

ACADEMIC NEWS

DPMMS:

The department would like to extend their congratulations to *Oscar Randal-Williams* who has been awarded a [Leverhulme Prize](#) for his work in algebraic topology, and in particular the study of moduli spaces of manifolds. The prize recognizes the achievements of early career researchers across a broad range of fields.

DAMTP:

- *Megan Davies-Wykes* has won the first UK Fluids Network photo competition. Her photo '(Accidental) double diffusive instability' can be viewed on the [UK Fluids Network webpage](#).
- *Ray Goldstein* received an Investigator Award from the Wellcome Trust entitled 'Biomechanics of Ciliated Tissues'. The Award total, for a the period of 1st October 2017 – 30th September 2022, is £1,656,325.
- *Pierre Haas* has been awarded has been awarded the [American Physical Society's 2017 Award](#) for Outstanding Doctoral Thesis Research in Biological Physics. The award recognises outstanding quality and achievement of PhD research in any area of experimental, computational, engineering, or theoretical biological physics.
- *Anders Hansen* and *Alex Bastounis* (CCA student) work on new perspectives in compressed sensing is on the front page of the October edition of [SIAM News headlining their Imaging Science Special Issue](#).
- *Stephen Hawking's* 1966 PhD thesis has been made freely available online for the first time to celebrate Open Access Week. There was coverage of this on the [BBC](#). He also contributed to the '[Einstein's waves detected in star smash](#)' article, written by Pallab Ghosh, the BBC Science correspondent.
- *Amalia Thomas'* (PhD Student) public engagement work into the world of photoelasticity has been recently featured in the [Royal Society Inside Science blog](#), as part of their public engagement case study series.
- Former DAMTP PhD student *Tom Crawford* has recently published the following material on his [webpage](#):
[Video: Newton's Law of Gravity](#)
[Conservation in Cambridge Botanic Gardens](#)
[The Blast Lab: experimenting on human tissue to protect our soldiers](#)

MMP:

- *Ems Lord*, NRIC Programme Director, has been elected President of the Mathematical Association for 2019/2020. The Mathematical Association is the oldest established teachers' subject association in the UK. The [NRICH programme](#) is the largest programme within the MMP, providing rich mathematics education resources for ages 3 to 18, and supporting teachers through professional development. In 2016/2017 NRIC's online resources attracted over 5.5 million users.

The Faculty would like to extend their congratulations to the following students who have recently completed their PhD's:

- Thomas Berrett (DPMMS)
- James Gundry (High Energy Physics)
- Zhuo Min Lim (CCA, DAMTP)
- Ellen Powell (CCA, DPMMS)
- Emily Riley (Biological Physics & Mechanics)
- Jack Smith (DPMMS)
- Carl Turner (High Energy Physics)

ACADEMIC VISITORS

The following academic visitors will be visiting DAMTP:

- Chris Cade will be visiting Steve Brierley, Quantum Information Group – Thursday 9th November
- Gavin Coleman will be visiting Yufeng Lin, Geophysical & Astrophysical Fluid Dynamics Group - Monday 13th November
- Jiannis Pachos will be visiting Steve Brierley, Quantum Information Group – Wednesday 22nd November

ANNOUNCEMENTS

Research Facilitator (Fixed Term) - Vacancy NEW POST

Applications are invited for the position of Research Facilitator. The scope of the role is to work with the academics across the Faculty of Mathematics, mainly those in the Department of Applied Mathematics and Theoretical Physics, but also those in Pure Mathematics and Mathematical Statistics.

The remit of Research Facilitation is to support and develop the research strategy in DAMTP by increasing the number and quality of research grant applications and reducing the administrative burden associated with the initiation and continuation of funded research projects, as well as contributing to departmental responses to external initiatives and assessment activities. The closing date for applications is Sunday 5th November. Full details and Further Particulars on this vacancy can be found on the University of Cambridge [Job Opportunities page](#).

Internal Funding Call for Impact Acceleration

Deadline: Friday 1st December 2017

The University of Cambridge EPSRC Impact Acceleration Account (IAA) is available to promote wider and more effective engagement with the impact agenda. These resources provide researchers with a valuable funding bridge to support the exploitation of outcomes from research connected with the EPSRC portfolio. The key objective is to shorten the time to impact by improving knowledge transfer, establishing external partnerships and increasing commercialisation success rates.

The Pro-Vice Chancellor for Research chairs the IAA Steering Group which is responsible for allocating the awards on a competitive basis. Expressions **of interest are usually not required**. Funding is available for three categories of impact:

Partnership Development

- For strategic engagement with business
- Pump primes new collaborations
- Up to £50,000 available
- Funds initial research for 3-6 months, then industry partner expected to continue

Knowledge Transfer Fellowship

- Funds secondments and placements 3-12 months
- Outward – includes staff costs
- Inward – includes direct costs but salary excluded
- Up to £60,000 available

Follow on Fund

- For early stage commercialisation
- Funds Proof of Concept, prototypes, market assessments etc.
- Up to £60,000 available

A call is currently open for applications to the *Partnership Development Award and Knowledge Transfer Fellowship* – closing date *Friday 1st December 2017*.

Any questions regarding the scheme arrangements should be directed to *Stephanie North* (Knowledge Transfer Facilitator) sn468@cam.ac.uk, Ext: 60414, G0.14 or researchstrategy@admin.cam.ac.uk. There is further information on the [Research Strategy Office webpage](#).

Open Meeting for University Administrative Staff

Monday 13th November, 3.30pm, at the Babbage Lecture Theatre, New Museums Site

All professional service, administrative and assistant staff across the University are invited to attend this Michaelmas Term meeting. At the meeting, the University's new Vice-Chancellor, Professor Stephen Toope, will be in conversation with Director of Communications Paul Mylrea. He will talk about his career as a scholar and academic leader, and his initial thoughts on issues affecting Cambridge and the wider higher education sector in the UK, and he will also take questions from the audience. The meeting will be followed by a drinks reception where staff will have the opportunity to meet the Vice-Chancellor informally. If you would like to submit a question to be considered at the meeting, you can do so by emailing uasopenmeetings@admin.cam.ac.uk. Please use this email to notify the organisers if you wish to attend the drinks reception after the event.

EVENTS

CCA Open Day

Monday 6th November, lunchtime onwards in Central Core

The CCA Open Day will use half of Central Core throughout the afternoon. If space is needed for supervisions or private study alternative study spaces are: the Part III Room (lower ground floor of Pavilion B) or The Betty & Gordon Moore Library (lower ground floor, where there are pods for group work and a glass partitioned area of desks and seating for quiet study).

CCIMI: Cantab Capital Institute for the Mathematics of Information – Connecting with Industry

Wednesday 22nd November, at the Isaac Newton Institute

The main focus of this one day conference event will be as an industrial engagement day that will provide an update on research and collaborations taking place at CCIMI, as well as highlighting projects being developed elsewhere. The talks will highlight research taking place at CCIMI, with associated industrial engagements and will look to explore the big questions in data science where mathematics is most suited to help provide answers. The event is free, and the conference programme and registration details can be found [here](#).

Postgraduate Open Day 2018

The Faculty will be holding a Postgraduate Open Day on *Friday 3rd November*. There will be a series of short talks, followed by a drop-in cafe in the Central Core from 3.00pm - 4.30pm. Staff and current students are encouraged to come along to the drop-in to meet prospective students. Further details about this and the University wide Open Day are available here: <https://www.maths.cam.ac.uk/postgraduate-open-day>

The Betty & Gordon Moore Library – Moore Methods sessions

The termly [Moore Methods sessions](#) started on Thursday 26th October and will continue throughout Michaelmas Term covering a range of different skills and topics, from referencing and research data management, to presentation skills and using Twitter. These are drop-in sessions and all are welcome. They will take place in the *Glass Room* and full details are available by the above link.

Winton Centre

The Winton Centre will be holding two events over the coming months:

Tuesday 14th November, 5.30pm – 8.00pm, at Peterhouse Lecture Theatre

Can you handle the truth? Facts, figures and communicating uncertainty.

This event, in conjunction with the Centre for Science and Policy (CSaP), will be hosted David Spiegelhalter (Stats Lab). Event details and how to book can be found [here](#).

GENERAL INFORMATION

New member of administrative staff

We are delighted to announce that *Arti Sheth Thorne* joined DPMMS on Monday 23rd October as ERC Grants Administrator. Her office is C1.05 and her contact details are: ast44@dpmms.cam.ac.uk / (3)37959.

Faculty for Mathematics – Student Elections STUDENTS

Student Elections for places on the Mathematics Faculty Board (two undergraduate places and one graduate place) are now underway. An election of student members of the Faculty Board to serve for twelve months

from 1st December 2017 to 30th November 2018 will be held on **Thursday 23rd November 2017**. Voting will take place online and is by single transferable vote. The election will be conducted in accordance with the provisions of the Statutes and Ordinances, pp. 113-116. Votes can be cast between 8.00am and midnight at www.vote.cusu.cam.ac.uk. Full details on who is eligible and on the nominations process can be found on the [Faculty of Mathematics Student Elections 2017 webpage](#). **Nominations** must reach Hannah Fox, the Secretary of the Faculty Board, CMS, by 5.30pm on **Thursday 16th November 2017**.

CMS Photograph Competition – winners announced

In Easter term 2016/17 The Faculty of Mathematics launched the first photography competition. The competition attracted 71 entries and the full range of entrants can be found here:

<http://www.maths.cam.ac.uk/faculty-of-mathematics-photography-competition-2017-results/>

The winners in each category are as follows:

- Life at CMS: *Two researchers at a desk* - Johannes Hjorth, Joana Grah and Veronica Corona



- Maths at Cambridge: *Infinite TV's* - Johannes Hjorth, Joana Grah and Veronica Corona



- Mobile Maths: *Leaves* - Julia Goedecke



The judges felt that *Infinite TV's* should be the overall winner. Each category winner received a £100 Amazon voucher, and the overall winner also received £100.

Language Training FOR RESEARCH STUDENTS

The School offers financial support for all research students wishing to undertake Language Training. An application for funding should be made directly to the School via the online form. Students are expected to have asked their College to either cover the cost, or make a part-cost contribution, prior to making an application to the School. Further information and the online application form are available [here](#).

STIMULUS Programme

The MMP's STIMULUS programme has placed 100 student volunteers in local schools this term. STIMULUS is a community service programme which gives Cambridge University students the opportunity to work with pupils in local primary and secondary schools and sixth form colleges, helping with Maths, Science and Computing lessons. Volunteers sign up for a term at a time, helping in their assigned school for a session each week. STIMULUS attracts students from many different subjects, including Natural Sciences, Maths, Engineering, Medicine and Computer Science. This term twenty-nine of the STIMULUS volunteers are Mathematics students.

Macmillan Cancer Research - Cake Sale

The cake sale which took place on Friday 27th October in aid of Macmillan Cancer Research, raised £283.86 Thank you to everyone who baked and supported this event.



LOCAL ENVIRONMENT & SUSTAINABILITY

Bike Safety

The CMS Safety Committee would like to bring to your attention the UK legal requirement for front and rear lights and a rear reflector, along with the recommendation to wear a cycle helmet and appropriate high visibility clothing, and to make sure your bicycle is in good working order. The [Student's Union Advice Service](#) has lots of useful information on bike safety that is worth reading.

CMS Book Exchange

The CMS Exchange carousel is situated in Central Core just outside MR1. Unwanted Maths books can be donated there for others to take and benefit from. It also possible to leave non-academic books as well.

Green Impact Pool Bikes NEW INITIATIVE

CMS has purchased two unisex hybrid bikes for use as pool bikes (1 x large and 1 x medium frame) with quick release saddle and dynamo lights, along with cycle helmets and high vis jackets. If you would like to borrow one of these to get to another University site or college for a meeting please ask CMS reception. They may also be used if you need to get to town at lunch time or you find your own bike locked to another bike

