

CAPER 2003

COMMITTEE ON AIR POLLUTION EFFECTS RESEARCH

Didsbury Campus, Manchester Metropolitan University

14-16th April 2003

Programme

Monday 14 April

- 1230 – 1400 **Registration** in Simon Building (see enclosed Didsbury Campus map)
Lunch in Birley Building
- 1400 **Workshop** - Room 0.11 ground floor in the Simon Building
Field measurements – pros, cons and equipment
ADC
PP Systems
Hansatech
- 1530 *Tea*
- 1600 **Workshop** continued
- 1830 *Evening meal*
- 1930 Committee meeting (classroom) followed by a beer in The Didsbury pub (over the road)

Information

There is no problem with parking on the Didsbury Campus for people with cars.

Didsbury Campus is 10 min walk from East Didsbury railway station, which is on the line between Manchester Piccadilly and the Airport.

Public transport (buses) run from centre of Manchester or Stockport to Didsbury.

Luggage can be stored in a secure classroom in the Simon Building, until we have access to rooms in Broadhurst Hall before the evening meal.

Tuesday 15 April

0800 -	<i>Breakfast</i>	Birley Building
0900		
0900	Chairman: David Fowler	Welcome
0905	Richard Skinner University of York	DETECTING THE $\delta^{15}\text{N}$ SIGNAL FROM AGRICULTURAL POINT SOURCES OF AMMONIA
0925	Paul Hargreaves Rothamsted Research	MODELLING THE WET AND DRY INPUTS OF REDUCED, OXIDISED AND ORGANIC FORMS OF NITROGEN TO A TEMPERATE WOODLAND SYSTEM
0945	Jacky Carroll Manchester Met Univ	WINTER-INJURY IN NITROGEN-POLLUTED HEATHER (<i>CALLUNA VULGARIS</i>)
1005	Emma Green Imperial College London	THE EFFECT OF NITROGEN ON HEATHLAND SYSTEMS
1025	<i>Coffee/Tea</i>	
1050	Sarah Honour Imperial College London	FUMIGATION OF PLANTS WITH NO AND NO ₂
1110	Gareth Phoenix University of Sheffield	EFFECTS OF SIMULATED POLLUTANT N DEPOSITION AND PHOSPHORUS LIMITATION ON ROOT-SURFACE PHOSPHATASE ACTIVITIES OF THREE PLANT FUNCTIONAL TYPES OF A CALCAREOUS GRASSLAND
1130	Imogen Pearce CEH Banchory	DEGRADATION OF MONTANE MOSS HEATH DUE TO NITROGEN POLLUTION
1150	Mike Pilkington Manchester Met Univ	DIAGNOSTIC INDICATORS OF NITROGEN CRITICAL LOAD EXCEEDENCE ON MOORLANDS
1210	Astrid Thompson Durham University	DOES NITROGEN AFFECT ENCHYTRAEIDS?
1230	<i>Lunch</i>	
	Chairman: Keith Goulding	
1340	Prof John Raven (Invited Speaker)	ATMOSPHERIC POLLUTION, ALL AT SEA?
1440	Alison Vipond DEFRA	AIR QUALITY – THE POLICY PERSPECTIVE
1500	<i>Coffee/Tea</i>	
1520	Mike Ashmore & Gina Mills Univ Bradford and CEH Bangor	CRITICAL LEVELS FOR OZONE AND CRITICAL LOADS FOR NITROGEN – AN OVERVIEW OF RECENT DEVELOPMENTS
1540	Gina Mills CEH Bangor	THE CEH O ₃ GRASSLAND PROJECT: IMPACTS OF OZONE ON GRASS: CLOVER MIXTURES
1600	Marcel van Oijen CEH Edinburgh	THE CEH O ₃ GRASSLAND PROJECT: MODELLING OZONE FLUXES & DAMAGE
1620	Mhairi Coyle CEH Edinburgh	THE CEH O ₃ GRASSLAND PROJECT: FLUX MEASUREMENTS AT THE FIELD SCALE

1640	Patrick Bükér CEH Bangor	MONITORING OZONE IMPACT ON VEGETATION IN GERMAN MIDLANDS: AN ANN-BASED FLUX-RESPONSE MODEL FOR WHITE CLOVER
1700		DISCUSSION
1830	<i>Dinner</i>	
1930		Posters with beer and nibbles

Wednesday 16 April

0800 – *Breakfast*
0900

Chairman: Jeremy Barnes

0900	Collin Gillespie Newcastle University	BIOSTRESS: EMPLOYING OZONE TO INVESTIGATE WHETHER THE IMPACTS OF EARLY SEASON STRESS ARE AMPLIFIED BY COMPETITION?
0920	Holly Smith Newcastle University	EXAMINING THE ROLE OF CELL WALL-LOCALIZED ASCORBATE IN OZONE DETOXIFICATION
0940	Stewart Elliott Newcastle University	EXPLORING THE ROLE OF OZONE-INDUCED OXIDATIVE STRESS IN THE INDUCTION OF CAM IN <i>MESEMBRYANTHEMUM CRYSTALLINUM</i>
1000	Vicky Hawker Newcastle University	SETTING VISIBLE SYMPTOMS OF "OZONE INJURY" IN AN ECOLOGICAL CONTEXT
1020	Nigel Bell Imperial College	THE EFFECTS OF OZONE ON MALAYSIAN RICE CULTIVARS
1040	<i>Coffee/Tea</i>	
1100	Marcel Robischon Cambridge University	HORMONAL CHANGES IN FOREST TREES UNDER ATMOSPHERIC POLLUTION
1120	Laurence Jones CEH Bangor	CRITICAL LOADS OF NITROGEN IN SAND DUNES – ARE THEY BEING EXCEEDED?
1140	Sally Marsh University College London	LEAF ZINC AS AN ENVIRONMENTAL INDICATOR OF TRAFFIC POLLUTION
1200	John Pearson University College London	MOSSES AS INDICATORS OF TRAFFIC POLLUTION – THE RISE OF ZINC AND FALL OF LEAD
1220	Andrew Terry Bradford University	MODELLING OF IMPACTS OF ELEVATED ATMOSPHERIC NITROGEN DEPOSITION ON <i>CALLUNA</i> DOMINATED ECOSYSTEMS IN THE UK
1240		DISCUSSION AND ANY OTHER BUSINESS
1300	<i>Lunch and depart</i>	