



# EXTREME WEATHER EVENT

**SATURDAY 5 MARCH 2016**  
AT THE FORUM  
UNIVERSITY OF EXETER

## PROGRAMME

EXTREME WEATHER AND YOU

**11:00 TO 17:00**

A QUESTION OF EXTREMES

**19:00 TO 21:30**



**Thanks to our partners for their support  
and collaboration, without which this  
event would not have been possible:**



**All our wonderful volunteers from the University of Exeter, the Met Office and WAM who helped organise and run the event.**

**If you fancy getting involved yourself, fill in the slip at the back of this programme and we'll get in touch. We're always looking for volunteers and have some great opportunities to get involved.**

## **Welcome to an action packed day of talks, workshops and interactive activities!**

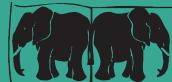
Please find today's full programme on the centre pages of this booklet. Go along to as many or as few of our events as you like. The day is organised so that talks and workshops on weather and climate start on the hour, and that a talk runs in parallel with a workshop. Workshops are in Seminar Room 7, and talks in Seminar Room 8. They both run for 45 minutes allowing plenty of time to go to the next talk or workshop if you wish. Our Double Elephant print workshops take place in Seminar Rooms 10.00 and 11.00. Drop in anytime to make your own print. There will also be a rolling programme of activities on the Mezzanine. Come along to these any time. In the main Auditorium a brand-new Met Office produced short film on the 2013/14 floods and storms is showing on the half hour every half hour.

Over lunchtime between 13.00 and 14.00 the Met Office Choir will regale us with a medley of weather related music in the Forum Street. Grab a sandwich and listen to some lovely music. Our art workshops carry on during the lunch hour, too, so you won't miss out.

And don't forget the evening event exploring the role of climate change in extreme weather, led by Helen Czerski and a panel of leading local experts from the Met Office and the University of Exeter. There is still time to get your tickets at the registration desk.

At WAM – Weather Art and Music we believe that art and science share a great deal more than might commonly be thought. Weather has been inspiring artists and musicians for generations and we want to build on that fascination. So there is a lot of fun to be had with all things weather! And while climate change can seem difficult and gloomy, we know there is plenty of hope if we can harness our creativity to tackle the problems it presents.

# Printmaking Workshops



DOUBLE  
ELEPHANT  
PRINT WORKSHOP

**Seminar Rooms 10 and 11, 11.00 to 16.00. Drop in anytime.**

A picture paints a thousand words – make a print and let your imagination soar, and create your own picture of weather, climate change and what it means to you. And along the way, explore a new skill – for free!

Double Elephant Printmaking Workshop is a Community Interest Company of Exeter-based artists passionate about the endless possibilities of printmaking. They are expert workshop leaders who will show you how to create your own original prints, from idea to finished picture.



You don't need to be good at drawing, or painting, you don't need any experience at printmaking – you just need to come along and start to play around with shapes and colours, and hey presto! You'll have a original print to hang up in our Gallery, and one to take home with you to remind you of your day at the Extreme Weather Event.

An experience for children and adults alike. All materials included and washable inks are used throughout.

To arrange a workshop contact Fiona Lovell at [outreach@doubleelephant.org.uk](mailto:outreach@doubleelephant.org.uk)

# The Weather Fair



## Mezzanine, 11.00 to 17.00

Activities for all ages – play climate roulette and learn about the likelihood of extreme weather happening, or play with weather forecasting imagery in our Weather Photo Booth. Our friendly STEM Ambassadors from the Met Office, the Royal Meteorological Society and the Institute of Physics will entertain you and show you some fascinating and fun stuff about weather and climate. Just rock up and play!



### Particulart

Discover artist Clare Bryden's gently subversive 'craftivism' and come into her atmospheric chemistry tent to knit a carbon dioxide atom and enjoy a moment of quiet making amid the hubub of our Weather Fair.

## Back to the Future: The Stormy Winter of 2013/14

A brand-new Met Office produced short film looking back at the storms and floods that hit the South-West in 2013/14, and looking forward and further afield to what may happen in the future given our changing climate. Featuring dramatic footage from the Met Office archive.

### The Auditorium

**11.00 to 16.30 (last showing)**

on the hour and the half hour

## Lunchtime Concert The Met Office Choir

The Met Office Choir will entertain you while you have your lunch with a selection of weather-related songs from their repertoire.

## Forum Street, 13.15 to 13.45

# Programme listing

## Talks

Seminar Room 8

**11.00**

### **Can we live with a warmer planet?**

How might we adapt to potential changes in food production, fresh water availability, threats to settlements and extreme temperatures at the limits of human tolerance?

Prof Richard Betts, Met Office and University of Exeter

**12.00**

### **Let's Talk Weather!**

How do we forecast extreme weather and communicate these events to the general public?

Prof Liz Bentley, Chief Executive, Royal Meteorological Society

**14.00**

### **Climate change conversations in our local communities**

Exploring present and future risks

Dr Ewan Woodley, University of Exeter

**15.00**

### **El Nino: What it means to us**

How does this year's El Nino affect climate, not just globally, but here in Devon?

Prof Matt Collins, University of Exeter

**16.00**

### **Climate Change Controversies**

Why is climate change such a hotly debated topic?

Prof. Stewart Barr, University of Exeter

## **Double Elephant printmaking workshops**

Our workshop is open from 11am to 4pm. Drop in anytime.

## **The Weather Fair**

**11.00 to 17.00** – Science activities for the whole family

## Workshops

Seminar Room 7

11.00

### **The Crediton Project**

How one Devon community talks about climate change

Dr Ewan Woodley and Prof Stewart Barr, University of Exeter

12.00

### **A Day in the life of the Met Office**

What goes on inside the Met Office's nerve centre on Fitzroy Road?

Dr Robert Dunn and colleagues, Met Office

14.00

### **The Met Office Next Generation**

What's it like to be an early career scientist?

Dr Robert Dunn and colleagues, Met Office

15.00

### **From Talking to Doing**

How do we act on climate change?

Dr Ewan Woodley, University of Exeter

16.00

### **Climate change, storms and extremes:**

What we might expect in the UK and why

Dr Matt Hawcroft, University of Exeter

## **Back to the Future: The Stormy Winter of 2013/14**

Met Office produced short film, shown in the Forum Auditorium

**From 11.00, every half hour until 16.30 (last showing)**

## **The Met Office Choir**

**Lunchtime Concert: The Met Office Choir**

**Forum Street, 13.15 to 13.45**

# Our Speakers and Workshop Leaders

## **Prof. Liz Bentley**

Prof. Liz Bentley is Chief Executive of the Royal Meteorological Society. She has had a distinguished career in meteorology and is often heard in the media and in public events talking about all aspects of the weather. She is a Visiting Professor at the University of Reading.

## **Prof. Mat Collins**

Prof. Mat Collins is Joint Met Office chair in Climate Change at the University of Exeter. He is an expert in the El Nino Southern Oscillation, its global impacts, and how it is changing with global warming. Matt will be presenting a fascinating insight into how an ocean current on the other side of the world affects our weather in Devon.

## **Prof. Richard Betts**

Prof. Richard Betts is a climate scientist at the Met Office and Chair in Climate Impacts at the University of Exeter. He is an expert in the impacts of climate change and leads a project to understand what worlds would look like that are two or four degrees celsius warmer than pre-industrial temperatures.

## **Dr. Ewan Woodley**

Dr. Ewan Woodley is a lecturer in Geography at the University of Exeter. He specialises in climate change, natural hazards and public understandings of risk and resilience. He is a member of WAM and co-organiser of the Extreme Weather Event

## **Dr. Robert Dunn**

Dr. Robert Dunn is a climate scientist at the Met Office Hadley Centre. He develops observational datasets for the study of climate extremes and how they are changing.

## **Prof. Stewart Barr**

Prof. Stewart Barr is Professor of Geography at the University of Exeter. He carries our research into sustainable development and community resilience to environmental change.

## **Paula Youens**

Paula Youens had a career as a professional illustrator for major publications before moving to Devon and becoming a director of Double Elephant. Paula's work is exhibited widely both at home and abroad.

## **Dr. Matt Hawcroft**

Dr. Matt Hawcroft is a Research Fellow in Exeter Climate Systems.

His current work involves evaluating large-scale controls on African climate with a specific focus on the global sources of regional bias in climate models, such as the global energy budget and regional/global SST biases.

## **Felicity Liggins**

Felicity Liggins is a scientist at the Met Office. She works with health and government customers, as well as commercial clients, providing bespoke interpretation of climate change science. She also works in various ways with the public sharing her love of weather and climate science in a wide range of contexts including for example at the Green Man Festival.

## **Clare Bryden**

Clare Bryden is an artist, writer and freelance website developer based in Exeter. Her interests are primarily in how human beings affect and are affected by the natural world of which we are part, and the related theology and psychology of connectedness.

Her creative practice springs from her desire to communicate environmental and social issues, her need for hope and energy in keeping on keeping on, and her habit of making connections, especially between sciences and art, and finding patterns.

## **Amanda Sabin**

Amanda Sabin, has a degree in Fine Art and has run workshops both in the studio and as an outreach tutor for many years.

## **Fiona Lovell**

Fiona Lovell did a Fine Art degree as a mature student and is the outreach Coordinator and print tutor for Double Elephant.

## **Alice Wimberley**

Alice Wimberley has a degree in Print Making and is an outreach tutor for Double Elephant.

# A Question of Extremes

**7pm to 9.30pm, the Forum Auditorium**

## **A Question of Extremes – how is our climate changing?**

Presented by Dr Helen Czerski and Dr Peter Stott

An entertaining journey through the science of weather and climate, from the global to the local perspective.

## **Climate Change Question Time**

Chaired by Prof Paul Hardaker, Chief Executive of the Institute of Physics

Put your questions to our panel and discuss with them what climate change and extreme weather mean for you and your community.

### **The panel:**

Dr Helen Czerski

Prof Dame Julia Slingo OBE FRS, Chief Scientist of the Met Office

Prof Peter Cox, University of Exeter

Prof Neil Adger, University of Exeter

There will be a 20 minute interval between A Question of Extremes and Climate Change Question Time.

### **This is a ticketed event**

**Tickets are £11 (£8) plus booking fee, available in advance from the Exeter Phoenix Box Office in Gandy Street. Visit the Box Office in person or call 01392 667080, or book online at [www.exeterphoenix.org.uk](http://www.exeterphoenix.org.uk)**

**On the day, you can buy your ticket from our registration desk in the Forum Street, and on the door in the evening (Please note we are unable to take cards, cash purchases only).**

# Our presenters and panellists

## Dr. Helen Czerski

Dr. Helen Czerski is one of Britain's leading science communicators. She is a physicist based at University College, London, and she has presented many science programmes for the BBC. Her scientific research is into ocean bubbles and their influence on the atmosphere. She presented a programme on the science of bubbles for the BBC and she has presented programmes on many other aspects of science including on extreme weather and climate change.

## Dr. Peter Stott

Dr. Peter Stott is a climate scientist at the Met Office Hadley Centre, specialising in the observations and understanding of past climate variability and change. He is particularly interested in the question of how extremes of weather and climate are changing with global warming and co-edits an annual report that looks back at extreme events of the previous year and puts them into the context of climate variability and change. He has worked on the reports for the Intergovernmental Panel on Climate Change and has often been asked to talk about his science and its implications for radio and television programmes. Peter is a founding member of WAM.

## Prof. Paul Hardaker

Prof. Paul Hardaker is Chief Executive of the Institute of Physics. Before taking up this position in 2012 Paul was Chief Executive of the Royal Meteorological Society and before that worked for many years at the Met Office. He is one of the founding members of WAM and chaired a very lively Climate Change Question Time at the first WAM festival in Reading in 2012.

## Prof. Dame Julia Slingo, OBE FRS

Prof. Dame Julia Slingo OBE FRS is the Chief Scientist at the Met Office. She is a world leading expert in tropical climate variability and cumulus convection, its influence on the global climate and its role in seasonal and decadal climate prediction. She has led the development of a new generation of high resolution climate models. She leads the development of the scientific strategy at the Met Office, provides advice to government, and is often asked to talk about weather and climate science and its implications by the media.

## Prof. Peter Cox

Prof. Peter Cox is Professor of Climate System Dynamics at the University of Exeter. His research into carbon cycle feedbacks, the process which can lead natural vegetation to release more carbon to the atmosphere and therefore exacerbate climate change, has led to some very high profile scientific publications. He has appeared in a number of television documentaries on climate change including with Sir David Attenborough.

## Prof. Neil Adger

Neil Adger is Professor of Human Geography. He teaches, supervises graduate students, and researches in the areas of environmental geography, ecological and institutional economics, and global environmental change. Neil is on the list of social scientists in ISI Highly Cited Researchers, one of the few geographers whose work is widely cited across the disciplines. He is a member of the Resilience Alliance, a global network of leading scientists and social scientists working on theory and practice of resilience of social-ecological systems for sustainability.

**Become a member of the WAM Special Interest Group (SIG) of the Royal Meteorological Society and enjoy exclusive updates on WAM activities and events, as well as great volunteering opportunities.**



## **MEMBERSHIP IS FREE.**

Simply complete the slip below, tear off this page and leave it in the WAM SIG letterbox at the registration desk and we will email you with regular news updates and information on special interest group activities.

**Name** \_\_\_\_\_

**Address** \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Email** \_\_\_\_\_

### **PLEASE TICK WHAT APPLIES:**

I'd just like information on future activities

I'd like to get involved