University of Westminster : 17 - Earth Systems and Environmental Sciences
RAE 2008 : RA2 - Research outputs

Name: Foster, I **Category: A** **FTE: 0.20**

Identifier: 0710830075092 Year of entry:
Research groups:

RA2 - Research outputs

Output number: 1 **Output type:** Journal article
Title:

Changing suspended sediment and particulate phosphorus loads and pathways in underdrained lowland agricultural catchments; Herefordshire and Worcestershire, U.K.
Journal title: Hydrobiologia
Month/year of publication: March 2003 **Pagination:** 119-126 **Volume:** 494
ISSN: 0018-8158
URL: http://dx.doi.org/10.1023/A:1025497728181
DOI: 10.1023/A:1025497728181
Is duplicate: No **Is interdisciplinary:** No **Pending publication:** No
Research group:
Co-authors: **Additional authors:** 3
1: Chapman, A.S External author: Yes
2: Hodgkinson, R.M External author: Yes
3: Jones, A.R External author: Yes
Other relevant details:
Foster: obtained funding from EA & wrote paper. Chapman: PhD student on related Defra-funded project. Hodgkinson: collaborator on project providing data for Chapman's PhD. Jones: EA funded MSc student providing core data. Lees: PDRF co-ordinating research projects at Coventry. Turner: technician; oversaw operation of Coventry laboratories Scott: EA contract manager.

Output number: 2 **Output type:** Journal article
Title:

Sediment and phosphorus delivery from field to river via land drains in England and Wales. A risk assessment using field and national databases.
Journal title: Soil Use and Management
Month/year of publication: December 2003 **Pagination:** 347-355 **Volume:** 19(4)
ISSN: 0266-0032
DOI:
Is duplicate: No **Is interdisciplinary:** No **Pending publication:** No
Research group:
Co-authors: **Additional authors:** 1
1: Chapman, A.S. External author: Yes
2: Hodgkinson, R.J. External author: Yes
3: Lees, J.A. External author: Yes
Other relevant details:
Chapman: PhD student (Foster; Director of Studies). Foster: obtained Defra funding and oversaw and edited paper. Lees: PDRF co-ordinating research projects at Coventry. Hodgkinson: collaborator on project providing data for Chapman's PhD. Jackson: Chapmans PhD second supervisor on phosphorus dynamics.

Output number: 3 **Output type:** Journal article
Title:

Post Depositional ^{137}Cs mobility in the sediments of three shallow coastal lagoons, SW England
Journal title: Journal of Paleolimnology
Month/year of publication: May 2006 **Pagination:** 881-895 **Volume:** 35(4)
ISSN: 0921-2728
URL: http://dx.doi.org/10.1007/s10933-005-6187-6
DOI: 10.1007/s10933-005-6187-6
Is duplicate: No **Is interdisciplinary:** No **Pending publication:** No
Research group:
Co-authors: **Additional authors:** 1
1: Mighall, T.M. External author: Yes
2: Proffitt, H. External author: Yes
3: Walling, D.E. External author: Yes
Other relevant details:
Foster: initiated research programmes associated with paper and wrote it.. Mighall: co-supervisor on Proffit's PhD and edited paper. Proffitt: self-funded PhD student working on all supporting elements; Walling: provided 137Cs analysis on some earlier data sets and commented on paper; Owens: edited paper and collected samples for analysis.

Output number: 4 **Output type:** Journal article
Title:

Sediment tracing and environmental history for two small catchments, Karoo Uplands, South Africa.
Journal title: Geomorphology
Month/year of publication: October 2007 **Pagination:** 126-143 **Volume:** 90(1-2)
ISSN: 0169-555X
URL: http://dx.doi.org/10.1016/j.geomorph.2007.01.011
DOI: 10.1016/j.geomorph.2007.01.011
Is duplicate: No **Is interdisciplinary:** No **Pending publication:** No
Research group:
Co-authors: **Additional authors:**
1: Boardman, J. External author: Yes
2: Keay-Bright, J. External author: Yes
Other relevant details:
Boardman and Foster obtained NERC funding for the research, from which the paper was written. Foster wrote the paper while Boardman and Keay-Bright made significant editorial contributions. Keay-Bright: Oxford funded PhD student (supervised by Boardman) made significant contributions to fieldwork and whose PhD project provided important background information.

Name: Lewis, J.M. Category: A FTE: 1.00

Identifier: 9010831363949 Year of entry:
Research groups:

RA2 - Research outputs

Output number: 1 **Output type:** Journal article
Title:

The cyst-theca relationship of *Bitectatodiniumtepikiense* (Dinophyceae)
Journal title: European Journal of Phycology
Month/year of publication: May 2001 **Pagination:** 137-146 **Volume:** 36(2)
ISSN: 0967-0262
URL: http://dx.doi.org/10.1080/09670260110001735288
DOI: 10.1080/09670260110001735288
Is duplicate: No **Is interdisciplinary:** No **Pending publication:** No
Research group:
Co-authors: **Additional authors:** 1
1: Ellegaard, M. External author: Yes
2: Mudie, P.J. External author: No
3: Rochon, A. External author: No
Other relevant details:
Forms part of a body of work linking the cysts of dinoflagellates with their motile cells having impact on our biological understanding of these organisms and assisting in geological interpretation of their fossil record. The main author initiated and designed the project and carried out the majority of the observations.

Output number: 2 **Output type:** Journal article
Title:

Cyst-theca relationship, life cycle, and effects of temperature and salinity on the cyst morphology of *Gonyaulaxbaltica* sp. nov. (Dinophyceae) from the Baltic Sea area
Journal title: Journal of Phycology
Month/year of publication: August 2002 **Pagination:** 775-789 **Volume:** 38(4)
ISSN: 0022-3646
URL: http://dx.doi.org/10.1046/j.1529-8817.2002.01062.x
DOI: 10.1046/j.1529-8817.2002.01062.x
Is duplicate: No **Is interdisciplinary:** Yes **Pending publication:** No
Research group:
Co-authors: **Additional authors:** 0
1: Ellegaard, M. External author: No
2: Harding, I. External author: Yes
Other relevant details:
Part of a body of work exploring dinoflagellate cyst morphology in palaeoecological interpretation. An interdisciplinary study cross-referencing living material and the fossil record and the first published work modeling the influence of environmental factors on dinoflagellate cyst morphology. Main author intitiated and designed the project and contributed to taxonomic observations.

Output number: 3 **Output type:** Journal article
Title:

Morphological and LSU rDNA sequence variation within the *Gonyaulax spinifera-Spiniferites* group (Dinophyceae) and proposal of *G. elongata* comb. nov. and *G. membranacea* comb. nov.
Journal title: Phycologia
Month/year of publication: April 2003 **Pagination:** 151-164 **Volume:** 42(2)
ISSN: 0031-8884
DOI:
Is duplicate: No **Is interdisciplinary:** Yes **Pending publication:** No
Research group:
Co-authors: **Additional authors:** 1
1: Daugbjerg, N. External author: Yes
2: Ellegaard, M. External author: No
3: Rochon, A. External author: No
Other relevant details:
Part of a body of work linking cysts of dinoflagellates with their motile cells. This has impact on understanding their biology and assists in geological interpretation of their fossil record. First published molecular work on the Spiniferites group. Main author intitiated and designed project and contributed to taxonomic observations.

Output number: 4 **Output type:** Journal article
Title:

In situ identification and localization of bacteria associated with *Gyrodinium instriatum* (Gymnodiniales, Dinophyceae) by electron and confocal microscopy
Journal title: European Journal of Phycology
Month/year of publication: November 2002 **Pagination:** 523-530 **Volume:** 37(4)
ISSN: 0967-0262
URL: http://dx.doi.org/10.1017/S0967026202003955
DOI: 10.1017/S0967026202003955
Is duplicate: No **Is interdisciplinary:** No **Pending publication:** No
Research group:
Co-authors: **Additional authors:** 1
1: Alverca, E. External author: Yes
2: Biegala, I.C. External author: Yes
3: Kennaway, G.M. External author: No
Other relevant details:
Forms part of a body of work exploring bacterial-dinoflagellate interactions and is the first characterization of the bacterial flora associated with this species.
Main author contributed to the design and implementation of this study and to the interpretation of the results.

Name: McEldowney, S. Category: A FTE: 1.00

Identifier: 8610831255773 Year of entry:
Research groups:

RA2 - Research outputs

Output number: 1 **Output type:** Conference contribution
Title:

A case study in environmental risk and its assessment in the BSE epidemic: lessons for the future
Conference: Anglo-Japanese Academy Proceedings of the Conference on National, Regional and Global Transition: a common agenda for Anglo-Japanese relations in the twenty-first century, 07-08 Sep 2001, Tokyo, Japan
Month/year of publication: 07/09/2001 **Number of pages:** 305-312
Media of output:
ISSN:
Is duplicate: No **Is interdisciplinary:** No **Pending publication:** No
Research group:
Co-authors: **Additional authors:** 0

Output number: 2 **Output type:** Authored book
Title:

Environmental law and regulation
Publisher: Blackstone
Year of publication: 2001 **Number of pages:** 225
ISBN: 1841741140
Is duplicate: No **Is interdisciplinary:** No **Pending publication:** No
Research group:
Co-authors: **Additional authors:** 0
1: McEldowney, J.F. External author: Yes
Other relevant details:
The book provides a discussion of environmental standard setting in the context of risk assessment and regulatory and policy-making constraints. It forms part of a continuing focus of work on environmental standards.

Output number: 3 **Output type:** Chapter in book
Title:

EU chemicals policy - a foundation for environmental protection or a missed opportunity?
Editors: Etty, T.F.M., Somsen, H., Kramer, L., Lee, M. and Scott, J.
Book title: Yearbook of European environmental law
Publisher: Oxford University Press
Year of publication: 2005 **Pagination:** 85-116
ISBN: 0199267863
Is duplicate: No **Is interdisciplinary:** No **Pending publication:** No
Research group:
Co-authors: **Additional authors:** 0
Other relevant details:
This article continues the body of work examining the consequences of scientific risk assessment and uncertainty for environmental regulation and the application of the precautionary principle.

Output number: 4 **Output type:** Journal article
Title:

Viewpoint: Science education and the public interest
Journal title: Law, Science and Policy
Month/year of publication: August 2005 **Pagination:** 251-268 **Volume:** 2(4)
ISSN: 1475-5335
DOI:
Is duplicate: No **Is interdisciplinary:** No **Pending publication:** No
Research group:
Co-authors: **Additional authors:**
Other relevant details:
This article represents a consideration of the role of science education in improving the communication of risk and scientific uncertainty by scientists and links to building the understanding of the public and policy-makers in developing appropriate precautionary responses

2005

Name: Petts, G. Category: A FTE: 1.00

Identifier: 0000795068229 Year of entry:
Research groups:

RA2 - Research outputs

Output number: 1 **Output type:** Journal article
Title:

Riparian vegetation and island formation along the gravel-bed Fiume Tagliamento, Italy
Journal title: Earth Surface Processes and Landforms
Month/year of publication: January 2001 **Pagination:** 31-62 **Volume:** 26(1)
ISSN: 0197-9337
URL: http://dx.doi.org/10.1002/1096-9837(200101)26:1<31::AID-ESP155>3.0.CO;2-Y
DOI: 10.1002/1096-9837(200101)26:1<31::AID-ESP155>3.0.CO;2-Y
Is duplicate: No **Is interdisciplinary:** No **Pending publication:** No
Research group:
Co-authors: **Additional authors:** 4
1: Gurnell, A.M. External author: Yes
2: Hannah, D.M. External author: Yes
3: Smith, B.P.G. External author: Yes
Other relevant details:
1st major paper to raise importance of managing riparian woodland for channel form and dynamics and biodiversity within river corridors based on collaborative research programme between University of Birmingham (NERC funded) and ETH Zurich with 4 equal PIs (Edwards, Gurnell, Petts, Ward). Gurnell led this paper.

Output number: 2 **Output type:** Journal article
Title:

Dams and geomorphology: research progress and future directions
Journal title: Geomorphology
Month/year of publication: October 2005 **Pagination:** 27-47 **Volume:** 71(1-2)
ISSN: 0169-555X
URL: http://dx.doi.org/10.1016/j.geomorph.2004.02.015
DOI: 10.1016/j.geomorph.2004.02.015
Is duplicate: No **Is interdisciplinary:** No **Pending publication:** No
Research group:
Co-authors: **Additional authors:** 0
1: Gurnell, A.M. External author: Yes
Other relevant details:
Invited paper for Binghampton Symposium reflecting on 25 years of research on regulated rivers and integrating more recent work on riparian woodland dynamics. Includes new conceptual model to reinterpret past changes and identifies future research needs for improved management of regulated streams. Petts (0.8)

Output number: 3 **Output type:** Journal article
Title:

Legitimizing fluvial ecosystems as users of water: an overview
Journal title: Environmental Management
Month/year of publication: October 2002 **Pagination:** 455-467 **Volume:** 30(4)
ISSN: 0364-152X
URL: http://dx.doi.org/10.1007/s00267-002-2734-3
DOI: 10.1007/s00267-002-2734-3
Is duplicate: No **Is interdisciplinary:** No **Pending publication:** No
Research group:
Co-authors: **Additional authors:** 2
1: Bunn, S.E. External author: Yes
2: Naiman, R.J. External author: Yes
3: Nilsson, C. External author: Yes
Other relevant details:
Paper arising from membership of ICSU (International Council for Science) Scientific Committee on Water Research addressing scientific basis for evaluating environmental flows in water resources policies and planning. Petts environmental hydrologist in team. Paper: Naiman (Chair: 0.25) + 4 equal Co-PIs (0.18) + research assistant (0.03).

Output number: 4 **Output type:** Journal article
Title:

Advancing science for water resources management
Journal title: Hydrobiologia
Month/year of publication: July 2006 **Pagination:** 277-288 **Volume:** 565(1)
ISSN: 0018-8158
URL: http://dx.doi.org/10.1007/s10750-005-1919-1
DOI: 10.1007/s10750-005-1919-1
Is duplicate: No **Is interdisciplinary:** No **Pending publication:** No
Research group:
Co-authors: **Additional authors:** 0
1: Kennedy, R. External author: Yes
2: Nestler, J. External author: Yes
Other relevant details:
Addresses the needs for new scientifically-sound modeling tools to support the setting of environmental flows in water resources planning. It identifies the need to focus on flow variability and proposes how to integrate physical and biological sciences in advancing new models. Funded by US Army R & D, Petts (0.6)

Name: Thompson, D. S. Category: A FTE: 1.00

Identifier: 9511230000412 Year of entry:
Research groups:

RA2 - Research outputs

Output number: 1 **Output type:** Journal article
Title:

How do cell walls regulate plant growth?
Journal title: Journal of Experimental Botany
Month/year of publication: September 2005 **Pagination:** 2275-2285 **Volume:** 56(419)
ISSN: 0022-0957
URL: http://dx.doi.org/10.1093/jxb/eri247
DOI: 10.1093/jxb/eri247
Is duplicate: No **Is interdisciplinary:** No **Pending publication:** No
Research group:
Co-authors: **Additional authors:**
Other relevant details:
A critical examination of current paradigms of plant cell wall biomechanics with a particular focus on regulation of growth raising a number of difficulties. The paper proposes a new model of cell wall behaviour in which spacing between cell wall polymers is critical based upon theories of synthetic polymer rheology.

Output number: 2 **Output type:** Internet publication
Title:

Cell wall water content has a direct effect on extensibility in growing hypocotyls of sunflower (*Helianthus annuus* L.)
Publisher: Journal of Experimental Botany
Publication date: 26/09/2007
ISSN: 0022-0957
URL: http://dx.doi.org/10.1093/jxb/erm183
DOI: 10.1093/jxb/erm183
Is duplicate: No **Is interdisciplinary:** No **Pending publication:** No
Research group:
Co-authors: **Additional authors:**
1: Evered, C. External author: No
2: Majevadia, B. External author: No
Other relevant details:
Shows that water content directly affects cell wall biomechanics, suggesting a previously unforeseen effect of water availability on plant growth and supporting the theories developed in 2. Environmental implications are briefly considered. Evered carried out s.e.m. and Majevadia, preliminary work. The conception, design and most experimental work were by Thompson.

Output number: 3 **Output type:** Journal article
Title:

Extensiometric determination of the rheological properties of the epidermis of growing tomato fruit
Journal title: Journal of Experimental Botany
Month/year of publication: June 2001 **Pagination:** 1291-1301 **Volume:** 52(359)
ISSN: 0022-0957
URL: http://dx.doi.org/10.1093/jexbot/52.359.1291
DOI: 10.1093/jexbot/52.359.1291
Is duplicate: No **Is interdisciplinary:** No **Pending publication:** No
Research group:
Co-authors: **Additional authors:**
Other relevant details:
A detailed rheological characterisation of the biomechanical properties of tomato fruit epidermis with particular focus on those likely to determine growth rates and therefore to be involved in regulation of fruit size and environmental effects on crop yield and quality.

Output number: 4 **Output type:** Internet publication
Title:

Space and time in the plant cell wall: relationships between cell type, cell wall rheology and cell function

Publisher: Annals of Botany
Publication date: 27/07/2007
ISSN: 0305-7364
URL: http://dx.doi.org/10.1093/aob/mcm138
DOI: 10.1093/aob/mcm138

Is duplicate: No **Is interdisciplinary:** No **Pending publication:** No
Research group:
Co-authors: **Additional authors:**
Other relevant details:
Develops the application of theories of synthetic polymer rheology to plant cell walls introduced in 2, including detailed analysis and modelling of the effects of cell wall water content. The consequences for plant physiology are also considered for a number of specific tissues.