

The 8th International
Symposium on Earthworm
Ecology

4th - 9th September 2006,
Kraków, Poland

Scientific Programme
and List of Participants

INTERNATIONAL SCIENTIFIC COMMITTEE

James P. Curry (Ireland)
Clive Edwards (USA)
Patrick Lavelle (France)
A. John Morgan (Great Britain)
Pietro Omodeo (Italy)
Victor Pop (Romania)
Denis Parkinson (Canada)
Vaclav Pižl (Czech Republic)
Adrian Reinecke (South Africa)
Zhenjun Sun (China)

NATIONAL SCIENTIFIC COMMITTEE

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Joanna Kostecka
Barbara Płytycz
Grzegorz Makulec
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LOCAL ORGANIZING COMMITTEE

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The organisers thank Institute of Environmental Sciences of Jagiellonian University for hosting the Symposium

Symposium Logo designed by January Weiner

Welcome

The organising Committee is pleased to welcome you to the 8th International Symposium on Earthworm Ecology. So, welcome to Krakow - the city of historical spirits. Joining us, you will meet other scientists for reciprocal inspiration and the sharing of mutual knowledge and... fun.

Registration

The participants and accompanying persons need to register after arrival. Only participants wearing their Symposium badges will be accepted to enter in the conference room and to participate in full scientific programme.

The Registration Desk will be opened Monday 4th 15.00 –20.00 for on-site registration and enquires, and every other day from 9.00 – 16.00.

Certificates of attendance

Certificates of attendance will be available from the Registration Desk

Conference Notice Board

A notice board located in the main hall near the Registration Desk will be available for communication among participants.

Poster presentation

All posters will be exposed during the whole Symposium. Poster should be set up on Monday or Tuesday morning and must be down by Saturday 19.00.

Posters can be mounted to the boards with double-sided tape, which will be available at the Registration Desk.

Computer room

A computer room is at your disposal. All details regarding internet connexion will be given to you during the opening session.

Smoking Policy

Smoking is not permitted in all University buildings.

SCIENTIFIC PROGRAMME – Oral Sessions

MONDAY – September 4th

- 14.00 – 19.00 Registration
- 16.00 – 16.40 Opening ceremony
Welcome Address – Professor Szczepan Biliński – Vice-Rector of the Jagiellonian University
Welcome Address – Professor Jan Kozłowski – Director of the Institute of Environmental Sciences
- 16.40 – 17.25 *Introductory lecture* **Stefan Scheu**
Prospects in earthworm ecology
- 17.25 – 19.00 Get together party

TUESDAY – September 5th

- 9.00 – 9.10 Welcome and introduction

Session 1: Earthworm Biodiversity: Conventional and Molecular Approaches to Systematics

Chairman: **Samuel W. James**

- 9.10 – 9.40 *Plenary* **George G. Brown, Carlos Fragoso & Samuel W. James**
Earthworm biodiversity in Latin America: present state of the art
- 9.40 – 9.55 **Antonia Adriana Pop, Csaba Csuzdi & Victor V. Pop**
New Step in Using 16S rDNA and COI Sequences in the Molecular Systematics of Earthworms (Annelida, Oligochaeta)
- 9.55 – 10.10 **Rob Blakemore**
Origin and means of dispersal of cosmopolitan *Pontodrilus litoralis* (Grube, 1855) (Megascolecidae).
- 10.10 – 10.25 **Erin K. Cameron, Erin M. Bayne, David W. Coltman, M. Jill Clapperton**
Introduction of Exotic Earthworms in the Boreal Forest of Western Canada
- 10.25 – 10.40 **Bruce A. Snyder, P. F. Hendrix, and M. A. Callaham Jr.**
Effects of the invasive exotic earthworm *Amyntas agrestis* on native taxa: are species invasions a threat to biodiversity?
- 10.40 – 11.10 Coffee break
- 11.10 – 11.25 **Jian Huang, Qin Xu, Zhenjun Sun**
Chinese Terrestrial Earthworms
- 11.25 – 11.40 **Palanisamy Kathireswari, J. M. Julka & R. Jeyaraaj**
Biodiversity of Earthworms in Different Ecosystems of Western Ghats, Tamil Nadu, India
- 11.40 – 11.55 **Jadwiga Danuta Plisko**
Biodiversity of the South African megadrile earthworm fauna

- 11.55 – 12.10 **Grizelle González, Emerita García, Sonia Borges, Maria M. Rivera**
Earthworm communities along an elevational and climatic gradient in
Northeastern Puerto Rico
- 12.10 – 12.25 **Rüdiger Schmelz, Rut Collado & Jörg Römcke**
Taxic diversity and distribution of microdrile oligochaetes
(Enchytraeidae, Tubificidae, Naididae) in secondary forests and pastures
of the Mata Atlântica (Parana, Brazil)
- 12.25 – 12.40 General discussion and session summary
- 12.40 – 13.40 **Poster session 1, 2, 3**
- 13.40 – 15.00 Lunch

Session 2: Earthworm Ecology and Global Change

Chairman: **January Weiner**

- 15.00 – 15.30 *Plenary* **Alexei V. Uvarov, Alexei V. Tiunov, Stefan Scheu**
Inter- and intraspecies relationships in earthworms
- 15.30 – 15.45 **Nico Eisenhauer & Scheu, S.**
Invasion of European earthworms into a North American aspen forest:
Effects on soil chemistry, microflora, fauna, and vegetation
- 15.45 – 16.00 **Dubs, F., Patric Lavelle., Boucelham, M., Brennan, A., Csuzdi C.,
Eggleton, P., Keating, A., Moreno, A, G., Ivits, E.**
Impact of European landscape pattern on earthworm communities
- 16.00 – 16.15 **Hans-Jörg Brauckmann, G. Broll & K.-F. Schreiber**
Earthworm coenoses of calcareous grassland sites in South-western
Germany - influence of management practices and succession
- 16.15 – 16.30 **Erin C. Hampton & Geoff S. Humphreys**
Variation in Megascolecidae earthworm casting under different native
vegetation communities in South-East Australia.
- 16.30 – 17.00 Coffee break
- 17.00 – 17.15 **Michael Doyle, Kirwan, L., Connolly, J. and Bolger, T.**
The Effect of Biodiversity on Ecosystem Function: a microcosm
experiment using earthworms
- 17.15 – 17.30 **Luis Sampedro & Joann K. Whalen**
Denitrification coupled to the heterotrophic activity of earthworms: a gut-
associated process with consequences at the ecosystem level.
- 17.30 – 17.45 **Václav Pižl, Nováková A., Starý J. & Šustr V.**
Biology and ecophysiology of the endemic earthworm *Dendrobaena
mrazeki*, and its effects on soil and soil organisms in xerophilous oak
forests
- 17.45 – 18.00 **Olaf Schmidt, Paul Doherty, James Curry and Jens Dyckmans**
Colonization and assimilation of isotopically distinct cattle dung by ten
sympatric earthworm species
- 18.00 – 18.15 **Kevin R. Butt, Christopher N. Lowe, Toby Beesley, Ian Hanson &
Randal Keynes**
Darwin's earthworms revisited
- 18.15 – 18.30 General discussion and session summary

WEDNESDAY – September 6th

- 9.00 – 9.10 Welcome and introduction
- Session 3: Earthworm Immunology and Physiology**
Chairman: **Edwin L. Cooper**
- 9.10 – 9.40 **Plenary Ellen Kauschke**
Coelomic fluid proteins as basic components of innate immunity in earthworms
- 9.40 – 9.55 **Maria J. I. Briones, Alvarez-Otero R., Pearce T. G. & Gago-Duport L.**
New insights into the structure of the earthworms' calciferous glands
- 9.55 – 10.10 **Shinobu Gamou, Tomoharu Suzuki, Makoto Honda, Seiji Matsumoto & Stephen R. Stürzenbaum**
Identification of valosine-containing proteins (VCP) as a novel spermatogenesis related factor in *Eisenia fetida* (Savigny, 1826)
- 10.10 – 10.25 **Mira Grdisa, Terezija-Mihaela Hrzenjak**
Earthworm *Eisenia foetida* as a source of macromolecules with different biological activities
- 10.25 – 10.40 **Mariappan Balamurugan, M. Prakash, K. Parthasarathi, E. L. Cooper & L. S. Ranganathan**
Effect of Earthworm Paste (*Lampito mauritii*, Kinberg) on the Anti-inflammatory, Anti-oxidative, Haematological and Serum Biochemical Indices of Rat (*Rattus norvegicus*)”
- 10.40 – 11.10 Coffee break
- 11.10 – 11.25 **Zhenjun Sun , Yanqin Liu, Xichun Zhang, Chong Wang, Guozhen Xu**
A new antibacterial vermipeptides family from earthworm *Esenia fetida*
- 11.25 – 11.40 **Balazs Oppel, Peter Engelmann, Tamas Czompoly, Edwin L. Cooper, Peter Nemeth**
Identification of earthworm coelomocyte subgroups with immunological and molecular biological approaches
- 11.40 – 11.55 **Joe W. Francis, Stephen Wreesman, Katie Reigstad, Rebekah Eggar, Michael Enos, Stephan Krutzik & E.L. Cooper**
The search for innate immune receptors on earthworm coelomocytes
- 11.55 – 12.25 **Stephen R. Stürzenbaum, Andre, J., Anthony, A., Blaxter, M. L., Calafato, S., Chasely, J., Georgiev, O., Hedley, B. A., Jones, M., Kille, P., Morgan, A. J., Morgan, J. C., Parkinson, J., Schmid, R., Spurgeon, D. J., Svendsen, C., Wasmuth, J., Workman, V.**
Lumbribase presentation -The earthworm Expressed Sequence Tag (EST) project
- 12.25 – 12.40 General discussion and session summary
- 12.40 – 13.40 **Poster session 4, 5, 6**
- 13.40 – 15.00 Lunch

Session 4: Interactions With Other Organisms

Chairman: **Stefan Scheu**

- 15.00 – 15.30 *Plenary* **Manuel Blouin, Laffray Daniel, Pham-Thi Ahn-Thu, Zuily-Fodil Yasmine, Reversat Georges, Lavelle Patrick**
Why do earthworms increase plant growth?
- 15.30 – 15.45 **Geoff H. Baker**
Influence of earthworms on the growth of cotton and wheat plants in contrasting soil types
- 15.45 – 16.00 **Fernando Monroy, Manuel Aira & Jorge Domínguez**
Earthworms increase diversity of decomposers and modify compartmentalization of the fungal and bacterial energy channels of soil food webs during decomposition of organic matter
- 16.00 – 16.15 **Olaf Butenschoen, Sven Marhan, Christian Poll, Ellen Kandeler, Stefan Scheu**
Endogeic earthworms reduce the fungal stabilization of litter derived carbon at the soil litter interface
- 16.15 – 16.30 **Cristina Lazcano, Manuel Aira, María Gómez, Jorge Domínguez**
Earthworm casts as hotspots of soil nutrient dynamics in a pasture ecosystem
- 16.30 – 17.00 Coffee break
- 17.00 – 17.15 **Boris A. Byzov, Khomyakov N. V., Nechitaylo T. Ju., Golyshin P. N.**
The sensitiveness of soil bacteria at the digestive fluid in the gut of the earthworm *Aporrectodea caliginosa*
- 17.15 – 17.30 **C. Villenave, E. Kichenin, B. Rabary, Eric Blanchart**
Earthworm activity modifies soil nematofauna and biofunctioning according to quality and localization of crop residues (Madagascar)
- 17.30 – 17.45 **William O.C. Symondson, King, R. A., Harper, G. L., Harwood, J. D. & Bruford, M. W.**
Earthworms as prey of carabid beetles: the use of molecular markers to analyse predation in the field
- 17.45 – 18.00 General discussion and session summary
- 20.00 – 24.00 Symposium dinner

THURSDAY – September 7th

- 9.00 – 9.10 Welcome and introduction

Session 5: Behavioural and Evolutionary Ecology

Chairman: **Kevin R. Butt**

- 9.10 – 9.40 *Plenary* **R. Andrew King, Tibble, A. L. Morgan, A. J. & Symondson, W. O. C.**
Extreme genetic divergence and multiple co-occurring lineages within the earthworm *Allolobophora chlorotica*

- 9.40 – 9.55 **Klaus Richter, Martin Potthoff, Oliver Gailling, Reiner Finkeldey & Friedrich Beese**
 Variability and differences in European populations of *Lumbricus terrestris* as detected by molecular-genetic fingerprinting using the AFLP-technique
- 9.55 – 10.10 **Sven Marhan, P. M. Khopade, O. Butenschön, S. Haase, E. Kandler & S. Scheu**
 Food requirements and preferences of endogeic earthworms
- 10.10 – 10.25 **Yvan Capowiez, Bouchand Pierre, Cadoux Stéphane, Pelosi Céline, Roger-Estrade Jean, Boizard Hubert**
 Demonstration of the role of earthworms on the removal of highly compacted zones in field conditions
- 10.25 – 10.40 **Emilie Regnier, Clive Edwards, Norman Arancon, Kent Harrison, Jerron Schmoll**
 Seed foraging and caching by *Lumbricus terrestris*
- 10.40 – 11.00 Coffee break
- 11.00 – 21.00 Symposium excursion

FRIDAY – September 8th

- 9.00 – 9.10 Welcome and introduction
- Session 6: Earthworms and Soil Properties**
 Chairman: **Paul F. Hendrix**
- 9.10 – 9.40 **Daniel Carpenter, Mark E. Hodson, Paul Eggleton, Caroline Kirk**
 Earthworm induced mineral weathering – preliminary results
- 9.40 – 9.55 **Nikita S. Eriksen-Hamel, Joann K. Whalen**
 Modelling the contribution of earthworms to soil N pools and plant N uptake in Quebec agroecosystems.
- 9.55 – 10.10 **Petra C.J. van Vliet, B. van der Stelt and R.G.M. de Goede.**
 Effects of organic matter content on earthworms and nitrogen mineralization in grassland soils.
- 10.10 – 10.25 **Sarah E. Donovan, & Blackshaw, R. P.**
 The effects of an anecic and an epigeic earthworm species on soil amino acids; a significant source of organic nitrogen
- 10.25 – 10.40 **Alicia B. Speratti & Joann K. Whalen**
 Quantifying earthworm-induced nitrous oxide and carbon dioxide emissions from a corn agroecosystem
- 10.40 – 11.10 Coffee break
- 11.10 – 11.25 **Guénola Pérès, Schrader S., Cluzeau D., Hallaire V.**
 Earthworm species specific and organic matter effects on burrow properties and soil water movement
- 11.25 – 11.40 **Monika Joschko, Catherine A. Fox, Jens Timmer**
 Linking earthworm populations to soil properties in landscapes: potential of the state-space approach

- 11.40 – 11.55 **John Scullion, S. Neale & Philipps L.**
Earthworm casting and burrowing in conventional and organic farm systems.
- 11.55 – 12.10 **Shaun Roarty, Richard Hackett and Olaf Schmidt**
Effects of winter cover crops, reduced tillage and weed management on earthworm populations
- 12.10 – 12.25
12.25 – 12.40 General discussion and session summary
- 12.40 – 13.40 **Poster session 7, 8**
- 13.40 – 15.00 Lunch

Session 8: Earthworm Ecotoxicology and Risk Assessment

Chairman: **A. John Morgan**

- 15.00 – 15.30 **A. John Morgan, John Charnock, Andrew Bennett, Fariba Bahrami, Jane Andre, Dylan Gwynn Jones, Jake Bundy, Mark Hodson, Stephen Stürzenbaum, Peter Kille**
In situ compositional ‘fingerprints’ of earthworm chloragocytes: inter-population differences in field worms with multi-generational metal exposure histories.
- 15.30 – 15.45 **F. Brulle, G. Mitta, C. Cocquerelle, D. Vieau, S. Lemièrre, A. Leprêtre, Franck Vandembulcke**
Cloning and real-time PCR testing of 14 potential biomarkers in *Eisenia fetida* following cadmium exposure
- 15.45 – 16.00 **Jari Haimi, Yliniemi, I. & Knott, E.**
Has metal contamination affected clonal diversity of the earthworm *Dendrobaena octaedra*?
- 16.00 – 16.15 **Rudolf A. Maleri, A. J. Reinecke, S. A. Reinecke, J. Mesjasz-Przybylowicz, W. Przybylowicz**
Ecotoxicological responses of earthworms to ultramafic soils
- 16.15 – 16.30 **Arnold R.E., Mark E. Hodson**
Effect of time and mode of depuration on tissue copper concentrations of the earthworms *Eisenia andrei*, *Lumbricus rubellus* and *Lumbricus terrestris*
- 16.30 – 17.00 Coffee break
- 17.00 – 17.15 **Subpiramanivam Sivakumar, D. Prabha & C. V. Subbhuraam**
Effects of Chromium (III) and Chromium (VI) on the growth and reproduction of the earthworm *Eisenia fetida*.
- 17.15 – 17.30 **Gao Yuhong, Sun Zhenjun**
Toxicity of Albendazole on adenosine triphosphatase and acid phosphatase activities of earthworm
- 17.30 – 17.45 **Magali Rault, Mazzia C., Denoyelle R., Mascle O., Capowiez Y**
Validation of cholinesterase inhibition as a biomarker of exposure for earthworms in apple orchards
- 17.45 – 18.00 **Lindsey Norgrove**
Effects different fungicide application rates over four years upon earthworm cast production in cacao systems in Southern Cameroon

- 18.00 – 18.15 **Christopher N. Lowe and Kevin R. Butt**
The use of earthworms as a test organisms in ecotoxicology: A critical review
- 18.15 – 18.30 General discussion and session summary

SATURDAY – September 9th

- 9.00 – 9.10 Welcome and introduction
- 9.10 – 10.40 **Workshops**
- Workshop 1: **"EARTHWORM SPATIAL MODELLING ISSUES AT REGIONAL SCALES"**
- Workshop 2: **"LUMBRICUS TERRESTRIS: A MODEL FOR EARTHWORM BEHAVIOURAL AND POPULATION ECOLOGY"**
- Workshop 3: **"EARTHWORM IMMUNITY"**
- Workshop 4: **"FUTURE OF LARGE-SCALE AND SMALL-SCALE VERMICOMPOSTING AROUND THE WORLD"**
- 10.40 – 11.10 Coffee break
- Session 8: Applied Earthworm Biology**
Chairman: **James Curry, Joanna Kostecka**
- 11.10 – 11.25 *Plenary* **Clive A. Edwards and Norman Q. Arancon**
Mechanisms by which earthworms interact with plant pathogens, plant parasitic nematodes and invertebrate pest arthropods
- 11.25 – 11.40 **Frederickson J., Howell G. & Hobson A. M.**
Performance and environmental impact of a combined in-vessel composting and vermicomposting system
- 11.40 – 11.55 **María Gómez-Brandón, Cristina Lazcano and Jorge Domínguez**
Microbial community changes during the vermicomposting of spent grape marc
- 11.55 – 12.10 **S. V. Shoba, Radha Kale**
Antimicrobial potency of *Eudrilus eugeniae* extracts on certain plant pathogens
- 12.10 – 12.25 **Knight, S., Clive A. Edwards, Lanno, R. P., Arancon, N. Q., Voight, A., Dick, R.,**
Applications of vermicompost and vermicompost tea in the bioremediation of PAH contaminated soil
- 13.10 – 14.30 Lunch
- 14.30 – 14.45 **James Curry, Paul Doherty, Gordon Purvis and Olaf Schmidt**
Relationships between earthworm populations and management intensity in cattle-grazed pastures in Ireland

- 14.45 – 15.00 **Catherine Fox, Ian Jarvis, & Monika Joschko**
Modeling at regional scales the potential available resources for
sustaining earthworm populations
- 15.00 – 15.15 **Pascal Jouquet, J. Mathieu, N. Bottinelli, P. Podwojewski, D. Orange,**
T. Toan
Land use change, earthworm diversity and activity, and soil erosion
- 15.15 – 15.30 **Bart Muys, Raf Aerts, Jan Valckx, Hans Baeté, Bruno de Vos**
Acidification and soil rehabilitation of Atlantic broadleaved forests on
loamy soils using earthworm reintroduction: an example of alternative
stable states?
- 15.30 – 15.45 **M. Vikram Reddy & A. Narayana Goud**
Effects of agrochemicals (fertilizers and insecticides) on juvenile
earthworm population densities in semi-arid tropical rice (*Oryza sativa L.*)
paddies (India)
- 15.45 – 16.00 General discussion and session summary
- 16.00 – 16.30 Coffee break
- 16.30 – 17.10 Workshops summary
- 17.10 – 17.45 **Clive A. Edwards, Dennis Parkinson**
Critique and overview of ISEE8
- 17.45 – 18.30 Closing Session

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