

Loads and Fate of Fertiliser Derived Uranium

Programme

Monday, 4 June 2007

- 10.00 10.15 Introduction to the scope of the symposium
Ewald Schnug (Braunschweig, Germany)
- Session I: General aspects of U toxicology for humans and biota**
- 10.15 10.45 Biochemical aspects. *Chris Busby (Liverpool, UK) and Hermann Kruse (Kiel, Germany)*
- 10.45 11.15 Radiological aspects. *Inge Schmitz-Feuerhake (Bremen, Germany) and Rosalie Bertell (Toronto, Canada)*
- 11.15 11.45 Sensitivity of biota. *Pascale Henner and Jacqueline Garnier-Laplace (Saint Paul Lez Durance, France)*
- Session II: Intra- and Inter-system aspects**
- 11.45 12.15 U in German soils. *Jens Utermann (Hannover, Germany)*
- 12.15 12.45 Soil/plant interface of U. *Judith Schick, Susanne Schroetter, Maria Lamas (Buenos Aires, Argentina), Maria Rivas (Pergamino, Argentina), Sylvia Kratz and Ewald Schnug (Braunschweig, Germany)*
- 12.45 14.00 Lunch
- 14.00 14.30 U in German surface and tap waters. *Manfred Birke (Hannover, Germany), Nathalie Costa, Robert Kreuzig (Braunschweig, Germany), Broder Merkel (Freiberg, Germany) and Ewald Schnug (Braunschweig, Germany)*
- 14.30 15.00 Soil/water interface of U. *Broder Merkel (Freiberg, Germany)*
- 15.00 15.30 U distribution in a cultivated watershed. *Gerd Sparovek and Luis I. Prochnow (Piracicaba, Brazil)*
- 15.30 16.00 Coffee
- 16.00 16.30 ²³⁸U as a model for studying the mobility of U in surface and groundwater and its transfer into plants. *Ian Oliver, Margaret Graham and Douglas MacKenzie (Glasgow & Edinburgh, Scotland)*
- 16.30 17.00 Food chain transfer of uranium-series radionuclides. *Patricia Thomas (Saskatoon, Canada)*
- 17.00 17.30 **Round table discussion**
- 18.00 21.00 Baltic21 TFSA internal meeting

Tuesday, June 5, 2007

Session III: Sources and loads

- 8.30 9.00 Model studies with ²³⁸U to assess the mobilisation and speciation of U in soils. *Gerhard Geipel, Nils Baumann (Dresden, Germany) and David Read (Reading, United Kingdom)*

- 9.00 9.30 U balances in agroecosystems. *Sylvia Kratz, Florian Knappe (Heidelberg, Germany), Judith Schick and Ewald Schnug (Braunschweig, Germany)*
- 9.30 10.00 U in soils of German long-term fertiliser trials. *Jutta Rogasik, Sylvia Kratz and Ewald Schnug (Braunschweig, Germany)*
- 10.00 10.30 Connections between phosphate fertiliser production and U fuel cycle. *Richard Brand (Duisburg, Germany)*
- 10.30 11.00 Coffee
- 11.00 11.30 Combining energy and fertiliser production – Vision for Chinas future. *Zhengyi Hu (Beijing, China) and Hongxun Zhang (Beijing, China)*
- 11.30 12.00 Significance of U isotope relations for tracking the fate of U during the processing of phosphate fertilisers from rock phosphates. *Mamdoh Sattouf, Dettel Schiel, Katrin Diemer, Sylvia Kratz, Jürgen Fleckenstein and Ewald Schnug (Braunschweig, Germany)*
- 12.00 12.30 The fate of U contaminants of phosphate fertilisers. *Matthew Taylor (Hamilton, New Zealand)*
- 12.30 14.00 Lunch
- 14.00 14.30 Setting the normative rates of nature radionuclides in phosphor fertilisers. *Vladimir Drichko, Alexandra Izosimova, Viktor Shamov, Stanislav Graschenko, Elvira Lisachenko (St. Petersburg, Russia)*
- Session IV: Protection and remediation of soils**
- 14.30 15.00 A critical evaluation of phytoextraction on U contaminated agricultural soils. *Silvia Haneklaus and Ewald Schnug (Braunschweig, Germany)*
- 15.00 15.30 Legal aspects of U in environmental compartments. *Felix Ekardt (Bremen, Germany)*
- 15.30 16.00 Coffee
- 16.00 17.30 **Wrap up, round table discussion and conclusions** between scientists, and invited representatives from industry and political decision makers
- 18.00 20.00 Baltic21 TFSA internal meeting

Venue: FORUM of FAL, Bundesallee 50, 38116 Braunschweig, Germany

Wednesday, June 6, 2007

Scientific excursion: Ecology of heavy metals in the Harz mountains

Organisation: Kerstin Panten, Ewald Schnug (Braunschweig, D), Friedhart Knolle (Goslar, D) and Luit J. De Kok (Haren, NL)

Registration form

Title	_____
Family name	_____
First name	_____
Organisation	_____ _____
Address	_____ _____ _____
City	_____
Post code	_____
Country	_____
Phone	_____
Fax	_____
E-mail	_____

Please, send your registration form either by mail, fax or e-mail to:

Institute of Plant Nutrition and Soil Science
Federal Agricultural Research Centre (FAL)
Bundesallee 50
D-38116 Braunschweig

Fax : 0531-5962199

E-mail: pb@fal.de

Participation Symposium: free
Excursion: about 30 € pp

Venue Forum of FAL
Federal Agricultural Research Centre (FAL)
Bundesallee 50
D-38116 Braunschweig

Directions <http://www.fal.de>

Hotels <http://www.hrs.de>

I wish to participate in symposium Yes No

I wish to participate in excursion Yes No