Registration and Contacts

Registration fee

The registration fee is just £90 (we have tried to keep costs to a minimum and please note all fees will be used to cover the cost of the workshop).

This fee covers attendance for both days, lunches and refreshments on both days, and dinner on the Monday evening.

Deadline

Deadline for booking is Friday 20th June.

To book your place please see the booking page at:

mathsevents.cf.ac.uk/mathedworkshop.

Contacts

For further information please don't hesitate to get in touch with the organisers:

Paul Harper: harper@cf.ac.uk Vince Knight: knightva@cf.ac.uk Rob Wilson: wilsonrh@cf.ac.uk

Speakers and Location

Speakers

- Toby Bailey (Edinburgh),
- Dana Ernst (Northern Arizona),
- TJ Hitchman (Northern Iowa),
- Vince Knight (Cardiff),
- Steve Rutherford (Cardiff),
- Chris Sangwin (Loughborough),
- Robert Talbert (Grand Valley State University, Michigan)

Location

The workshop will take place in the School of Mathematics, Cardiff University, CF24 4AG.



A range of accommodation is available near the venue to suit all budgets.

Workshop on Innovations in University Mathematics Teaching 7th to 8th July 2014

Cardiff University

Flipped Classroom and Inquiry Based Learning

mathsevents.cf.ac.uk/mathedworkshop





8th of July Schedule

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Schedule

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Classroom: A Gateway to Lifelong Learning (Robert solutions II.30 : Flipping the University Mathematics 10.20 - 10.30 : Welcome and introduction (Paul Harper)

11.30 - 12.00: Using a Flipped Classroom in a Large Talbert)

12.00 - 12.30 : TBC (Toby Bailey) Programming Course for Mathematicians (Vince Knight)

Lunch (12.30 - 13.15)

Session 2

13.45 - 14.15 : TBC (Steve Rutherford) 13.15 - 13.45 : TBC (Chris Sangwen)

14.15 - 14.45 : Panel discussion on flipped classrooms

Session 3

(Part 1) (Theron Hitchman & Dana Ernst) Models, Methods, and Effectiveness for Higher Education 15.00 - 16.30 : Inquiry-Based Education in Mathematics:

Workshop dinner (from 19.00)

own teaching. share with us how they are using such methods within their are delighted to have expert speakers from the UK and US they might be embedded within their own teaching. We these methods in practice and reflect on ways in which with plenty of opportunities for delegates to experience inquiry based learning and flipped classrooms, combined In particular there will be masterclasses on two methods: approaches to teaching mathematics in university settings. This 2-day workshop will introduce delegates to innovative

Description

problems through an adventure in mathematical discovery. instructor guides and mentors students via well-crafted showing facts or a clear, smooth path to a solution, the mind that Mathematicians engage in regularly. Rather than communicate... all those wonderful skills and habits of problems, conjecture, experiment, explore, create, and peers. Students are given tasks requiring them to solve or herself, and communicating those ideas clearly to role in making sense of mathematical ideas for himself Inquiry based learning focuses attention on the student's

This methodology often makes use of modern technologilivery so as to ensure that contact time is student centered. etc.) in class. It aims to modify the locus of content depart of learning (synthesizing, analyzing, problem-solving, exposure learning prior to class and focus on the processing A **flipped classroom** is a model in which students gain first-

cal tools but does not require them.

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(Part 2) (Theron Hitchman & Dana Ernst) Models, Methods, and Effectiveness for Higher Education 09.30 - 13.00 : Inquiry-Based Education in Mathematics:

Lunch (13.00 - 13.45)

used in their own classes. biscuss how some of the methodologies presented could be ot estaggibe gaiguruoons : stad gaides Teaching delegates to

15.15 : Closing remarks