



Meeting **BOARD OF STUDIES FOR THE FACULTY OF SCIENCE**  
Place Microsoft Teams  
Date Wednesday 18 January 2023 at 14:15

Present	Professor M Jones	Dean of Science (Chair)
	Dr R Bedford	Faculty of Humanities and Social Sciences
	Professor A Burrows	Head of Department of Chemistry
	Dr S Crennell	Department of Life Sciences (Natural Sciences Director of Teaching)
	Dr C Dodson	Department of Life Sciences
	Dr N Fotaki	Department of Life Sciences
	Miss E Francmane	Undergraduate student representative
	Professor M Hejmadi	Associate Dean (Education)
	Miss J Kildyushova	Students' Union Sabbatical Officer (Education)
	Professor A Murrell	Head of Department of Life Sciences
	Dr F Qin	School of Management
	Professor T Rogers	Associate Dean (Research)
	Dr T Shardlow	Department of Mathematical Sciences
	Dr G Shermer	Department of Chemistry
	Professor J Sivaloganathan	Department of Mathematical Sciences
	Professor D Skryabin	Department of Physics
Dr C Todd	Department of Life Sciences (in addition to Professor A Murrell)	
Professor G Traustason	Head of Department of Mathematical Sciences	
Professor V Valev	Head of Department of Physics	
Professor S Ward	Associate Dean (International)	
Dr M Wright	Department of Computer Science	
In attendance	Mrs M Hallett	Faculty Assistant Registrar (Secretary)
	Mrs S Paine	Programmes Manager (Operations)
Apologies	Dr F Bisset	Learning Partnerships Office
	Dr Z Burke	Department of Life Sciences
	Dr M Lennox	Faculty of Engineering and Design
	Professor E O'Neill	Head of Department of Computer Science
	Mr Z Zhao	Postgraduate Taught representative

**Action**

**7374 MINUTES OF PREVIOUS MEETING**

The Board approved the minutes of the previous meeting of the Board held on 17 November 2022 (Paper 138) and there were no matters arising.

**7375 CHAIR'S BUSINESS**

The Chair welcomed Dr R Bedford (Senior Lecturer, Department of Psychology), replacing Dr G Stothart, as new Faculty of Humanities and Social Sciences representative on the Board.

**7376 REPORT ON RESEARCH GRANTS**

The Board received details of awards accepted by Research and Innovation Services from 9

November 2022 until 10 January 2023 (Paper 139).

The Chair congratulated in particular:

- Dr Marina Uzelac, Department of Chemistry, for her award of £395,144 from The Royal Society for research into Mn(II): A Janus Face for Catalysis.
- Professor Randy Mrsny, Department of Life Sciences, for his award of £703,600 from Novo Nordisk A/S for research into Toxin-based Transepithelial Delivery of Antibodies.
- Professor Paul Milewski (hosting a fellowship), Department of Mathematical Sciences, for his award of £325,760 from the EPSRC for research into NFFDy - New Directions for Waves in Fluids.
- Professor Simon Bending, Department of Physics, for his award of £456,437 from the EPSRC for research into Intrinsic Pinning in Magnetic Iron-Based Superconductors; a Route to High Critical Current Conductors at High Magnetic Fields.
- Professor Stijn Wuyts, Department of Physics, for his award of £1,306,044 from the Science and Technology Facilities Council (STFC) for Astrophysics at the University of Bath 2023-2026.

### **7377 ESTABLISHMENT OF PRIZES**

The Board approved the establishment of a new Transdermal Diagnostics Industrious Student Award in the Department of Physics (Paper 140).

Professor V Valev explained that the prize would be awarded for best placement poster (graded by the DRKEC) to recognise engagement with industry and the desire to be entrepreneurial.

The Board requested that inclusion of the word 'industrious' in the name of the award be reviewed given its literal meaning of 'hard working'.

*Secretary's note: It was agreed immediately following the meeting that the prize name would be changed to 'Transdermal Diagnostics Student Award'.*

The Chair reported that a paper on a Dean's award (as discussed at the last meeting) would be brought to the next meeting.

### **7378 NEW PROGRAMME PROPOSAL: MSc Financial Mathematics with Data Science**

Professor Gunnar Traustason presented this item. Professor G Traustason explained that the new MSc is targeted at students with a degree in a quantitative subject, e.g. maths, physics, engineering, economics, who wish to gain breadth and mathematical techniques relevant to finance. A distinctive feature of the programme is the emphasis on developing practical and theoretical understanding of modern machine learning and data science tools and their applications in the financial sector. There will also be a focus on emerging areas, such as fintech, and an opportunity to engage with industry experts, e.g. through visiting speakers from the financial industry. The market analysis indicates that the MSc will have a strong appeal to overseas students. The MSc has a target intake of 13 FTE students in Year 1, of which 10 will be from overseas, rising to 25 in Year 5. The MSc is a 90 credit course, with a taught component of 60 credits, plus a 30 credit summer research project. 5 of the units (comprising 30 credits) are new and bespoke to the MSc (tailored to the financial sector). Two positions at lecturer level (teaching and research) have been approved in the departmental planning cycle to support delivery of the new programme. In addition, support classes run by academic staff (outside of MASH), supported by paid, experienced PhD students, have been included in the costing, as well as access to High Performance Computing.

The Board considered the following documentation:

- Summary paper (Paper 141A).
- QA3.1 Resource Implications (Paper 141Bi) and course costing (Paper 141Bii):

The Board suggested that the case for two lecturer posts be discussed by the Department Executive Committee and strengthened in light of the recruitment targets, e.g. giving consideration to staggered recruitment once recruitment targets have been met, and/or making some of the 5 new units available to other existing courses, e.g. MMath.

The Board welcomed sharing of good practice with regard to innovative teaching.

- QA44 Annex B Course Specification (Paper 141C):

The Board suggested making employment opportunities more explicit. The Board also highlighted the importance of course content covering ethical behaviour for working in the financial industry.

- QA3.3 Market Information (Paper 141D).

The Board agreed Stage 1 Initial Approval (prior to consideration by APC on 15 February) of the proposal for a new MSc Financial Mathematics with Data Science degree, in the Department of Mathematical Sciences, for commencement from 2024/25. The Chair thanked Professor Alex Cox for producing the documentation.

#### **7379 FACULTY LEARNING, TEACHING AND QUALITY COMMITTEE**

The Board noted the minutes of the meeting held on 30 November 2022 (Paper 142).

#### **7380 UNIVERSITY BOARD OF STUDIES (DOCTORAL) (BoSD)**

The Board noted the minutes of the meeting held on 2 November 2022 (Paper 143).

#### **7381 FACULTY DOCTORAL STUDIES COMMITTEE (FDSC)**

The Board noted the minutes of the meeting held on 10 November 2022 (Paper 144).

#### **7382 FACULTY RESEARCH AND KNOWLEDGE EXCHANGE COMMITTEE**

The Board noted the minutes of the meetings held on 14 November (Paper 145A) and 12 December (Paper 145B) 2022.

#### **7383 FACULTY EXECUTIVE COMMITTEE**

The Board noted the minutes of the meeting held on 29 November 2022 (Paper 146).

#### **7384 STAFF STUDENT LIAISON COMMITTEE (SSLC) MEETINGS**

The Board noted the minutes of the following Department SSLC meetings:

**Department of Life Sciences: Biology and Biochemistry** 23 November 2022 (PGT) (Paper 147).

**Department of Chemistry** 14 December 2022 (Paper 148).

**Department of Computer Science** October (online MSc programmes) (Paper 149A), 18 October (DA) (Paper 149B), 9 (UG) (Paper 149C) and 23 (PGT) (Paper 149D) November, and 1 (UG) (Paper 149E) December 2022.

**Department of Mathematical Sciences** 30 November 2022 (Paper 150).

**Natural Sciences** 30 November 2022 (Paper 151).

**Department of Life Sciences: Pharmacy and Pharmacology** 16 (Paper 152A) and 30 (Paper 152B) November (UG) and 1 December (PGT) (Paper 152C) 2022.

**Department of Physics** 2 November (Paper 153A) and 7 December (Paper 153B) 2022.

#### **7385 ANY OTHER BUSINESS**

The Board noted that the British Council Women in STEM award for Masters programmes, so of relevance to the Departments of Computer Science and Life Sciences, would go live by the end of January 2023.