduate teaching assistants.*

Rhona Sharpe, Educational Development Services,  
Tel: 01752 - 232346, E-mail: rsharpe@plymouth.ac.uk.

**Project 8:** *Development of a computer-aided learning package for environmental organic chemistry.*

Steve Rowland, Environmental Sciences,  
Tel: 01752 - 233013, E-mail: srowland@plymouth.ac.uk.

**Project 9:** *Environmental issues in the Mediterranean: a case study of the Maltese Islands.*

John Stainfield, Geographical Sciences,  
Tel: 01752 - 233069 - E-mail: jstainfield@plymouth.ac.uk.

**Project 10:** *Automated assessment in science: a review of good practice.*

Dan Charman, Geographical Sciences,  
Tel: 01752 - 233058, E-mail: dcharman@plymouth.ac.uk  
and Andy Elmes, SEED Programme,  
Tel: 01752 - 233532, E-mail: aelmes@plymouth.ac.uk.

**Project 11:** *CAL and basic Science.*

Neil Witt, Institute of Marine Studies,  
Tel: 01752 - 232417, E-mail: nwitt@plymouth.ac.uk.

**Project 12:** *A handbook on employer-links in Science. Stuart Lane, Biological Sciences, Tel: 01752 - 232908,*

E-mail: slane@plymouth.ac.uk and Mandy Burns,  
Learning and Research Support Services,  
Tel: 01752 - 232255, E-mail: mburns@plymouth.ac.uk.

**Project 13:** *Using multimedia for providing feedback to students undertaking concurrent project-based practicals.*

Graham Bradley, Biological Sciences,  
Tel: 01752 232934, E-mail: gbradley@plymouth.ac.uk and  
David Gaudie, Biological Sciences,  
Tel: 01752 - 232945, E-mail: dgaudie@plymouth.ac.uk.

**Project 14:** *An environmental data base for projects in environmental impact assessment (EIA) and conservation.*

Andrew Williams, Geographical Sciences,  
Tel: 01752 - 233059, E-mail: awilliams@plymouth.ac.uk.

**Project 15:** *Webkit - a toolkit to produce interactive web pages in support of CAL.*

Kevin Rowley, School of Computing,  
Tel: 01752 - 232621, E-mail: krowley@plymouth.ac.uk.

**Project 16:** *Qualifications update in applied Science for industry.*

Mike Lister, Cornwall College,  
Tel: 01209 - 712911, E-mail: enquiries@corncoll.ac.uk.

**Project 17:** *Baseline assessment of competencies and skills for Science and Computing.*

Dave Croot, Geographical Sciences,  
Tel: 01752 - 233070, E-mail: dcroot@plymouth.ac.uk and  
Stanley Oldfield, School of Computing,  
Tel: 01752 - 232552, E-mail: soldfield@plymouth.ac.uk.



## The SEED Programme

Faculty of Science  
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Drake Circus  
Plymouth PL4 8AA

Tel: 01752 233530  
Fax: 01752 233534

Programme Manager: Brian Chalkley  
e-mail: [bchalkley@plymouth.ac.uk](mailto:bchalkley@plymouth.ac.uk)

Programme Officer: Andrew Elmes  
e-mail: [aelmes@plymouth.ac.uk](mailto:aelmes@plymouth.ac.uk)

<http://www.science.plym.ac.uk/departments/seed/>

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