

# DAMTP NEWS BULLETIN

08/02/2016

## ACADEMIC NEWS

- The paper "Improved Spatial Resolution and Targeted Sampling in MRI" by *Bogdan Roman (DAMTP)*, Martin J Graves (Radiology), *Anders Hansen (DAMTP)*, David J Lomas (Radiology) was selected by the University after an internal competition as the University's nomination for the prestigious [Rosetrees Interdisciplinary Prize 2016](#) (£250,000). This is work done in collaboration with the Radiology department and Cambridge University Hospitals on Magnetic Resonance Imaging (MRI), using General Electric 1.5T and 3T scanners. Further details on this work can be found on [Bogdan Roman's personal webpage](#).
- *Stephen Hawking*, in collaboration with Caltech Institute for Quantum Information and Matter (IQIM), to honour the occasion of the 50th anniversary of Richard Feynman's Nobel Prize (1965), has posted a video called 'Anyone can Quantum' which can be viewed via this [link](#).

## ANNOUNCEMENTS

### Call for Posters: Opportunity to Showcase your research at CMS Event on Wednesday 20<sup>th</sup> April 2016

The *University of Cambridge Mathematics and Big Data Showcase event* will be held on Wednesday 20<sup>th</sup> April 2016 at CMS – and we need your input.

**The aim** is to showcase the diversity and impact of mathematical research in Cambridge.

The format of the day will comprise a series of short lectures and an exhibition (during lunch and in the afternoon). Posters from University staff, Post Docs and PhD students are needed to make the exhibition a success. This is a great opportunity for staff and researchers in DAMTP and DPMMS to meet and network with people from academia, business, industry, policy makers, government and funding bodies – thus helping to develop pathways to impact. The visiting delegates will learn about the expertise in Cambridge Mathematics and find out about potential knowledge transfer activities, projects and partnerships.

The event is being organised jointly by CMS, The Turing Gateway, and Cambridge Big Data.

\*Please contact *Stephanie North* [sn468@cam.ac.uk](mailto:sn468@cam.ac.uk) if you have any questions about the event\*.

\*\*If you wish to exhibit, please contact *Lissie Hope* ([l.hope@turing-gateway.cam.ac.uk](mailto:l.hope@turing-gateway.cam.ac.uk)) with the title by *Friday 19<sup>th</sup> February 2016*.\*\*

### Cambridge Science Festival

The programme for the [2016 Cambridge Science Festival](#) is now available.

This year's Science Festival runs from *Monday 7<sup>th</sup> March - Sunday 20<sup>th</sup> March 2016*, and as usual features a huge range of events for all ages, including several mathematics talks given by both members of the Faculty and external speakers. Some events require pre-booking, and booking opens on *Monday 8<sup>th</sup> February*.

The MMP will be running a large family maths event and accompanying talks in the CMS on *Saturday 19<sup>th</sup> March 2016*. For more details see <http://maths.org/events>. You are warmly invited to bring your families to join in!

We will also be recruiting volunteers to help with the activities and with stewarding on the day. This is a great outreach volunteering opportunity, particularly for students, and we encourage anyone interested to get involved. We will circulate the call for volunteers closer to the date.

### The STIMULUS Programme

The STIMULUS Programme, co-ordinated by the MMP, gives Cambridge undergraduate and postgraduate students the opportunity to work with pupils in local primary and secondary schools and sixth-form colleges, helping with Maths, Science and Computing lessons. STIMULUS volunteers work as teaching assistants alongside teachers in the classroom, and each placement commits a volunteer to working in their assigned school for, typically, a couple of hours each week for a term. The programme is popular with both student volunteers and host schools. In the current 2015/16 year STIMULUS has created 188 school placements in 31 schools in Cambridge. A total of 98 students (19 mathematics students) volunteered for STIMULUS in the Michaelmas term, and 90 students (22 mathematics students) have volunteered in the current Lent term. STIMULUS attracts students from many different subject areas, with the majority studying Mathematics, Natural Sciences, Engineering, Medicine and Computer Science. If you are interested in volunteering please refer to the [STIMULUS Programme](#) website.

## EVENTS

### Andrew Chamblin Memorial Lecture 2016

The tenth Andrew Chamblin Memorial Lecture, entitled "**Harnessing the Quantum World**", will be given by *Professor Raymond Laflamme* at 5.00pm on *Wednesday 16<sup>th</sup> March* in *Lady Mitchell Hall, Sidgwick Avenue*.

Admission is free of charge by ticket available via the website:

<http://www.eventbrite.co.uk/e/andrew-chamblin-memorial-lecture-harnessing-the-quantum-world-tickets-19753349801>

### Careers Service: Insight in to finance careers for postdocs: employer-led session

*Thursday 11<sup>th</sup> February, 5.00pm-7.00pm, Hauser Forum, Seminar Rooms 2-3*

Are you wondering what it's really like to work in finance? What kind of work do postdocs who move in to this area do? It's often described as 'just like being a postdoc', but is it true?

Get your questions answered in this fun and interactive workshop hosted by leading Hedge Fund G-Research. Working in teams, you will focus on some of the mathematical issues in portfolio construction and you will come up with your own mathematically based trading strategies which will be run competitively against each other. A Q&A with senior quants from the company will follow, with informal drinks and networking after. If you are interested in attending please book a place via this link:

<http://www.careers.cam.ac.uk/notice/SessionText.asp?Code=8846&TermData=Lent&YearData=2016&Listing=PhysSci>

### Clinical/STEM networking and information exchange

In order to promote communication between clinicians involved in the treatment of cancer and physical scientists involved in research relating to cancer treatment / diagnosis a series of mini networking events have been arranged, which are aimed at both clinicians and scientists.

On *Friday 12<sup>th</sup> February, 11.30am-1.00pm* at *Corpus Christi College, Meeting Room 14*, *Professor John Aston* (Professor of Statistics, Cambridge Statistical Laboratory) will give a short talk highlighting some of the research that they are undertaking for clinical application, and *Dr James Brenton* (Senior Group Leader, CRUK CI and Honorary Consultant in Medical Oncology) will give a short talk detailing some of the bottlenecks and challenges they regularly experience in the Early Detection arena and what might help them in their daily work. Following the short talks there will be refreshments and networking opportunities to discuss potential avenues for collaborative work. Lunch will be provided so please sign up via the link below if you wish to come: <http://www.eventbrite.com/e/clinicalstem-networking-120216-tickets-19928712315>

### Top Tips for Athena SWAN Success

*Wednesday 24<sup>th</sup> February, 12:00 - 1:30pm, Room 2 Mill Lane Lecture Rooms, Mill Lane*

This will be a session sharing successful Athena SWAN initiatives. Come along to hear from colleagues what has made a difference, how the work has been resourced and how to analyse the data. It will be an ideal opportunity to share good practice and collect ideas to enhance your action plan. Lunch will be provided. To book a place, please visit: <http://toptipsas.eventbrite.co.uk>

### Cambridge University Botanic Garden

#### Orchid Festival 2016 – *The Orchid Hunters*

This year the orchid displays in the Glasshouse Range will focus on the Victorian plant hunters, the perils encountered, the prize orchids bagged and their lasting legacy in law. *Orchid Hunters* runs from *Saturday 13<sup>th</sup> February - Sunday 13<sup>th</sup> March 2016, 10.00am - 5.00pm* daily. Full details can be found on the [Botanic Garden](#) website.

### e-Luminate Cambridge Festival

The Cambridge festival of light returns for a fourth year with the theme of 'Connecting Lights', and will run from *Friday 12<sup>th</sup> February - Wednesday 17<sup>th</sup> February*. The Judge Institute Building, Fitzwilliam Museum, Gonville & Caius College, University Library, and the Senate House are some of the buildings involved with the festival. Full details can be found on the [e-Luminate Cambridge Festival](#) website.

## Twilight at the Museums

Wednesday 17<sup>th</sup> February 2016, 4.30pm – 8.30pm.

[Twilight at the Museums](#) is a FREE after-dark event for families where museums and collections across the city open their doors for a variety of torch-lit and illuminated adventures. With free drop-in activities and themed trails across 10 locations, there is plenty for families to enjoy. Full details of this event are available on their website.

## GENERAL INFORMATION

### New member of Administrative staff

We are delighted to announce that Jonathan (Jon) Foulkes will be joining DAMTP from Monday 15<sup>th</sup> February 2016 as the new DAMTP Accountant. There will be a three month handover with John Turner so that he can be thoroughly inducted into the role and the Department. For this period Jon will be based with John Turner in B1.27.

### DAMTP Telephone Liaison Officer

Faith Payne ([pa-damtpsec@maths.cam.ac.uk](mailto:pa-damtpsec@maths.cam.ac.uk)) has been assigned as one of DAMTP's Telephone Liaison Officers. Please contact her if you require any assistance with your office phone (i.e. resetting phone displays or voicemail pin codes etc.)

### Tripes Examination helpers required

The Undergraduate Office is currently recruiting helpers for the 2016 Mathematics Tripos examinations, which take place from *Tuesday 24<sup>th</sup> May - Wednesday 8<sup>th</sup> June*. They are particularly seeking PhD's and Postdoc's volunteers, but any reliable people with an eye for detail are most welcome too. Excellent rates of pay are offered for Invigilators, Mark checkers, Script sorters and Attendants. Please contact the Undergraduate Office at: [undergrad-office@maths.cam.ac.uk](mailto:undergrad-office@maths.cam.ac.uk) by Friday 6<sup>th</sup> May if you are interested in being involved.

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### RCUK 2016 - Collection of Research Outcomes (*Researchfish*)

If you are a **student** or **PI** in receipt of funding through RCUK then you should have already received notification. As a reminder, the Research Councils have announced that their next collection of output information via *Researchfish* will be from *Monday 1<sup>st</sup> February - Thursday 10<sup>th</sup> March 2016 (4.00pm)*. Data can be entered throughout the year *but has to be submitted during the collection period*. Failure to submit research outcomes may result in sanctions. Depending on the funder these may vary and include the inability to apply for further awards or award payments being withheld.

**\*\*NB:** Student recipients of RCUK funding are now also required to record their outcomes via *Researchfish*, although this year students will not be sanctioned for non-compliance. The expectation on receiving the award is that the PI or Student will report annually on the outcomes during the lifetime of the award, and then for a period of time afterwards (5 years for PI's, 3 years for students) so if you have received an email asking you to submit outcomes for an expired award, this is why. Information on these requirements can be found on the [University's Research Operations](#) webpage.