

# Pesticide Behaviour in Soils, Water and Air

27 - 29 March 2006  
University of Warwick, UK



First circular  
and call for papers



**SCI**

Organised by the SCI  
Pest Management Group

## CALL FOR PAPERS

Oral and poster presentations are invited for the following sessions:

### **Microbiological and molecular aspects of degradation**

Degradation by microorganisms is the primary loss mechanism for most pesticides in the environment. The session considers environmental factors controlling biodegradation, characteristics and dynamics of pesticide-degrading organisms, biochemical and molecular mechanisms employed in pesticide metabolism, and bioremediation.

### **Bioavailability of residues in soil**

The bioavailability of pesticide residues including metabolites in soil is determined by a complex range of processes. Adsorption, hysteresis phenomena, time-dependent desorption, acid/base relationships, ionisation of chemical and soil surfaces and non-extractable residues are key elements to our understanding of chemical and soil interactions.

### **Leaching to groundwater**

Sound scientific procedures for estimating pesticide leaching to groundwater are needed for adequate regulatory assessments. The session provides an update of relevant research including process-orientated leaching studies, subsoil degradation studies, testing and improvement of leaching models, parameter-estimation methods and scenario development.

### **Fate and transport in air**

The session considers potential loss mechanisms to air during and following normal agricultural application and presents the latest knowledge on fate, dispersion and transport mechanisms of pesticides in air, including photochemical transformation in the atmosphere.

### **Transportation and dissipation processes in surface waters**

Research will be presented on transport to surface waters and fate therein from experiments in the laboratory, field/mesocosms and natural systems. The session will bring together the latest knowledge on transport process and fate in water with the model development and testing needed to underpin risk assessment.

### **Landscape-level approaches to modelling**

Spatially explicit modelling of pesticide fate can provide more realistic risk assessment and help to target management of chemical use. Topics to be considered include the use of landscape analysis and GIS, and simulation of landscape-level processes including catchment modelling and evaluation.

### **Risk mitigation**

The session will address the development and implementation of label mitigation measures for use at the field, catchment and regional level and provide an update on practical experiences of risk management and communication in the EU, USA and worldwide. Biological and chemical technologies for reducing point and diffuse contamination will be included.

To submit a paper, please send an abstract  
(maximum length 300 words) to  
[laura.milne@soci.org](mailto:laura.milne@soci.org)

Please indicate whether a platform or poster  
presentation is preferred and which session it  
should be considered for.

### **Closing date: Wednesday 21 September 2005**

Please note that acceptance of abstracts will be  
conditional of fully paid registration prior to the  
conference.

## **GUEST SPEAKERS**

Richard Allen, *USA*

Roland Kubiak, *Germany*

Fabrice Martin-Laurent, *France*

Joe Pignatello, *USA*

Mark Russell, *USA*

Ralf Schulz, *Germany*

Jan Vanderborght, *Belgium*

## OUTLINE PROGRAMME

### Monday 27 March 2006

- 13.00 Registration and lunch
- 14.00 Opening session
- 15.30 Coffee
- 16.00 Microbiological and molecular aspects of degradation

### Tuesday 28 March 2006

- 08.45 Bioavailability of residues in soil
- 10.35 Coffee
- 11.00 Leaching to groundwater
- 12.50 Lunch
- 14.00 Fate and transport in air
- 15.50 Poster session and coffee
- 18.30 Dedication to Prof Allan Walker  
Drinks reception
- 19.30 Conference dinner

### Wednesday 29 March 2006

- 08.45 Transportation and dissipation processes in surface waters
- 10.35 Coffee
- 11.00 Landscape-level approaches to modelling
- 12.50 Lunch
- 14.00 Risk mitigation
- 15.50 Close of conference

## AIMS OF THE CONFERENCE

The conference will present the latest research into the environmental behaviour of pesticides and its application in assessing and managing risks to the environment and human health. We will consider each environmental compartment in turn, blending research into basic processes with study of routes of environmental exposure and the development of practical management strategies to reduce contamination. The programme will be of interest to environmental scientists from research organisations, industry, government and NGOs and to those in related disciplines seeking a concise overview of the state of the art.

## THE VENUE

The University of Warwick is located on the outskirts of Coventry and is easily accessible by road. There is free car parking available on campus.

The closest train station is Coventry station, which is well connected to the campus via the No 12 bus route and taxis. The station is on the Main West Coast Line, with regular connections to major towns and cities. Birmingham International Airport is only 20 minutes away by taxi.

## ACCOMMODATION

Accommodation will be available at Warwick University in single study bedrooms. All rooms will have ensuite facilities, free internet access and tea/ coffee-making facilities. Room rates will include a full breakfast and evening meal.

## FEES

Registration and accommodation costs at the university will be given in a second circular and announced at [www.soci.org](http://www.soci.org). To receive the second flyer, please complete the attached form and return it to:

Laura Milne  
SCI Conference Department  
14/15 Belgrave Square  
London, SW1X 8PS, UK

T: +44 (0)20 7598 1565; F: +44 (0)20 7235 7743  
E: [laura.milne@soci.org](mailto:laura.milne@soci.org)

**or register interest online at**  
**[www.soci.org/pest](http://www.soci.org/pest)**

## ORGANISING COMMITTEE

Colin Brown, *University of York, UK*

Gary Bending, *University of Warwick, UK*

Jos Boesten, *Alterra, The Netherlands*

Richard Bromilow, *Rothamsted Research, UK*

Ettore Capri, *UCSC Piacenza, Italy*

Andrew Craven, *Craven Consultants, UK*

Christopher Leake, *Bayer CropScience, Germany*

Oliver Price, *CEA, UK*

## REPLY FORM

### Pesticide Behavior in Soils, Water and Air

University of Warwick, UK

**27 - 29 March 2006**

- I wish to attend. Please send me the final circular when available
- I wish to receive information on exhibiting
- I wish to present a short lecture and have sent a **300 word abstract** via email
- I wish to present a poster and have sent a **300 word abstract** via email

Preferred session .....

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Surname .....

First Name .....

Title: Prof/Dr/Mr/Mrs/Miss/Ms (delete as appropriate)

Membership status (tick appropriate box(es):-

SCI members.....

SCI student members.....

Non-members .....

Non-member students.....

Retired SCI members.....

Institution/Company .....

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Position .....

Address .....

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Telephone .....

Fax .....

Email .....