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DEPARTMENT NEWS

INSIDE EAPS NEWSLETTER

Read all of the latest news in our department magazine, Inside EAPS, including Antarctica research, public outreach, and clean energy for hybrid vehicles. The latest version of Inside EAPS newsletter can be found here: https://goo.gl/47U9VP

BE SURE TO CHECK OUT ALL OF THE EAPS COMMUNICATIONS MEDIA!

Facebook
Twitter
Department Magazine
Website News

EAPS COLLOQUIA
C. Brenhin Keller
University of California, Berkeley
Geochronology candidate
February 8, 2018
3:30 PM
HAMP 1252

EAPS MEETINGS & EVENTS

CoS FACULTY MEETINGS
Feb. 13, 2018
3:30-4:30 PM
LWSN 1142

April 17, 2018
3:30-4:30 PM
TBD

EAPS FACULTY MEETINGS
Feb. 27, 2018
Mar. 27, 2018
3:00-4:30 PM
HAMP 3201

EAPS PRIMARY COMMITTEE MEETING
Apr. 3, 2018
3:00-5:00 PM
HAMP 3201

EAPS AWARDS BANQUET
Apr. 23, 2018
5:30 - 9:00 PM
Buchanon Club, Ross-Ade Pavilion

EAPS ALUMNI ADVISORY BOARD MEETING
Apr. 24, 2018
8:30 AM - 4:30 PM
HAMP 2201

http://www.eaps.purdue.edu/
EAPS OMBUDSMEN

What is an Ombudsman? The ombudsman are an informal, neutral, confidential resource for people in the department, especially students, to raise questions or concerns about any aspect of their academic experience.

The EAPS ombudsmen are Barbara Gibson (HAMP 2169B; barbara@purdue.edu) and Ken Ridgway (HAMP 3277B; ridge@purdue.edu) – please feel free to contact either of them if needed.

EAPS FACULTY/STAFF RESOURCE FUND

Guidelines:

The EAPS Faculty and Staff Resource Fund provides faculty and full-time, permanent staff with a simple, open, and transparent way to request resources they need to be productive in their work. This is not intended to replace other sources (e.g. grants, discretionary accounts, start-up, competitive programs on campus, and usual supplies and expenses), rather it is to meet occasional needs that are important for individual productivity and advancement in cases where these other sources are not available to an individual. Examples include professional development course tuition, office needs, and professional conferences.

Procedure:
Applications to the fund should be sent via email (as a pdf) to the Assistant Department Head. Requests must include the following items and not exceed one page.

- applicants name, position title, email address
- a detailed, one paragraph description of what is being requested
- a short explanation of how this will help the individual be productive in their work
- amount requested (this program will accept requests between $200 and $2,000)
- time constraints on what is being requested (e.g., a deadline for registration)

Request deadline is the 20th of each month. Decisions will be made by the 5th of the following month. All requests will be reviewed by a group including the Assistant Department Head, the Business Manager, and at least two members of the EAPS Executive Committee.

STUDENT NEWS

GRADUATE STUDENT EXPO DATES:
February 9, 2018
February 10, 2018

PURDUE UNDERGRADUATE RESEARCH CONFERENCE—NOW ACCEPTING PAPERS & ABSTRACTS

The Purdue Undergraduate Research Conference (formerly the Purdue Undergraduate Research Symposium) is scheduled for April 10, 2018 and they are now accepting papers and abstracts for oral presentations and posters at the conference. For the submission site and “How to” guide, visit: http://purdue.edu/undergrad-research. Please see attached flier for more details.

CROSSROADS GEOLOGY CONFERENCE
MARCH 23 & 24, 2018
INDIANA UNIVERSITY, BLOOMINGTON, INDIANA

Abstract Deadline: March 10, 2018!

The student members of the Rho chapter of Sigma Gamma Epsilon at Indiana University invite you to participate in the annual Crossroads Geology Conference at Indiana University. This conference is a student-organized event featuring research presentations by graduate and undergraduate students in the geological, atmospheric, and environmental sciences from a number of regional

http://www.eaps.purdue.edu/
colleges and universities, at Indiana University in Bloomington.

For more information, please see http://www.indiana.edu/~sgeweb1/

ENTERPRISE AND THE ENVIRONMENT SUMMER SCHOOL
July 1-13, 2018

The Smith School of Enterprise and the Environment at the University of Oxford. We would like to invite students at the Purdue department for earth, atmospheric and planetary sciences to apply for our Enterprise and the Environment Summer School which will take place from 1st - 13th July 2018 in Oxford. It is a summer school intended for undergraduates, as well as recent graduates passionate about leading environmental change in business, society and government. See attached for more information.

GLOBAL SCIENCE PARTNERSHIPS LEARNING COMMUNITY

Attention: all first year college of science students! See the attached flier for information about free dinners, trips, and activities that are designed to help you learn about other cultures…while having fun!

POC: Terry Ham: hamt@purdue.edu or globalsciencepartners@purdue.edu

BOILER WELLNESS E-NEWSLETTER

Please check out the attached January Boiler Wellness E-Newsletter. In it, you will find information about upcoming Mindfulness, Resilience and Crave Series, the Lunch and Learns, and the Crockpot Meals

2018 SUMMER RESEARCH EXPERIENCES FOR UNDERGRADUATES PROGRAM

The 2018 Summer Research Experiences for Undergraduates (REU) Program in climate change in semi-arid regions hosted by the Environmental Science Institute at the University of Texas at Austin. The program is currently in its 15th year, with 130 alumni, many of whom have presented the results of their REU research at national conferences and/or published in peer reviewed journals.

The program is aimed at rising juniors and seniors and open to students who are US citizens in good academic standing. We especially invite applications from members of traditionally underrepresented groups.

Please feel free to download the program flyer and share widely with students who may be interested in this program. Program information, including the online application, can be found on our website.

PURDUE TO ADD TWO-FACTOR AUTHENTICATION FOR ALL FACULTY AND STAFF DURING SPRING SEMESTER

Coming soon, all of Purdue’s faculty and staff will need to begin using two-factor authentication, known at Purdue as BoilerKey, to log into the new employee portal, SuccessFactors, improving security of personal and University data alike. Signup for BoilerKey is now ready for all Purdue employees at www.purdue.edu/boilerkey. Purdue faculty and staff can expect reminders to sign up in the form of direct emails, social media posts and Purdue Today articles to give instructions on how and where to sign up throughout the coming spring semester. The employee portal allows employees to create leave requests and check paystubs. It also handles many of the University’s business functions.

What is two-factor authentication?

http://www.eaps.purdue.edu/
BoilerKey adds a second login requirement to go with your password. At Purdue, it’s a numerical code randomly generated on a smartphone app called Duo or a key fob. Essentially, even if someone were to get ahold of your password (if you fall for a phishing email, for instance), your account would still be protected because only you can physically access your smartphone or key fob to get the necessary login code.

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**COS RESEARCH AWARDS**

Please see the attached flier for the February 20th CoS Research Awards with an abstract and bio information for each of the awardees. Please feel free to post these within departments or share with other colleagues from outside the College who might be interested in attending.

**PLEASE NOTE:** Location has been changed to STEW 214ABCD.

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**IMPORTANT NOTICE ABOUT THIS NEWSLETTER**

This newsletter is used as the primary information source for current and upcoming events, announcements, awards, grant opportunities, and other happenings in our department and around campus. Active links to additional information will be provided as needed. Individual email announcements will no longer be sent unless the content is time-sensitive. We will continue to include our publications, presentations and other recent news items as well.

Those using paper copies of the newsletter should go to our newsletter archive on the EAPS website at http://www.eaps.purdue.edu/news/newsletters.html and Click on News to access active links as needed. Material for inclusion in the newsletter should be submitted to Fallon McQuem (fmcquem@purdue.edu) by 5:00pm on Thursday of each week for inclusion in the Monday issue.

If it is in the newsletter, we assume you know about it and no other reminders are needed. For answers to common technology questions and the latest updates from the EAPS Technology Support staff, please visit: http://www.eaps.purdue.edu/resources/information_technology/index.htm

Also, as an additional resource for information about departmental events, seminars, etc., see our departmental calendar at http://www.EAPS.purdue.edu/events-calendar.html
ORNL Science Education & Workforce Development Virtual Career Fair

February 22
Noon-3 p.m. EST

Discover the variety of research opportunities offered at Oak Ridge National Laboratory, the Department of Energy’s largest science and energy lab!

Chat live with scientists and recruiters, explore program booths, and learn about the ORNL experience!

REGISTER TODAY!
Purdue Undergraduate Research Conference

NOW ACCEPTING PAPERS

ORAL PRESENTATIONS

PAPER DEADLINE: FEB. 7

POSTERS

ABSTRACT DEADLINE: FEB. 28

Conference: April 10, 2018

For the submission site and "How to" guide, visit...
purdue.edu/undergrad-research

Questions?
UGResearch@purdue.edu

purdu.edu/undergrad-research
ORNL Science Education and Workforce Development Virtual Career Fair: February 22, 2018

All times reflect Eastern Standard Times.

12:00 PM: Virtual Career Fair opens and recruiters are LIVE to chat from 12:00-3:00 pm.

12:00-1:00 PM: Dr. Jeremy Busby, Dr. Melanie Mayes, and Julie Ezold will be LIVE in the Meet an ORNL Mentor booth to chat.

- Dr. Jeremy Busby is the Division Director for the Materials Science and Technology Division in the Physical Sciences Directorate at ORNL. His contributions range from light water reactors to sodium reactors and space reactor systems as well as research in support of the ITER project.
- Dr. Melanie Mayes is an ORNL Senior Staff Scientist and Multi-scale Environmental Processes Team Leader with the Environmental Sciences Division and the Climate Change Science Institute.
- Julie Ezold has over 25 years of experience in the nuclear sciences and is currently the Californium-252 Program Manager. She is responsible for the technical aspects as well as the program management activities of each curium target campaign.

1:00-2:00 PM: Dr. Robert Duckworth and Marie Urban will be LIVE in the Meet an ORNL Mentor booth to chat.

- Dr. Robert Duckworth is a Senior R&D Staff Member in the Fusion and Materials for Nuclear Systems Division at Oak Ridge National Laboratory.
- Marie Urban is a Staff Scientist in the Geographic Information Science and Technology Group at ORNL. She is the Principal Investigator for the Population Density Tables (PDT) project and has been for the past decade.

2:00-3:00 PM: Dr. Erin Webb and Jay Billings will be LIVE in the Meet an ORNL Mentor booth to chat.

- Dr. Erin Webb is a Senior R&D Staff Member in the Environmental Sciences Division at Oak Ridge National Laboratory and Joint Associate Professor in the Department of Biosystems Engineering and Soil Science at the University of Tennessee.
- Jay Billings is a Research Scientist in the Computer Science Research Group of the Computer Science and Mathematics Division at ORNL. His research focuses on the design and implementation of modeling and simulation tools for energy science, a large part of which has been related to the study of scientific workflows in an HPC context.

3:00 PM: Virtual Career Fair closes
ENTERPRISE AND THE ENVIRONMENT
SUMMER SCHOOL
1 - 13 JULY 2018

UNIVERSITY OF OXFORD
Welcome to the Enterprise and the Environment
Summer School

I’m delighted to invite you to the Smith School’s Enterprise and the Environment Summer School in 2018 at the University of Oxford. The programme teaches from our strengths in environmental economics and policy, enterprise management, and financial markets and investment. We will explore critical global environmental challenges in the 21st century through a combination of rigorous science and diverse stakeholder engagement and the value of the environment to enterprise.

The Smith School of Enterprise and the Environment is a leading interdisciplinary academic hub focused upon teaching, research, and engagement with enterprise on climate change and long-term environmental sustainability. We work with social enterprises, corporations, and governments; we seek to encourage innovative solutions to the challenges facing humanity over the coming decades. Our work is complemented by close ties with the physical and social sciences, and especially the research and teaching of our parent department, the School of Geography and the Environment.

We are very excited to once again host this engaging Summer School and look forward to meeting you in Oxford in summer 2018.

Professor Gordon Clark
Director of the Smith School of Enterprise and the Environment

Key Information

Dates: 1 - 13 July 2018
Accommodation: Jesus College
Teaching Venue: Oxford University Centre for the Environment
Contact: summerschool@smithschool.ox.ac.uk
Early Bird Price: £2750 (for payments made prior to 31st May 2018)
Full Price: £3000 (for payments made after 31st May 2018)
Website: www.smithschool.ox.ac.uk/courses/summer_school/
A Summer School Designed, Delivered and Managed within Oxford University

During the Summer School you will explore research from Oxford on some of the most pressing questions for humanity, such as:

- How does climate change affect economic stability?
- How do financial markets drive long-term environmental decision-making?
- Is the 1.5 degree threshold of the Paris climate change agreement possible?
- How can we safeguard clean water for everyone?
- What is the future of energy markets?
- What can corporations do to protect biodiversity?

If you are interested in hearing the latest world-class thinking on these questions and in searching for answers, the Summer School is right for you.

The format of the programme will also include:

- Learning through a range of styles including ‘talk and chalk’, lectures, case studies, interactive activities, field trips, online simulations and small group sessions.
- Direct engagement with practitioners and industry professionals in the finance and corporate sectors in discussing environmental challenges from their perspective, reviewing case studies, and discussing gaps and opportunities for future work.

Oxford is no. 1 in the world for research quality

Most recent UK Research Excellence Framework (2014)

The Summer School will include 50+ teaching hours over 2 weeks

W: www.smithschool.ox.ac.uk/courses/summer_school/
E: summerschool@smithschool.ox.ac.uk
What Makes us Different to other Summer Schools?

Whilst many other summer schools operate in Oxford and hire University facilities only a small handful of University departments design, teach and manage their own summer programmes. The Enterprise and the Environment Summer School is one of these precious few and is aligned with the Smith School’s internal research and taught to the same standards as our year-round commitments at the University of Oxford. In addition, our small group work will enable you to have close contact and engage with our world-leading academics. This is not the case at many other summer schools in the UK but we believe that it is a vitally important part of helping students to understand the topic and engage personally with faculty in the same vein as teaching at Oxford would traditionally allow. Over the two weeks our Summer School will provide over 50 teaching hours.

Who Should Apply?

The Summer School is intended for the following:

- Those already studying related topics at an undergraduate level who would like to supplement their current studies, which may be in fields such as finance, management, economics, geography, politics, or the physical sciences.
- Those who are considering a Masters degree in a field related to the Summer School’s content and would like an introduction to key issues.
- Individuals who are undertaking a Masters degree in a similar area and would benefit from broadening their understanding within these subject areas.
- Young professionals and recent graduates who are working in roles at the intersection of the environment and enterprise.

We encourage learning as an opportunity for everyone so even if you don’t fit the criteria above then we strongly recommend that you still get in contact with us so that we can discuss your application.

Last Years Summer School in Numbers

- Students ranked their overall satisfaction on average 4.8 out of 5.0
- Students scored the organisation on average 4.9 out of 5.0
- Students rated the programmes value for money on average 4.8 out of 5.0
- Students from 13 different nationalities
- The average age in the classroom was 22
- The oldest student was 35 and youngest was 19
It was great how so much material from such a variety of disciplines was covered in two weeks at a pace that was accessible and enjoyable.
The Smith School of Enterprise and the Environment

The Smith School of Enterprise and the Environment (SSEE) was established in 2007 as an independent research centre of the University. In 2013, we joined the School of Geography and the Environment (SoGE), deepening our teaching programmes in collaboration with the broader department and its other research units, the Transport Studies Unit and the Environmental Change Institute.

The School of Geography and the Environment and its research institutes are internationally recognised for their excellence in environmental research and scholarship. The historical origins lie in the former School of Geography, the first geography school to be established in the UK, over 100 years ago by Halford Mackinder. The ethos of SoGE is to promote research that is bold, innovative and challenging while remaining committed to the highest standards of scholarship.

Oxford University

As the oldest university in the English-speaking world, Oxford is a unique and historic institution. There is no clear date of foundation, but teaching existed at Oxford in some form in 1096 and developed rapidly from 1167, when Henry II banned English students from attending the University of Paris.

Geography at Oxford was ranked the best in the world in 2016-2017 for the fourth year running

Times Higher Education World University Rankings 2016 17

W: www.smithschool.ox.ac.uk/courses/summer school/
E: summerschool@smithschool.ox.ac.uk
Summer School Directors

Professor Cameron Hepburn, Summer School Academic Director

Cameron Hepburn is an expert in environmental, resource and energy economics. He is a Professor of Environmental Economics at the Smith School and at the Institute for New Economic Thinking at the Oxford Martin School, and is also Professorial Research Fellow at the Grantham Research Institute at the London School of Economics and a Fellow at New College, Oxford.

He is involved in policy formation, including as a member of the DECC Secretary of State’s Economics Advisory Group. He has also had an entrepreneurial career, co-founding two successful businesses and investing in several other start-ups.

Cameron graduated with first class honours in law and chemical engineering (with a diploma in French) from the University of Melbourne, and proceeded on a Rhodes Scholarship to complete an M.Phil and D.Phil (Ph.D) in economics from the University of Oxford.

"This has been an experience I will never forget"

Summer School 2017 student

Dr Caitlin McElroy, Summer School Programme Director

Caitlin McElroy is a Departmental Research Lecturer and Director of Executive Education Programmes at the Smith School of Enterprise and the Environment. Her research has revolved around the interactions between the mining industry, environment, and development. She is currently developing a programme: Sharing Resource Prosperity that explores the improved environmental sustainability and development of resource driven economies. Her first degree is from the University of Pennsylvania in History and Environmental Studies (Hons) followed by an MSc in Nature, Society and Environmental Policy (Dist) from the University of Oxford. She holds a DPhil from the University of Oxford in Economic Geography that was funded through a Clarendon Scholarship.

Previous Contributors Included

Professor Gordon Clark
Dr Ben Caldecott
Dr Paul Jepson
Stephanie Mooij
Leo Johnson
Dr Michael Viehs
Dr Dustin Garrick
Dr John Feddersen
Professor Bob Hahn

Oxford is the first UK University to be no. 1 in the world
Times Higher Education World University Rankings 2016-17

W: www.smithschool.ox.ac.uk/courses/summer school/
E: summerschool@smithschool.ox.ac.uk
# Indicative Timetable: Week 1

The timetable below is to be treated as an example only, and is representative of the 2016 and 2017 iterations of the course.

<table>
<thead>
<tr>
<th>Day 1</th>
<th>Day 2</th>
<th>Day 3</th>
<th>Day 4</th>
<th>Day 5</th>
<th>Day 6</th>
</tr>
</thead>
<tbody>
<tr>
<td>09.30-11.00 Global Threats</td>
<td>09.30-11.00 Enterprise and the</td>
<td>09.30-11.00 Biodiversity and</td>
<td>09.30-11.00 Environmental</td>
<td>09.30-11.00 How to Write the</td>
<td></td>
</tr>
<tr>
<td>Prof. Gordon Clark</td>
<td>Environment</td>
<td>Conservation</td>
<td>Economics</td>
<td>Oxford Essay</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Prof. Gordon Clark</td>
<td>Dr Paul Jepson</td>
<td>Prof. Bob Hahn</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11.00 11.30 Break</td>
<td>11.00 11.30 Break</td>
<td>11.00 11.30 Break</td>
<td>11.00 11.30 Break</td>
<td>11.00 11.30 Break</td>
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</tr>
<tr>
<td>11.30-13.00 The Latest in the</td>
<td>11.30-13.00 Paris and the</td>
<td>11.30-13.00 Ecosystem Service</td>
<td>11.30-13.00 Behavioural</td>
<td>11.30-13.00 Responsible</td>
<td></td>
</tr>
<tr>
<td>Science of Climate Change</td>
<td>Economics of Climate</td>
<td>Dr Alex Teytelboym</td>
<td>Economics and Field Experiments</td>
<td>Investment Academic Activism</td>
<td></td>
</tr>
<tr>
<td>Prof. Myles Allen</td>
<td>Change</td>
<td></td>
<td>Prof. Bob Hahn</td>
<td>Dr Michael Viehs</td>
<td></td>
</tr>
<tr>
<td>13.00 14.00 Lunch</td>
<td>13.00 14.00 Lunch</td>
<td>13.00 14.00 Packed Lunch</td>
<td>13.00 14.00 Lunch</td>
<td>13.00 14.00 Working Lunch</td>
<td></td>
</tr>
<tr>
<td>14.00-15.30 Business and</td>
<td>14.00-15.30 Stress Nexus Game</td>
<td>14.00-15.30 Field Trip: Wytham</td>
<td>14.00-15.30 Introduction to</td>
<td></td>
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</tr>
<tr>
<td>Environmental Policy</td>
<td>Part I</td>
<td>Woods – Mapping the Ecosystem</td>
<td>Financial Markets and</td>
<td></td>
<td></td>
</tr>
<tr>
<td>“Surgery” Dr Caitlin McElroy</td>
<td>Prof. Cameron Hepburn</td>
<td></td>
<td>Long-term Investment</td>
<td></td>
<td></td>
</tr>
<tr>
<td>15.30 16.00 Break</td>
<td>15.30 16.00 Break</td>
<td>15.30 16.00 Break</td>
<td>Prof. Gordon Clark</td>
<td></td>
<td></td>
</tr>
<tr>
<td>16.00-17.30 Registration and</td>
<td>16.00-17.30 Stress Nexus Game</td>
<td>16.00-17.30 Field Trip: Wytham</td>
<td>16.00-17.30 Corporate</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Welcome</td>
<td>Part II</td>
<td>Woods – Experiments with</td>
<td>Environmental Management: Case</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Prof. Cameron Hepburn</td>
<td>EarthWatch</td>
<td>Study</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Dr Caitlin McElroy</td>
<td></td>
<td></td>
</tr>
<tr>
<td>17.30 Free Evening</td>
<td>17.30 Free Evening</td>
<td>17.30 Free Evening</td>
<td>17.30 Drinks Reception with</td>
<td></td>
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</tr>
<tr>
<td></td>
<td>17.30 Free Evening</td>
<td>17.30 Free Evening</td>
<td>the Smith School Team</td>
<td></td>
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</tr>
<tr>
<td></td>
<td>17.30 Free Evening</td>
<td>17.30 Free Evening</td>
<td>17.30 Free Evening</td>
<td></td>
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</tr>
</tbody>
</table>

W: www.smithschool.ox.ac.uk/courses/summer_school/
E: summerschool@smithschool.ox.ac.uk
## Indicative Timetable: Week 2

The timetable below is to be treated as an example only, and is representative of the 2016 and 2017 iterations of the course.

<table>
<thead>
<tr>
<th>Day 7</th>
<th>Day 8</th>
<th>Day 9</th>
<th>Day 10</th>
<th>Day 11</th>
<th>Day 12</th>
<th>Day 13</th>
</tr>
</thead>
<tbody>
<tr>
<td>09.30-13.30   Free Day  </td>
<td>09.30-11.00 Connecting Environmental Science to Decision Making</td>
<td>09.30-11.00 Stranded Assets Dr Ben Caldecott</td>
<td>09.30-11.00 Biofuel Policy: Silver Buller or Pandaro’s Box? Dr James Palmer</td>
<td>10.00-12.00 Assessment: Essay  </td>
<td>09.30-11.00 Where to From Here? Prof. Cameron Hepburn</td>
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</tr>
<tr>
<td><strong>Break</strong></td>
<td><strong>Break</strong></td>
<td><strong>Break</strong></td>
<td><strong>Break</strong></td>
<td><strong>Break</strong></td>
<td><strong>Break</strong></td>
<td><strong>Break</strong></td>
</tr>
<tr>
<td>11.00-13.00 Economic Approaches to Environmental Approaches Dr Dustin Garrick</td>
<td>11.30-13.00 ‘Oil Majors War Game’ Lucas Kruitwagen</td>
<td>11.30-13.00 Changing Energy Markets Dr John Feddersen</td>
<td>11.30-13.00 Finale with Certificates</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>13.00-14.00 Lunch</td>
<td>13.00-14.00 Working Lunch</td>
<td>13.00-14.00 Lunch</td>
<td>12.00-13.00 Lunch</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>14.00-15.30 Six Avenues to Building a Strong Agenda in Impact Investing Prof. Othmar Lehner</td>
<td>14.00-15.30 ‘Oil Majors War Game’ Lucas Kruitwagen</td>
<td>14.00-15.30 Finance, Society and Sustainability Nick Silver</td>
<td>13.00-14.30 A New Map of the Financial World Prof. Dariusz Wójcik</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>15.30-16.00 Break</td>
<td>15.30-16.00 Break</td>
<td>15.30-16.00 Break</td>
<td>14.30-15.00 Break</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>16.00-17.30 Interactive Session Prof. Othmar Lehner</td>
<td>16.00-17.30 ESG Case Study Stephanie Mooij</td>
<td>16.00-17.30 Study and Review Time Dr Caitlin McElroy</td>
<td>15.00-16.30 Corporate and NGO Dialogue: Industry Panel</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>19.00 BBQ at Cherwell Boathouse</td>
<td>17.30 Free Evening</td>
<td>17.30 Free Evening</td>
<td>19.00 Dinner in an Oxford College with a Guest Speaker</td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

W: www.smithschool.ox.ac.uk/courses/summer school/
E: summerschool@smithschool.ox.ac.uk
Learning and Experiences Beyond the Classroom

Oxford is a town oozing with history, culture, life and knowledge and is one of the UKs most beautiful cities. We will make sure that you have the chance to live, understand, learn and ultimately also have fun within it. Activities during the Summer School will include punting, meals in historic colleges, a BBQ at the Cherwell Boathouse, as well as a guided tour of the Bodleian Libraries and entrance to the Pitt Rivers Museum. You will experience the city through the lens of an Oxford student with your classmates and develop a global network of peers and connections for the future.

The City of Dreaming Spires

London is just an hour away by train and there are regular transport links to the city from Heathrow, Gatwick and Birmingham airports. The University of Oxford has no central campus; instead, most Colleges and departments are based in or near the centre, and are interspersed with shops, places to eat as well as cafes, pubs, theatres, museums and galleries.

Accommodation

A room will be reserved for all students at Jesus College, which is in the heart of the city centre. All bedrooms will be en-suites. Breakfast will be provided daily in the Dining Hall pictured to the left. The College was founded in 1571 and includes Harold Wilson, former British Prime Minister, as well as T.E Lawrence (Lawrence of Arabia), amongst its alumni. A communal study room and access to the college library will also be provided so that you can use your free time to reflect on the learning and also focus on any other projects which may be ongoing. WiFi is available throughout Jesus College.

Catering

Breakfast will be available daily, and some lunches and dinners will also be provided. We are able to cater for any dietary requirements you may have.

Extra Curricular Activities

We will also provide a weekend excursion to Blenheim Palace as pictured on the right. This is a UNESCO world heritage site right on our door step. Other activities will include field trips to Wytham Woods and the Botanic Gardens.

W: www.smithschool.ox.ac.uk/courses/summer school/
E: summerschool@smithschool.ox.ac.uk
Fees

A discounted early bird price of £2750 is available to all students who pay for the Summer School before 31 May 2018. For any payments made after this date the fee will rise to £3000.

In both instances these costs includes all teaching, social activities, accommodation and some meals. The fees do not include the travel to and from Oxford, visas, insurance or any personal expenses incurred.

Eligibility

Applications will be considered for their overall strength and individual merit, however all applicants must meet one of the following English language requirements:

- English speaker;
- Experience of studying in an undergraduate or postgraduate level course in English in the last three years; or
- Achieving a minimum score in recognised English Language tests

Applying

Please complete an online application form at our website www.smithschool.ox.ac.uk/courses/summer-school/.

Applications will be assessed, and places awarded on an ongoing basis. Our courses frequently sell out so we strongly encourage you to apply early.
Designed, delivered and managed within Oxford University

Dinners in classic, historical dining rooms across Oxford

En-suite accommodation at a traditional Oxford College in the heart of the city centre

Teaching from world leading academics working at the forefronts of their fields

A global network of peers at the intersection of enterprise and the environment

Access to an Oxford University library 24/7 and a communal study space just for Summer School students

Cultural excursions and field trips including Blenheim Palace, walking tours, punting and botanical

Discounted admission price until 31 May 2018

W: www.smithschool.ox.ac.uk/courses/summer school/
E: summerschool@smithschool.ox.ac.uk
CIMMS Peter Lamb Postdoctoral Fellowship

The Cooperative Institute for Mesoscale Meteorological Studies (CIMMS) at the University of Oklahoma is seeking excellent candidates for the newly established, prestigious Peter Lamb Postdoctoral Fellowship. CIMMS is a research organization that promotes collaborative research between the National Oceanic and Atmospheric Administration (NOAA) and University of Oklahoma (OU) scientists on problems of mutual interest to improve basic understanding of mesoscale and storm-scale meteorological phenomena, weather radar, and regional climate to help produce better forecasts and warnings that save lives and property.

Research scientists within CIMMS use observations, analysis and models to improve the understanding and prediction of high-impact weather elements and systems and climate anomalies ranging in size from cloud nuclei to multi-state areas.

Although the position is not project-specific, proposals for the CIMMS Postdoctoral fellowship should address at least one of CIMMS’ research themes: 1) weather radar research and development; 2) storm-scale and mesoscale modeling research and development; 3) forecast improvements research and development; 4) impacts of climate change related to extreme weather events; and 5) societal and socioeconomic impacts of high-impact weather systems (please visit the CIMMS website cimms.ou.edu for more information on these research themes). Those applying for the fellowship are expected to make contact with potential mentors (potential mentors and projects are listed at http://cimms.ou.edu/index.php/fellowshipinformation/) before writing a research proposal and should seek their guidance when drafting a proposal.

Terms of appointment are for one (1) year, renewable for a second year subject to satisfactory performance. An annual salary of $60,000 and a research budget of up to $5,000 per year is included in the award, along with a modest relocation stipend. Successful applicants must have obtained a Ph.D. within the last five years; proof of a Ph.D. is required before assuming the post-doctoral position, but those in the final stages of dissertation completion of their Ph.D. are encouraged to apply.

Applicants are asked to submit electronically: (1) a curriculum vitae; (2) a list of all products (e.g., papers, patents, technology transfers, licensed software, etc.) generated over the course of their career; (3) a cover letter which includes the expected start date, the name(s) of the proposed CIMMS mentor(s), and any non-standard resources that might be needed to complete the proposed work; (4) a brief proposal (no more than 4 pages, double-spaced, excluding the list of references and figures) describing the work to be pursued during a 2-year tenure at CIMMS; and (5) a list of four references. In addition, applicants should request that their referees directly send their reference letters to CIMMS and also request a letter of support from the proposed CIMMS mentor be submitted.

To receive full consideration, applications and supporting material should be received prior to March 5, 2018. All materials should be sent electronically to: Tracy Reinke, Executive Director Finance and Operations, Cooperative Institute for Mesoscale Meteorological Studies (CIMMS), 120 David L. Boren Blvd, Norman, OK, 73072, treinke@ou.edu, ATTN: Peter Lamb Postdoctoral Fellowship.
Dor Ben Amotz  
Professor of Physical Chemistry

Water-Mediated Interactions

Water-mediated interactions play a central role in biological self-assembly, as well as medicinal, environmental, and materials chemistry. And yet, the magnitudes, and in some cases even the signs, of such interactions have not been experimentally measured. In order to do so, we use hydration-shell vibrational spectroscopy to quantify solute-induced changes in water structure and the associated size dependent crossover phenomena, as well as to measure the free energy driving forces that lead to the water-mediated aggregation and self-assembly of oily, polar, and ionic molecules.

Bio: Dor Ben-Amotz was born in Jerusalem, grew up in Berkeley, earned a bachelors degree from Bennington College, and a PhD from UC Berkeley, before serving as a postdoctoral fellow at Exxon. He came to Purdue as an assistant professor in 1989, where he received awards including an NSF Presidential Young Investigator award and an ONR Young Investigator Program Award, as well as a Charles B. Murphy Outstanding Undergraduate Teaching Award. His research activities include experimental laser spectroscopy, liquid theory, and optical instrument design, as described in over 180 papers, 9 patents, and a textbook entitled Understanding Physical Chemistry.
Ananth Grama  
Professor of Computer Science

Models, Methods, and Software for Single Cell Transcriptomic Data Analyses

Single-cell transcriptomic data has the potential to radically redefine our view of cell type identity. Cells that were previously believed to be homogeneous are now clearly distinguishable in terms of their expression phenotype. Methods for automatically characterizing the functional identity of cells, and their associated properties, can be used to uncover processes involved in lineage differentiation as well as sub-typing cancer cells. They can also be used to suggest personalized therapies based on molecular signatures associated with pathology. We present a new framework, called ACTION, to infer the functional identity of cells from their transcriptional profiles, classify them based on their principal functions, and reconstruct regulatory networks that are responsible for mediating their identity. Results from using ACTION to sub-type cancer cells in Melanoma patients reveal novel biomarkers along with their underlying regulatory networks and drug response.

(Work with Shahin Mohammadi, Vikram Ravindra, and David Gleich)

Bio: Ananth Grama is a Professor of Computer Science at Purdue University and Associate Director of the Center for Science of Information (a Science and Technology Center of NSF). His primary areas of interest are parallel and distributed computing, large scale data analytics, and applications. He received his Ph.D. from the University of Minnesota in 1996, his M.S. in Electrical and Computer Engineering from Wayne State University in 1990, and his B. Engg. in Computer Science from the Indian Institute of Technology, Roorkee in 1989. He directed the Computational Science and Engineering and Computational Life Sciences programs at Purdue from 2012-16, and Chaired the Biodata Management and Analysis (BDMA) Study Section of National Institutes of Health from 2012-14. He is a recipient of the National Science Foundation CAREER award (1998), University Faculty Scholar Award (2002-07), is a Fellow of the American Association for the Advancement of Sciences (2013), and a Distinguished Alumnus of the University of Minnesota (2015).
From a variety of observations spanning all cosmological time-scales and length-scales, we do know that most of the mass in the Universe is in the form of Dark Matter. Even some properties of Dark Matter are known, and yet, we have no idea what this Dark Matter actually is made of. Prof. Lang works on experiments to try and discover Dark Matter particles. One particularly promising avenue is with the XENON detectors, located in an underground laboratory in Italy and operated by an international collaboration. Another comes from exploiting the unique properties of liquid xenon-based detectors as single-electron detection devices. Prof. Lang’s particular focus is on unconventional signatures from new particles that might have been overlooked in the standard analyses. This presentation will give an insight into his search for the unknown: How do we know that Dark Matter exist? How can we try to find Dark Matter particles? And what new opportunities present themselves as these experimental programs go forward?

Bio: Rafael Lang completed his undergraduate work at the University of Ulm, Germany; Monash University Melbourne Australia; and at the DESY Zeuthen, Germany. He graduated in 2005 with a Diplom searching for neutrinos with the AMANDA experiment at South Pole. His PhD 2008 is from the Technical University Munich, Germany, for his work at the Max Planck Institute of Physics on the CRESST dark matter search experiment. He then moved for a Postdoc to Columbia University New York, on the XENON100 dark matter search experiment, until 2011. Rafael is at Purdue since 2011 (Associate since 2017) leading the Purdue dark matter group. The group holds hardware and analysis responsibilities on the XENON dark matter search experiments, has co-founded a new effort to search for dark matter signals at the single-electron quantum limit, and runs an active laboratory effort to develop relevant technologies further.
Global Weather Corporation  
3005 Sterling Circle, Suite 201  
Boulder, CO 80301  
www.globalweathercorp.com

Position Description: Meteorological Analyst

Position Summary
The GWC Meteorological Analyst reports to the CTO and works closely with fellow GWC meteorologists, scientists, IT personnel, and the GWC sales team. The Analyst fulfills a customer-facing technical role by configuring and deploying forecasts for new and existing customers, monitoring forecast performance, and responding to forecast delivery/quality issues should they arise. The successful candidate is comfortable interfacing directly with customers while simultaneously working closely with GWC’s technical team. The candidate will be well-versed in meteorology, meteorological data and applications, high-level programming languages, and the Linux environment. This is an entry-level position, but qualified candidates will demonstrate a strong desire to learn new skills and, as needed, develop new scripting tools to fulfill customer requests and improve forecast service delivery and scalability.

Key Responsibilities
- Develop in-depth knowledge of GWC’s multiple forecast platforms, including how to configure new customers, forecast sites, and resolve forecast quality issues.
- Work closely with new and existing customers to add forecast sites, respond to requests, and educate prospective customers on GWC forecast products.
- Provide operational customer support to avoid critical issues and service downtime.
- Regularly update and monitor GWC’s customized/customer-specific forecast offerings such as regional (ISO-wide) renewable energy forecasts.
- Develop scripts to improve forecast products, verification techniques, and to advance R+D goals.

Requirements
- BS or MS degree in meteorology, atmospheric or computer science, or related field.
- Experience with common meteorological principles, applications, statistical analysis, and data formats such as netCDF and GRIB.
- Strong knowledge of the Python programming language.
- Knowledge and experience working in the Linux environment.
- Excellent communication skills and ability to interact directly with customers and translate customer feedback into concrete steps for product improvement.
- Ability to work independently and as part of a team, to contribute to technical discussions while also showing initiative to offer new ideas for product development.

Additional desired skills
- Experience in additional programming languages, especially: C++, HTML, JavaScript, SQL.
- Experience in numerical weather prediction and/or NWP post-processing techniques.
- Familiarity with shell scripting techniques.
- Experience in wind and solar power generation forecasting.

Apply: Please submit a resume and cover letter to jobs@globalweathercorp.com, addressed to William Gail, Chief Technology Officer.