CAPER 2004

COMMITTEE ON AIR POLLUTION EFFECTS RESEARCH

Close House, Newcastle 5th – 7th April 2004

Programme

Monday 5th April

Registration at Close House*

- 13:00 Buffet lunch at Close House
- 14:00 Tour Close House Facilities
- 15:30 Break
- 16:00 Supporting U David MacKay: Troubleshooting O₃ Monitors
- 17:30 'Newcastle University: New Initiatives/Research Directions'
- 18:00 Cocktail bar (drinks to be purchased)/Croquet
- 19:00 Evening Meal
- 20:30 Departure to Castle Leazes Halls, Central Newcastle (Minibus transfer)
- 21:00 Halls Bar until 23:00

*Transport can be arranged if Jeremy is alerted in advance j.d.barnes@newcastle.ac.uk

Tuesday 6th April

0810 0900	Depart Halls to Close House (minibus – no return until after Conference Dinner) Morning Refreshments		
0920	Chairman - Jeremy Barnes Pot pourri session (for anyone to raise issues of interest - 1 or 2 overheads max if required)		
0945	Holly Smith (Newcastle University)	INCORPORATION OF OZONE DETOXIFICATION INTO FLUX MODELS	
1005	Iker Hernández (Newcastle University & Universitat de Barcelona)	APOPLAST REDOX STATUS: A NEW PERSPECTIVE ON PLANT DEFENCE RESPONSES	
1025	Colin Gillespie (Newcastle University)	QTLS GOVERNING OZONE IMPACTS ON WHEAT YIELD	
1040	Anne Borland (University of Newcastle)	IS OXIDATIVE STRESS A KEY SIGNAL UNDERPINNING ACCLIMATION TO SALINITY IN THE ICE PLANT?	
1100	Coffee		
1130	Chairman - David Fowler Jeremy Barnes (Newcastle University)	ESTABLISHING THE FUNCTIONAL SIGNIFICANCE OF HAP5c IN OXIDATIVE DEFENCE AND REPAIR PROCESSES	
1150	Johan Uddling (Göteborg University)	BIOMASS REDUCTION OF JUVENILE BIRCH IS MORE STRONGLY RELATED TO STOMATAL UPTAKE OF OZONE THAN TO INDICES BASED ON EXTERNAL EXPOSURE	
1210	Satoshi Ishii (Imperial College)	RESPONSES OF LOCALLY GROWN MALAYSIAN RICE CULTIVARS (<i>ORYZA SATIVA</i> , L.) TO AMBIENT AND INCREMENTED O3 LEVELS IN OPEN TOP CHAMBERS AND GREENHOUSE CHAMBERS	
1230 1300	Discussion Lunch	hot finger food, quiche and sandwiches	
1400	Chairman - Sally Power Felicity Hayes (CEH Bangor)	OZONE SENSITIVITY IN UPLAND VEGETATION	
1420	Mike Ashmore (University of Bradford)	LONG-TERM SIMULATION OF IMPACTS OF NITROGEN DEPOSITION ON HEATHLANDS AND MOORLANDS IN THE UK	
1440	Deirdre Wilson (Manchester Metropolitan University)	THE IMPACTS OF ELEVATED NITROGEN DEPOSITION AND ENVIRONMENTAL STRESS ON THE FLORA AND NITROGEN CYCLING OF A LOWLAND HEATH	
1500	Emma Green (Imperial College, London)	THE EFFECT OF NITROGEN DEPOSITION ON HEATHLAND SYSTEMS	

1520	Paul Horswill	THE EFFECTS OF ATMOSPHERIC NITROGEN
	(University of Sheffield)	DEPOSITION ON THE SOIL CHEMISTRY AND SPECIES
	•	COMPOSITION OF SEMI-NATURAL ACIDIC AND
		CALCAREOUS GRASSLANDS
1540	Laurence Jones	ATMOSPHERIC NITROGEN INPUTS TO A SAND DUNE
	(CEH Bangor)	SYSTEM IN SOUTH WALES, IN CONTEXT OF THE WIDER NITROGEN BUDGET FOR THE SITE
1600	Break	
	Chairman - Neil Cape	
1620	Jennifer Carfrae	COMPARISON OF THE IMPACTS OF TWO
	(CEH Edinburgh)	ATMOSPHERIC NITROGEN SPECIES ON CALLUNA
	-	VULGARIS (L.) ECO-PHYSIOLOGY
1640	Simon Caporn	RELEVANCE OF NITROGEN EXPERIMENTS ON
	(Manchester Metropolitan University)	HEATHER MOORLAND FOR THE BRITISH UPLANDS
1700	Nigel Bell	A STUDY OF THE LICHENS IN LONDON UNDER
	(Imperial College, London)	CONTEMPORARY ATMOSPHERIC CONDITIONS (2002- 2003)
1720	Poster Session	

- 1800 Pre dinner drinks/Committee Meeting
- 1915 *Conference Dinner*
- 2130 Departure to Leazes Halls: Minibus Transfer
- 2200 Arrival halls late bar

Conference Dinner: Menu

Curried parsnip soup with lime sabayon OR Tian of melon with a compote of soft fruit and oranges

Fillet of salmon with a sweet pear, prawn and dill broth OR Pan-fried chicken supreme with mushrooms, garlic, tomato and chilli

OR

Pinenut, stilton and shallot risotto with creamed leeks

Plus a selection of seasonal vegetables and potatoes

Banana and rosemary crème bruléé with homemade shortbread OR Sticky toffee pudding with butterscotch sauce OR

Selection of cheese and biscuits served with a selection of grapes

Freshly brewed coffee and mints **Choices to be relayed prior to arrival** Wine to be purchased directly by delegates from extensive menu

Wednesday 7th April

08:10 09:00	Depart halls (remember to bring your luggage!) Morning refreshments Chairman – David Fowler	
09:20	Mark Broadmeadow (Forest Research)	MONITORING THE EFFECTS OF AIR POLLUTION IN BRITISH FORESTS
09:40	James Heath (University of Lancaster)	CARBON FLUX FROM ATMOSPHERE TO SOILS UNDER ELEVATED CO $_2$ CONCENTRATIONS
10:00	PHIL INESON (Guest Speaker)	APPLICATION OF NATURAL ISOTOPES IN ECOLOGICAL RESEARCH
11:00	Break	
11:30	Keeley Bignal (University of Bradford)	THE ECOLOGICAL IMPACTS OF AIR POLLUTION FROM ROAD TRANSPORT ON LOCAL VEGETATION
11:50	René Larsen (Natural History Museum, London)	LICHEN AND BRYOPHYTE BIODIVERSITY IN LONDON BIOMONITORING AND RE-INVASION
12:10	William Purvis (Natural History Museum, London)	INVESTIGATING BIOGEOCHEMICAL SIGNATURES IN THE LICHEN <i>PARMELIA SULCATA</i> IN BURNHAM BEECHES, W. LONDON
12:30	Lucy Sheppard (CEH Edinburgh)	EARLY IMPACTS OF DIFFERENT N FORMS ON SEMI NATURAL VEGETATION GROWING ON ACID ORGANIC SOIL

12:50 Lunch - Hot finger food, quiche and sandwiches

14:00 Close of conference: departure. Minibus transfer to Newcastle/station

14:05 Hands-on CIRRAS training session: 'treat your CIRRAS with TLC'*

* if we are to run this session Lindsay needs to know numbers participating before Wed 31st. If just the Newcastle crew, then we'll probably arrange an alternative time/venue with Keith P & Caroline. However, if others would find it useful then happy to dovetail this session with CAPER (as are Keith/Caroline). Sooner we know numbers the sooner I can finalise arrangements