THE ROYAL SOCIETY

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UK Ground-level Ozone in the 21st Century
Royal Society Expert Workshops 23-24 May 2007

PROGRAMME: Day 1 23 May 2007
Modelling and Atmospheric Chemistry Workshop

Session Chairs: Professor Mike Pilling, Professor John Pyle FRS

9-9.10am	Introduction to the aims of the day and introductions	Professor David Fowler FRS CBE (Royal Society Working Group Chair)
	CHAIR: PROFESSOR MIKE PILLING	
9.10-9.15	Introduction to key issues	Professor Mike Pilling
	Drivers of ozone change: Emissions and Projections	
9.15-9.35	Ozone precursor emissions, scenarios	Professor Markus Amann
9.35-9.55	Land-use and biogenic emissions	Paul Young
9.55-10.25	DISCUSSION	
10.25-10.45	**COFFEE**	
	Drivers of ozone change: climate change	
10.45-11.05	Long-range transport of ozone and its precursors	Dr Oliver Wild
11.05-11.25	Climate change and effects on meteorology (frequency of blocking highs, and effects in the EU)	Dr Simon Brown
11.25-11.55	DISCUSSION	
11.55-12.15	Climate and ozone interactions (climate-chemistry & ecosystem-chemistry feedbacks)	Dr Guang Zeng
12.15-12.35	Climate change and ecosystem modelling	Professor Peter Cox
12.35-1.05	DISCUSSION	
1.05-2.05	**LUNCH**	
	CHAIR: PROFESSOR JOHN PYLE FRS	
	GLOBAL MODELLING	
2.05-2.25	Simulating recent past trends in atmospheric composition	Dr Martin Schultz
2.25-2.45	Modelling global projections of ground level ozone	Dr David Stevenson
2.45-3.15	DISCUSSION	
3.15-3.30	**Coffee break**	
	REGIONAL MODELLING	
3.30-3.50	Regional scale influences on ground level ozone over the next century	Professor Dick Derwent OBE
3.50-4.10	Urban scale projections of ground level ozone	Dr John Stedman
4.10-4.40	DISCUSSION	
4.40-5.00	Horizon scanning, uncertainties, key gaps.	

PROGRAMME Day 2 24 May 2007
Impacts of Ground level ozone

SESSION CHAIRS: Professor David Fowler CBE FRS, Professor Michael Depledge

9-9.10am	Introduction to the aims of the day and introductions	Professor David Fowler CBE FRS (Royal Society Working Group Chair)
	CHAIR: PROFESSOR DAVID FOWLER CBE FRS	
9.10-9.15	Introduction to the key issues for discussion	Professor David Fowler CBE FRS
	ENVIRONMENTAL IMPACTS	
	How can we best predict effects in Europe of changes in ozone exposure in the context of global change	
9.15-9.35	Assessing changes in ozone flux to vegetation	Dr Lisa Emberson & Dr Gina Mills
9.35-9.55	Mechanisms of effect: ozone detoxification in vegetation	Professor Jeremy Barnes
9.55-10.25	DISCUSSION	
10.25-10.40	**COFFEE**	
	Does Ozone significantly alter sources and sinks of CO_2 and other greenhouse gases	
10.40-11.00	Modelling of ozone effects on global carbon storage. Indirect effects, feedbacks on climate change, carbon budgets, regional aggregation. Where are the most likely ozone issues likely to be?	Dr Steven Sitch
11.00-11.20	Experimental Effects of Tropospheric Ozone on Carbon Sequestration in Poplars	Professor Dave Karnosky
11.20-11.50	DISCUSSION	
	CHAIR: PROFESSOR MICHAEL DEPLEDGE	
	How significant is ozone as a threat to global food production	
11.50-12.10	Experimental evidence of ozone impacts on crop yield and crop quality in India	Professor Madhoolika Agrawal
12.10-12.30	Global modelling of ozone production and effects on agriculture and human health.	Dr Rita van Dingenen
12.30-1.00	DISCUSSION	
1.00-2.00	**LUNCH**	
	HUMAN HEALTH IMPACTS	
2.00.2.10	Introduction and background to key issues	Professor Ross Anderson
	Epidemiology	
2.10-2.30	Epidemiological evidence	Dr Heather Walton
2.30-2.50	Health Impacts	Professor Ross Anderson
2.50-3.20	DISCUSSION	
3.20-3.35	**COFFEE**	
	Mechanisms	
3.35-4.05	Mechanisms of effect in Humans	Professor Frank Kelly
4.05-4.35	DISCUSSION	
4.35-5.00	Horizon scanning/emerging issues/uncertainties. What has not been considered and the implications, what is needed to improve impact assessment including consideration of issues raised through horizon scanning	
	MEETING CLOSE	