



XIV<sup>th</sup> International Colloquium on Soil Zoology and Ecology

At the Université de ROUEN - Mont Saint Aignan, France

From August 30th to September 3rd 2004

## ► Scientific program

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**Université de Rouen – IRD - Muséum national d’Histoire naturelle de Paris  
Conseil Régional de Haute Normandie  
Ministère de l’Ecologie et du Développement durable  
CTA – ADEME – Université Paris IX  
Ville de Rouen – Office de Tourisme de Rouen – Maison de l’Université**

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Thanks to V. Behan-Pelletier, T. Decaëns, P. Lavelle, J. Measey, S. James and C. D’Haese**

# GENERAL INFORMATION

## Welcome

The Organising Committee is pleased to welcome you to the XIV<sup>th</sup> International Colloquium of Soil Zoology and Ecology. We hope that your travel to France was nice and that you will enjoy both the scientific and social programs, which are presented in this booklet.

## Registration

All participants and accompanying persons need to register immediately after arrival. This is an important point as only participants wearing their colloquium badges will be accepted to enter in the conference room and to participate to the full scientific program.

The registration office is located in front of the conference room and will be opened on Monday, August 30, from 8:30am to 16:30pm and every other day from 9:00am to 16:30pm.

## Presentation of contributions

Five types of contributions will be presented during the colloquium.

**Introductory lectures** of 30 min (including time for questions) will present the state of the art of each theme at the beginning of each session.

**Oral communications** are organised in the 7 sessions listed in the scientific program, and will be allowed 15 min (including time for questions). The identity of chairman for each session will be given during the opening session.

For any kind of talk, please contact Thibaud Decaëns or the chairman of your session to put your Powerpoint or Open Office presentations in order to avoid any problem of incompatibility between different software versions.

**Poster presentations** will take place in specific rooms from 16:30pm to 18:30pm on Monday (sessions 1-3), Tuesday (sessions 4-6) and Thursday (sessions 7-8). Please mount your posters at any moment during the day of your session and dismount it at the end of the session.

The 8<sup>th</sup> session will host posters on “*Autecology and Biology of Soil Animals*” that are not directly related with the ecosystem services treated in the other sessions.

**Program presentations** will allow people involved in important international program to present the main objectives and results of the team of scientists involved in these investigations.

**Workshop reports** will be presented in a specific session. Workshops will take place on Tuesday evening in the Science Faculty building, at about 50 meters from the Maison de l’Université, and chairmen will be given 15min to present the main results of discussion in plenary session on Wednesday morning.

## Computer room

A computer room is at your disposal in the Maison de l’Université. All details regarding connexion will be given to you during the opening session.

## **Tea – Coffee – Lunches**

Coffee and tea will be provided during the morning and afternoon sessions in front of the conference room.

Lunches will be served in the University Restaurant of the Panorama, at about 200 meters from the conference room. The cost of lunches is included in the colloquium fee.

## **Certificate of attendance**

Certificate of attendance are available on request from the Registration Office.

## **Tourist informations / accompanying person excursions**

You can find Tourist Information at the Office de Tourisme de Rouen:

### **Office de Tourisme**

25 Place de la Cathedrale

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## **Field trip**

The Colloquium excursion is planned for Wednesday, September 1<sup>st</sup>, with departure just after the workshop reports. The program involves a visit of the town of Honfleur and of the cliffs of Etretat.

## **Welcome drink at the "Hotel de Ville de Rouen" / Conference dinner**

A welcome drink will be offered to participants by the town council on Thursday, September 2<sup>nd</sup>. Appointment has been made at the Hôtel de Ville de Rouen at 7:00pm.

Just after this drink, participants are invited to reach the Halle aux Toiles (about 500 meters from the Hôtel de Ville) for the conference dinner. A special Soil Fauna Song Session will be organised with hopefully participations of delegates from all countries.

# COMMITTEE

## International scientific committee

Thibaud Decaëns (France) - *Coordinator*  
Patrick Lavelle (France) - *Coordinator*  
Valérie Behan-Pelletier (Canada)  
David Bignel (United Kingdom)  
Lijbert Brussaard (The Netherlands)  
Eleusa Barros (Brazil)  
Jim Curry (Ireland)  
Dario Díaz Cosín (Spain)  
Alexander Feijoo (Colombia)  
Patricia Folgarait (Argentina)  
Carlos Fragoso (Mexico)  
Vadakattu Gupta (Australia)

Paul Hendrix (USA)  
Martin Holmstrup (Denmark)  
Mary Okwakol (Uganda)  
Maurizio Paoletti (Italy)  
Bikram Senapati (India)  
Paulo Sousa (Portugal)  
Ichiro Tayasu (Japan)  
Jerome Tondoh (Côte d'Ivoire)  
Diana Wall (USA)  
Allan Watt (United Kingdom)  
Volkmar Wolters (Germany)  
Bao Gui Zhang (China)

## Ex officio

Geoff Baker (Australia)  
Adrian Reinecke (Republic of South Africa)  
Josef Rusek (Czech republic)

Veikko Huhta (Finland)  
Dimitrii Krivolutski (Russia)

## National Scientific Committee

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Michael Aubert (Univ. Rouen)  
Eric Blanchart (IRD)  
Fabrice Bureau (Univ. Rouen)  
Patrice Cadet (IRD)  
Daniel Cluzeau (Univ. Rennes)  
Jérôme Cortet (Univ. Marseille)  
Marie Madeleine Couteaux (CEFE – CNRS)  
Simone Deleporte (Univ. Rennes)

Jean-François David (CEFE - CNRS)  
Louis De Harveng (MNHN)  
Evelyne Garnier-Zarli (Univ. Paris XII)  
Pierre Margerie (Univ. Rouen)  
Jean Pierre Rossi (Univ. Bordeaux)  
Corinne Rouland (Univ. Paris XII)  
Guy Vannier (MNHN)  
Cécile Villenave (Univ. Lyon I)

## Local organising committee

Thibaud Decaëns (Univ. Rouen) -  
*Coordinator*  
Patrick Lavelle (IRD - Bondy) - *Coordinator*  
Marthe Akpa-Vinceslas (Univ. Rouen)  
Michael Aubert (Univ. Rouen)

Fabrice Bureau (Univ. Rouen)  
Ana Ferreira (Univ.Rouen) - *Secretary*  
Louise Givord (IRD - Bondy) - *Web site*  
Pierre Margerie (Univ. Rouen)  
Jocelyne Roman (IRD - Bondy) - *Secretary*

# SCIENTIFIC AND SOCIAL PROGRAMS

## MONDAY – August 30<sup>th</sup>

- 08h30 Registration - coffee
- 10h00 Opening ceremony
- 10h30 D. Wall - *Introductive talk*

### ***Session 1 "Man and the soil fauna"***

- 11h20 V. Wolters – Program presentation “MILLENNIUM ASSESSMENT”
- 11h40 M. Huguenin – Economic valuation of soil fauna
- 12h10 T. Decaëns, J.J. Jiménez, C. Gioia, P. Lavelle – The value of soil animals for conservation biology -

### **12h30 LUNCH**

- 14h00 H. Verhoeff, J. Van Dijk – Spatial aspects of soil fauna activity

### ***Session 2 “Soil biodiversity”***

- 14h30 M. Loreau – The value of biodiversity in sustaining ecosystem services
- 14h45 J. Tondoh – Program presentation “BGBD”
- 15h00 M.P. Berg, H.H. van de Heuvel – Resilience of soil mesofauna communities; does community stability depend on species richness?
- 15h15 M.T. Fountain, V.K. Brown – Biodiversity of soil fauna and the importance of identification to species level
- 15h30 J. Measey – Surveying biodiversity of subterranean herpetofauna: qualitative, semi-quantitative and quantitative methods
- 15h45 V. Pižl, J. Starý, V. Balík – The effect of plant diversity manipulation on the succession of soil fauna in an abandoned arable field
- 16h00 T. Pavlíček, C. Csuzdi – Species richness and zoogeographic affinities of earthworms in Cyprus
- 16h15 M. Wanner, W.E.R. Xylander – Community assembly of terrestrial testate amoebae – is there any succession at all?
- 16h30 - 18h30      **Coffee and Poster session 1-3**  
                        Wine or local product - tasting session
- 18h30 End

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## TUESDAY – August 31<sup>th</sup>

### ***Session 3 “Soil animals, nutrient cycling and soil fertility”***

- 08h45 L. Brussaard – Soil fauna-mediated nutrient cycling under agricultural (de-) intensification

- 09h15** D. Wall – Program presentation: IBOY/GLIDE  
**09h35** H. Höfer, D. Burger et al. – Program presentation: SHIFT  
**09h55** N.Q. Arancon, C.A. Edwards, S. Lee, R. Byrne – Effects of humic acids extracted from earthworm-processed organic wastes (vermicomposts) on plant growth  
**10h10** G. Baker, M. Amato, J.N. Ladd – Nitrogen release from surface and incorporated plant residues by earthworms (Lumbricidae) in four soil types in southern Australia

**10h25 Coffee**

- 11h00** D.C. Coleman, M.D. Hunter, P.F. Hendrix, D.A. Crossley Jr., B. Simmons, K. Wickings – Long-term consequences of Biochemical and Biogeochemical changes in the Horseshoe Bend Agroecosystem, Athens, GA  
**11h15** M. Chauvat, A.S. Zaitsev, E. Gabriel, V. Wolters – Temporal changes of decomposer assemblages structure and functioning during beech forest growth  
**11h30** S. Partsch, A. Milcu, S. Scheu – Decomposer animals (earthworms, collembolan) affect above-ground productivity and species dominance in a plant diversity gradient  
**11h45** M.B. Postma-Blaauw, J. Bloem, L. Brussaard, R.G.M. De Goede, F.T. de Vries – Interactions between three bacterivorous nematode species: effects on population development, bacteria and nitrogen mineralization  
**12h00** N. Plum, J. Filser – Effects of earthworms and enchytraeids on nutrient mobilisation after flooding of wetland soils

**12h15 LUNCH**

- 14h00 – 16h30** Workshops 1 to 6  
**16h30 – 18h30** Coffee and Poster session 4-5  
**18h30** End

**19h30 - 20h30 Guided promenade in the old town**

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**WEDNESDAY – September 1<sup>st</sup>**

***Workshop reports***

- 09h00** 1. Soil fauna sampling: from plot to landscape scales – P. Sousa, H. Verhoef  
**09h15** 2. Synthetic indices of soil quality based on fauna communities – J. Römbke, N Ruiz  
**09h30** 3. Faunal/microbial interactions: concepts and methodologies – S. Scheu, A.V. Tiunov, C. Rouland  
**09h45** 4. Linking morphology and functioning in humiferous episolum : soil fauna in existing classification of humus forms – F. Bureau, J.J. Brun, E. Velasquez  
**10h00** 5. Measuring soil fauna contribution to ecosystem services : protocols and methods – V. Wolters, P. Lavelle  
**10h15** 6. Modeling soil fauna regulations in ecosystems: how to combine the foodweb and ecosystem engineer approach – P. de Ruiter, S. Barot

**10h30 – 19h00 Field trip (Honfleur and Etretat)**

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## **THURSDAY – September 2<sup>nd</sup>**

### ***Special session INVASIVE EARTHWORMS – P. Hendrix***

- 09:00 D. Parkinson et al.** – Introductive remarks  
**G. Baker et al.** – Effects of earthworm introductions on soil processes, plant production and other soil biota in agricultural systems and reclaimed land  
**L.E. Frelich et al.** – Effects of earthworm invasion into ecosystems devoid of earthworms  
**P. Hendrix et al.** – Effects of earthworm invasion into ecosystems inhabited by native earthworms  
**J. Terhivuo, A. Saura** – Dispersal and adaptation of clones in parthenogenetic earthworms

### ***Session 4 "Ecosystem engineering by soil fauna"***

- 10h00 E. Barros, E. Blanchart, D. Dubreucq** – Soil formation and maintenance of physical structure  
**10h15 C. Jones** – Effects of soil ecosystem engineers on the structure and activities of other organisms  
**10h30 Coffee**  
**11h00 S. Barot, J.P. Rossi, P. Lavelle** – Coupling spatial variations in earthworm density and soil structure, a modelling approach  
**11h15 G.G. Brown, L.J. Oliveira** – White grubs as agricultural pests and as ecosystem engineers  
**11h30 M. Diouf, E. Miambi, P. Mora, C. Rouland** – The impact of termite sheeting age on their fungal communities  
**11h45 J.J. Jiménez, T. Decaëns** – Spatio-temporal dynamics of physico-chemical properties in the biostructures produced by soil ecosystem engineers: a synchronical approach in Neotropical savannas  
**12h00 N. Kaneko, A. Toyota, M. Hashimoto, K. Matsuda, M.T. Ito** – Control of a forest ecosystem by the periodical train millipede, Parafontaria laminata  
**12h15 C. Platner, M. Schaefer, S. Scheu** – Mound building ants as ecosystem engineers in dry grasslands: belowground effects on soil fauna and plant growth

### **12h30 LUNCH**

### ***Session 5 "Food webs and other nested biological controls"***

- 14h00 W.H. van der Putten, T.M. Bezemer, G.B. De Deyn** – Linking above and belowground foodwebs: results from CLUE, Tlinks, CONSIDER, and other projects on above-belowground interactions  
**14h30 A. Gastine** – Program presentation: "BIODEPTH" -  
**14h50 C. Villenave, C. Blanc, M. Sy, D. Djigal** – Predation on bacteria by bacterial-feeding nematodes and consequences on the structure of the soil microbial community  
**15h05 P. Cadet, V.W. Spaull** – Mitigation of nematode community pathogenicity by plant-parasitic nematodes in tropical regions  
**15h20 J. Dyckmans, K.G. Black, S. Schrader, C.M. Scrimgeour, O. Schmidt** – Soil algae as a carbon source for soil animals

- 15h35** **A. Juen, M. Traugott** – A new DNA-based method to disentangle trophic relationship within soil fauna communities
- 15h50** **I. Tayasu, P.J. Folgarait, F. Thomas, T. Desjardins, P. Lavelle** – Stable isotope analysis of soil macrofauna along an abandoned rice field chronosequence in northeastern Argentina
- 16h05** **A. Tiunov, S. Scheu** – Arbuscular mycorrhiza and collembolans interact in affecting community composition of saprotrophic fungi
- 16h20 – 18h20** **Coffee and Poster session 6-8**
- 18h20** **End**
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- 19h00 - 20h00** **Welcome drink at the "Hotel de Ville de Rouen"**
- 20h30** **Conference dinner**
- 22h00** ***Soil fauna song session* – P. Hendrix, P. Lavelle + delegate from each country represented**

## **FRIDAY – September 3<sup>rd</sup>**

### ***Session 6 "Soil animals, waste treatment, detoxification and bioremediation"***

- 09h00** **C.A. Edwards, R. Lanno** – Soil Animals in detoxification and bioremediation, organic waste treatment and ecosystem restoration: Earthworms as an example
- 09h30** **J. Römbke** – Program presentation: "**ECOTOX**"
- 09h45** **K. Hedlund et al.** – Soil factors associated with successful restoration of above ground biodiversity
- 10h00** **C. Kula, J. Römbke** – Development of an international test guideline for the soil mite Hypoaspis aculeifer
- 10h15** **R. Kuperman, M. Amorim, R. Lanno, J. Römbke** – Adaptation of the enchytraeid toxicity test for use with natural soil types
- 10h30** **Coffee**
- 11h00** **J. Rusek** – Soil microstructure development during succession on chemical factory heaps
- 11h15** **P.C.J. van Vliet, W.A.M. Didden, S.E.A.T.M. van der Zee, W.-C. Ma, W.J.G.M. Peijnenburg** – Accumulation of heavy metals by enchytraeids and earthworms in a floodplain
- 11h30** **M. Bouché, P. Soto** – An industrial use of soil animals for environment: the treatment of organically polluted water by Lombrifiltration

### ***Session 7 "Functional groups and valuation as indicators of soil fauna"***

- 11h45** **V. Behan-Pelletier, J. Römbke, P. Lavelle, J. Roy** – Response versus effect groupings, biological traits and bioindicators
- 12h00** **A. Watt** – Program presentation: "**BIOASSESS**"
- 12h20** **P. Lavelle** – Program presentation: "**IBOY/MACROFAUNA**"
- 12h40** **LUNCH**

- 14h00** **M.J.I. Briones, P. Ineson, A. Heinemeyer** – Meta-analysis of enchytraeid responses to climate change. Implications for C cycling
- 14h15** **B. Förster, M. Garcia, J. Römbke** – The effects of two pesticides in semi-field and field tests under tropical conditions (Amazonia, Brazil)
- 14h30** **K.B. Gongalsky** – Uranium production effects on soil macrofauna in South-Eastern Siberia (Russia)
- 14h45** **B.S. Griffiths, P.H. Krogh, J. Cortet, A.N.E. Birch, S. Caul, J. Thompson** – A comparison of fauna in soils planted with Bt toxin-expressing transgenic maize and an isogenic control, with and without additional insecticide, in a glasshouse study
- 15h00** **D.A. Heemsbergen, M.P. Berg, J.R. van Hal, J.H. Faber, H.A. Verhoef** – Biodiversity effects on soil processes explained by community composition; the importance of functional complementarity of species
- 15h15** **K. Schneider, S. Scheu, M. Maraun** – No effect of habitat fragmentation on microarthropods in soil
- 15h30** **E. Velasquez, N. Ruiz, P. Lavelle et al.** – Soil macrofauna as indicator of soil quality

**15h45 Closing ceremony**

**16h15 End of Colloquium**

# LIST OF PARTICIPANTS

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