

# **First Announcement: Induction Course for New Lecturers in the Mathematical Sciences 2021**

## **A Hybrid Conference at the Isaac Newton Institute for Mathematical Sciences, Cambridge**

### **8 – 9 September 2021**

Through a community initiative supported by the Institute of Mathematics and its Applications, the Isaac Newton Institute for Mathematical Sciences and the Heads of Departments of Mathematics Sciences (HoDoMS) and endorsed by the Royal Statistical Society, the London Mathematical Society, the Edinburgh Mathematical Society and the Operational Research Society, we are delighted to announce that in September 2021 the two-day Induction Course for lecturers new to teaching mathematics and statistics within Higher Education will once again take place.

Whilst arrangements may still be subject to change due to the ongoing Covid-19 situation and any future Government guidance, we are currently preparing for the Induction Course to be delivered as a hybrid model with the option for some delegates to attend in person.

The Induction Course for New Lecturers in the Mathematical Sciences has been designed by the mathematics community so that it is ideally suited for anyone who is new to or has limited experience teaching mathematics or statistics within UK higher education. It will be delivered by individuals with significant experience of teaching in the mathematical sciences and will focus upon the specific details and issues that arise in mathematics and statistics teaching and learning within higher education including topics such as:

- Lecturing.
- Supporting student learning.
- Making teaching interactive.
- Assessment, examinations and feedback.
- Linking teaching & research.
- Using technology to enhance teaching and learning.
- Using examples and mathematical problem solving.
- Teaching statistics and its applications.

Additionally there will be significant opportunities for delegates to discuss their own ideas, challenges and experiences with the session facilitators so that individual queries can be answered.

## Draft Programme

Please note, the ordering of sessions is subject to change.

<b>Wednesday 8 September 2021</b>	
0945	Registration
1000	Welcome & introduction to the Isaac Newton Institute for Mathematical Sciences <i>David Abrahams, Isaac Newton Institute</i>
1015	What makes a good mathematics lecture? <i>Michael Grove, University of Birmingham</i>
1130	Adapting your teaching for online delivery <i>Joe Kyle, University of Birmingham</i>
1230	Lunch
1315	Making teaching in the mathematical sciences more interactive <i>Lara Alcock, Loughborough University</i>
1430	How to teach mathematical thinking <i>Kevin Houston, University of Leeds</i>
1545	Tea / Coffee
1600	Linking teaching and research – planning for the future <i>Steve Otto, The R&amp;A</i>
1700	Just what can we reasonably expect our incoming undergraduates to know? <i>Louise Walker, University of Manchester</i>
1730	Sharing challenges and experiences [Interactive Discussion]
1800	Check in to Accommodation
1930	Meet for travel to Dinner
2000	Dinner (St John's College, Cambridge)
<b>Thursday 9 September 2021</b>	
0745	Breakfast
0900	What makes an example exemplary? <i>John Mason, The Open University</i>

1015	Designing course assessments and the use of technology in assessment <i>Chris Sangwin, University of Edinburgh</i>
1130	Tea / Coffee
1145	Statistical literacy – getting the message across <i>Rachel Hilliam, The Open University</i>
1300	Lunch
1345	Supporting students in the mathematical sciences <i>Louise Walker, University of Manchester</i>
1500	Sharing challenges and experiences [Interactive Discussion]
1530	Tea/Coffee and Close

## Certification

In the past, attendance at the Induction Course has been recognised as contributing towards some institutional programmes in learning and teaching for new staff.

The Higher Education Services Area Committee of the IMA has reviewed the content and specification of the 2019 Induction Course relative to the UK Professional Standards Framework (UKPSF) for Teaching and Supporting Learning in Higher Education<sup>1</sup>. As a consequence, the IMA will provide all participants who complete the Induction Course **in full** with a certificate confirming they have completed 12.25 hours of learning activities and that demonstrates how these activities align with the dimensions of the UKPSF. It is hoped that such certification will enable participants to receive recognition towards their own institutional training programmes as a result of attending this Induction Course.

## Session Facilitators

Those leading the sessions at the Induction Course are all experienced teachers of mathematics within UK higher education. They include:

Lara Alcock (*Loughborough University*)

Michael Grove (*University of Birmingham*)

Rachel Hilliam (*Open University*)

Kevin Houston (*University of Leeds*)

Joe Kyle (*University of Birmingham*)

John Mason (*Open University*)

Steve Otto (*The R & A and University of Birmingham*)

Chris Sangwin (*University of Edinburgh*)

<sup>1</sup> [https://www.heacademy.ac.uk/system/files/downloads/uk\\_professional\\_standards\\_framework.pdf](https://www.heacademy.ac.uk/system/files/downloads/uk_professional_standards_framework.pdf)

Louise Walker (*University of Manchester*)

### **Contacts and Registration**

For questions or queries about the academic content or structure of the Induction Course, please contact Michael Grove: [m.j.grove@bham.ac.uk](mailto:m.j.grove@bham.ac.uk)

For general conference queries please contact: [conferences@ima.org.uk](mailto:conferences@ima.org.uk)

For further details, including how to register, please visit: <https://ima.org.uk/13572/induction-course-for-new-lecturers-in-the-mathematical-sciences-2021/>