

Programme CAPER: 4 – 6 April 2016, Bangor.
Management Centre, Bangor University, Room D0:08

Monday 4th April.

12.30: Registration and lunch

13.30: Excursion to ozone solardomes and field release system, followed by Conwy catchment

17.30: Return to Management Centre

19.00: Dinner

Tuesday 5th April.

Chair: Gina Mills

09.00: Welcome by local hosts Gina Mills and Harry Harmens, and by CAPER Chair Nancy Dise

09.15: Keynote presentation by Jon Storkey (Rothamstad Research) - Recovery of the Park Grass experiment from long-term nitrogen addition

10.00: Ulli Dragotis - Historic trends in N and S deposition in the UK - 1800 to present

10.20: Discussion

10.30 – 11.00: Coffee/tea

Theme: Air pollution impacts on vegetation and biodiversity

Chair: Felicity Hayes

11.00: Katrina Sharps (CEH) – Field-based evidence of ozone impacts on vegetation: an update

11.20: Harry Harmens (CEH) - Impacts of ozone on biodiversity: mapping habitats at risk

11.40: Yunhai Zhang (Lancaster University) - Quantifying the magnitude of species richness and turnover on ecosystem productivity by the rate of N inputs

12.00: Ed Rowe (CEH) - What use are predictions of biodiversity responses to air pollution?

12.20: Discussion

12.30 – 13.30: Lunch

Theme: Policy (1)

Chair: Simon Bareham

13.30: Jane Hall (CEH) – Long-term trends in exceedance of critical loads for UK designated sites

13.50: Chris Field (Manchester Metropolitan University) - An application of dynamic modelling to produce site-specific critical loads

14.10: Nancy Dise (CEH) – Policy recommendations from the PEATBOG project

14.30: Rob Kinnersley (Environment Agency) - Impact of recent findings on development of regulations

14.50: Discussion.

15.00 – 15.30: Coffee/tea

Theme: Policy (2)

Chair: Nancy Dise

15.30: Susan Zappala (Natural England) - Translating policy into action for Air Quality: A Natural England Perspective

15.50 Simon Bareham (Natural Resources Wales) – Developing a Natural Resources Management approach to air quality in Wales to protect sensitive habitats

16.10 General policy discussion

16.40: Short presentations (3 min + 3 min discussion):

Simon Peacock (Newcastle University) – N Emissions from Cockle Park Farm at Palace Leas Experimental Grassland Plots
Catharine Pschenyckyj (University of Reading, CEH) – Attributing biological controls on recent changes in carbon cycling in organic soils
Sam Tomlinson (CEH) – Historic sulphur deposition: long-term trends
Ed Carnell (CEH) – Cumulative N deposition in the UK - a historic perspective
Gina Mills (CEH) - Preparations for the ozone critical level workshop, autumn 2016, Spain

17.30: Adjourn

19.00: Dinner

Wednesday 6th April.

Theme: Ozone impacts on wheat at different scales

Chair: Simon Peacock

09.00: Felicity Hayes (CEH) - Impacts of rising background and peak concentrations of ozone on wheat

09.20: Stephanie Osborne (SEI – York University, CEH) - Response of a European wheat cultivar to ozone exposure and drought, and applications for crop yield modelling

09.40: Gina Mills (CEH) - Quantifying the threat to global wheat production and quality from ozone pollution

10.00: Discussion.

10.10 – 10.40: Coffee/tea

Theme: Pollutant impacts on ecosystem services

Chair: Simon Caporn

10.40: Isabel Rogers (Lancaster University) - The indirect effects of atmospheric nitrogen deposition on carbon storage in grasslands: a mesocosm experiment

11.00: Divya Pandey (SEI - University of York, CEH) - Understanding the impacts of ground-level ozone on soil carbon sequestration in croplands

11.20: Netty van Dijk (CEH) – What does adding nitrogen to a bog do to the soil water?

11.40: Laurence Jones (CEH) - A framework for assessing heavy metal impacts on ecosystem services

12.00: Closure of the meeting

12.15: Lunch and departure