

# NERC EAO DTP

## Bulletin

Winter 2015 Issue 2



### DATES FOR YOUR DIARY

#### Interview Dates

Oceans	18 Feb 2016
Atmospheric, Manchester	24 Feb 2016
Earth & Env, Manchester	24 Feb 2016
Earth & Env, Liverpool	25 Feb 2016

#### DTP Events

1st Annual EAO NERC DTP Conference, Chester	19/20 July 2016
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#### Training

##### Cohort Training

##### 2nd year students

Commercialisation in Research, Manchester	18/19 Jan 16
Communications Workshop Part 2, Liverpool	Mar 2016, tbc
Setting yourself up for success, Manchester	4/5 Apr 2016

##### 1st year students

Communications Workshop Part 1, Manchester	21 Jan 2016
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##### Other training

Chemical changes in rocks: driving forces and mechanisms, Liverpool	3-5 Feb 2016
Computing & Data Analysis in Atmospheric Science, Manchester	5 full days Feb/Mar 2016

### General News

Prof Dan Faulkner will be stepping down as Earth & Environmental Sciences Pillar Head on 1st January 2016. The Management Board would like to thank Dan for all his efforts within the DTP. Dr Brian O'Driscoll will be the new Head for the Earth Pillar.

Our 2015/16 students have now started their studentships and are busy settling into their new research groups. Details of our new students are as follows:

<i>Student</i>	<i>Project Title</i>	<i>Supervisor</i>
Hayley Craig	<b>Diversity and function of tropical soils</b>	Jennifer Rowntree
Hazel Waring	<b>Alpine climate change: how does advanced snowmelt impact alpine greenhouse gas fluxes?</b>	Richard Bardgett
Emily Stanbrook	<b>Assessing how ecology influences evolutionary transitions to complex societies in African cichlids</b>	Susanne Shultz
Samantha Hook	<b>Quantifying the genetic health of wild and captive shark populations</b>	Jennifer Rowntree
Amy Parker	<b>Precious metal concentration in open-system magma chambers</b>	Brian O'Driscoll
Lewis Hughes (starts on 4th January 2016)	<b>Halogens in hydrous minerals</b>	Alison Pawley
Stephan Toby	<b>Transferring periodic sediment input signals to the stratigraphic record</b>	Rob Duller
Joe Aslin	<b>The deformation and metamorphism of micas and their implications for the strength of the Earth's crust: case studies in the Italian Alps and New Zealand</b>	Betty Mariani
Christopher Feeney	<b>Residence times of contaminated sediment in river floodplains</b>	Hugh Smith
Trevor Mitchell	<b>Interaction of Convective Storms along Drylines and Cold Fronts</b>	David Schultz
Simon Ruske	<b>How do Bioaerosols Respond to Rainfall? A Missing Biogeochemical Feedback</b>	Martin Gallagher
Kathryn Fowler	<b>Formation of ice in mixed-phase clouds</b>	Paul Connolly
James Brooks	<b>Characterising Absorbing Aerosol and its interaction with Clouds</b>	Hugh Coe
Arthur Gourain	<b>Copper speciation: from estuaries to open ocean</b>	Pascal Salaun
Anthony Wise	<b>Ocean to coast impact of deep ocean on UK coastal sealevel</b>	Jeff Polton
David Williams	<b>Modelling meteotsunamis on the European Shelf</b>	Kevin Horsburgh
Jennifer Jardine	<b>Using ocean gliders to understand the physical controls on phytoplankton variability in coastal and shelf seas</b>	Matthew Palmer
Kieran Newman	<b>Simulation and validation of combined waves and tides in complex nearshore environments</b>	Paul Bell

The next bulletin will be published Jun/Jul 2016. If you have any dates for courses or events relating to the EAO DTP in late summer/autumn to be included, please send to [julie.samson@manchester.ac.uk](mailto:julie.samson@manchester.ac.uk)

## Update for Supervisors

Applications for DTP PhD Studentships are now being submitted and you should receive any applications in early February if applicants are interested in your project.

The deadline for applications is noon on 4th February. The interview dates for all pillars are shown in "Dates for your Diary" on the front page of this bulletin.

## Student corner

### Interview days 2016

The PhD interview days for 2016 will be held in February, 18th for Ocean Sciences, 24th for Earth & Environmental Science and Atmospheric Science in Manchester, and 25th for Earth Sciences in Liverpool. We will be looking for student volunteers to assist with the activities on the day, and emails asking for help will be circulated soon. Timetables for all 3 days of interviews will be circulated late January/early February 2016.

### Coffee catch ups with DTP administrator

Coffee catch ups with Julie Samson are an opportunity to informally raise queries, resolve issues and get a sneak peak of whats ahead in the coming year. Spring catch up dates will be:

Liverpool w/c 14th March 2016

Manchester w/c 21st March 2016

### 1st Year Team Building, Snowdonia

Joe Aslin is busy with the preparations for Snowdonia 2016 and will be in touch with final details soon.

## Reminder of deadlines

**1st year students** Project Plans to Pillar Heads (cc Julie ) **by 8 Jan 2016**

**2nd Year students** Updated Training Plans to Pillar Heads (cc Julie) **by 11 Jan 2016**

**Computing and Data Analysis, C24 The Hive, SSB, Manchester (5 days throughout Feb and March)** To attend this course please contact Julie Samson for more details **by 25th Jan 2016**.

### The 11th Atmospheric Measurement Summer School:

Application process for this year's summer school now open

<https://www.ncas.ac.uk/index.php/en/atmospheric-measurement-summer-school>

To be held in May 2016 **Deadline 15th Feb 2016**

**NERC Numerical Earth Science Modelling Short Course 29th Mar-1st Apr 2016** applications are invited asap

A postgraduate course aimed at introducing numerical techniques for solving ordinary and partial differential equations with a range of applications from NERC disciplines

<http://community.dur.ac.uk/nerc.modelling>

## DTP Student Good News Stories

Louise Hawkins has this week presented a talk at AGU 2015 entitled "New evidence for a weak Devonian geo-magnetic field".



Charlotte Smith survived and thoroughly enjoyed her first scientific research cruise! 2 months at sea, sampling down the middle of the Atlantic ocean, lucky enough to not get sea sick but was inspired by the ocean.



Danielle Satterthwaite presents a poster at BES2015 entitled "Do changes in plant functional diversity and imposed warming change the peat composition in a peat-land?"



If you have a good news story that you would like us to include in the next issue, please send a few lines and any images to

[julie.samson@manchester.ac.uk](mailto:julie.samson@manchester.ac.uk)

## Associated Partner News & Events

### **Diamond Light Source**

Diamond are hosting their Spectroscopy Village Analysis workshop on 14th March 2016.

The deadline for registration is 12th Feb 2016 which you can access by visiting the following link

<http://www.diamond.ac.uk/Home/Events/2016/XASXRF.html>

### **NCAS**

NCAS are inviting proposals from eligible research organisations for 10 NCAS coordinated NERC studentships in air quality and atmospheric chemistry and physics to be distributed across UK universities.

The studentships are expected to span fundamentals of atmospheric pollution, megacity air quality, boundary-layer atmospheric physics, technology and informatics. NCAS will manage and deliver a complementary programme of formal training for this cohort of students, including new short course provision and use of existing NCAS summer schools and training courses.

Further information regarding this opportunity including details on how to apply are available on the NCAS website: <https://www.ncas.ac.uk/index.php/en/air-quality-and-health-studentships>

## Recent Events

The EAO DTP Induction took place over two days, 29th and 30th September 2015, in Manchester and Liverpool, where new students got to hear about research being undertaken in all three Pillars and were also provided with information on the PhD experience by existing DTP students. Students had the opportunity to bond with the rest of their cohort by undertaking team building activities, which involved a scavenger hunt around Liverpool Campus and building a tower out of Duplo bricks.



### **Public Engagement in Science—1st year DTP student workshop**

This half-day interactive workshop held in Manchester on 18th November 2015 was aimed at new researchers who are new to public engagement. The group were presented with some ready-made engagement opportunities that they could take part in and also heard from a PhD researcher who has been involved in local and national activities.

The group came away with some key tips for being an engaging researcher.



### **EAO DTP Christmas Reception**

The EAO DTP Christmas Reception was held on 10th December 2015 at the Foresight Centre, Liverpool.

The event was a chance for all DTP students, supervisors and support staff to get together socially for an afternoon of seasonal music, mince pies and mulled wine—the festivities seemed to be a success!

The NCAS Introduction to Atmospheric Science course was held in November at Chancellor's Hotel, University of Manchester. Some 33 PhD students attended from 11 UK Universities, including five from Manchester and Liverpool, for a week-long course covering Weather systems, Atmospheric Composition and Climate science. This is one of a suite of courses provided by NCAS to support PhD training in the Atmospheric Sciences – see <https://www.ncas.ac.uk/index.php/en/education-and-staff-development> for further details. Student feedback was very favourable with both the venue and the lectures much appreciated.

## COMING SOON

- ◆ 2nd year DTP students will engage in a 2-day workshop delivered by Manchester Enterprise Centre in January
- ◆ 1st year DTP students will learn how to create a cracking poster and other activities at the Communications Workshop on 21st January
- ◆ 2nd year DTP students will soon learn about a workshop being put together by EPS Faculty at UoM, for some of the CDTs and the EAO DTP—all 2nd year students will be welcome to register regardless of institution. Here's a sneak peak:

### **Setting yourself up for success workshop 4 & 5 April 2016, Manchester**

Networking to develop and maintain contacts that could be useful in the future

Using social media for effective self-promotion

Co-coaching to use fellow PhDs at the same stage to help clarify what needed to be done

Decision-making to clarify career goals

Confidence-building as the research develops and their knowledge needs to be communicated

Stress management and PGR Wellbeing

- ◆ A committee of DTP students from across both cohorts are busy making plans for our 1st Annual DTP Conference on 19th & 20th July in Chester (venue tbc) - an invitation to DTP supervisors, students, associated partners and CASE partners will be circulated in the New Year. The committee also plan to open the invitation to successful applicants that will form the next intake.

**The DTP Management Board would like to wish you all a  
Merry Christmas and a Happy New Year**