ISMOM 2008
5th International Symposium of Interactions of Soil Minerals with Organic Components and Microorganisms of Commission 2.5 Soil Interfacial Reactions of the International Union of Soil Science

Soil-Root-Microbe Interactions and the Impact on the Transformations and Fate of Nutrients and Pollutants in the Ecosystem

24 – 29 November 2008
Pucón, Chile

Second Announcement
Welcome to ISMOM 2008

We are very pleased to invite you to attend the 5th ISMOM and 2nd Interconference Commission 2.5 IUSS - 2008 organized by the Working Group MO “Interactions of Soil Minerals with Organic Components and Microorganisms” of the International Union of Soil Sciences, now Commission 2.5: Soil Physical/Chemical/Biological Interfacial Interactions. The meeting is to be held in Pucón, Southern Chile, on November 24-28, 2008, in spring time.

Objective

The objective of this symposium is to provide a forum for the interactions of environmental chemists and mineralogists, environmental microbiologists, ecologists, toxicologists and soil scientists to address the current state-of-the-art and identify gaps in knowledge on physicochemical and biological interfacial interactions at the molecular level at the soil-root interface (the rhizosphere) pertaining to the dynamics, transformations, bioavailability, and toxicity of metals, metalloids, anthropogenic organics, and vital elements.

This activity should lead to the advancement of frontiers of knowledge on environmental chemistry on soil interfacial reactions in the rhizosphere and the subsequent development of innovative management strategies to sustain environmental quality, ensure food security and safety, and ecosystem health on a global scale.

Topics

The main topics of the scientific program of the proposed Congress were selected to facilitate the interactions of soil chemists, soil biochemists, soil mineralogists, microbiologists and environmental scientists with the intention of promoting discussions and exchanging information on the ecological significance of the interactions among clay minerals, organic matter and soil biota. The close association and interactions between abiotic and biotic entities in soil environments, particularly at the soil-root interface, govern (i) the dynamics and transformations of nutrients, pollutants, and natural and anthropogenic organics, and metabolic processes, growth and ecology of microbes and (ii) the impact on agricultural production, environmental protection, and ecosystem integrity.

Conference site

The Conference and exhibitions will be held at the Convention Center of Hotel del Lago, Pucón. The Hotel provides comfortable halls equipped with advanced technology, specially designed for congresses, conventions, seminars, banquets and social events.
PROGRAM

Monday, November 24, 2008
Registration and Welcome cocktail

Tuesday, November 25, 2008
Opening ceremony

Chairperson: Dra. María de la Luz Mora
Prof. Sergio Bravo, Rector, Universidad de La Frontera
Dr. Jacques Berthelin, Chair, Commission 2.5, IUSS
Dr. Erick Zagal, Chair, Chilean Soil Science Society

Inaugural Plenary Session
Physicochemical and biological interfacial interactions in the rhizosphere and the impact on food safety and biodiversity
Keynote lecture: Dr. P.M. Huang. University of Saskatchewan, Canada.

Session 1. Ecological Significance of Interactions among Clay minerals, Organic Matter and Biota

Lectures
The cycling and chemical composition of organic matter in soil aggregates, nanocomposites and soluble pools in the rhizosphere.
Invited lecture: Carlos Monreal, Agriculture and Agri-Food Canada, Ontario, Canada.

Adsorption of proteins at solid surfaces and protein complexation with humic acid.
Invited lecture: Willen Norde, University of Wageningen, The Netherlands.

8 Oral presentations
Poster presentations

Chilean Folklore Show
Wednesday, November 26, 2008

Plenary session
Solute interactions in soils in relation to bioavailability and remediation of the environment
Keynote lecture: Dr. N.S. Bolan. University of Massey, New Zealand

Session 2. Soil-Root-Microbe Interaction & their Effects on the Transformation & Bioavailability of Nutrients

Lectures
Soil-root-microbe in the rhizosphere - a key to understanding and predictions of nutrient bioavailability to plants
Invited lecture: Philippe Hinsinger, INRA-ENSA. M-UMR, France.

Bioavailability of Phosphorus and Micronutrients in the soil-plant-microbe continuum.

8 Oral presentations

Poster presentations

Gala Dinner
Thursday, November 27, 2008

Plenary session
Metals and Metalloids.
*Keynote lecture: Donald Sparks, Department of Plant and Soil Sciences. University of Delaware, USA.*

**Session 3. Soil-Root Microbe Interaction & Their Effects on Biophysical Transformation, Fate, and Toxicity of Metal and Metalloids**

**Lectures:**
Trace Elements in the Environmental.
*Invited lecture: Domy C. Adriano, Savannah River Ecology Laboratory, University of Giorgia, USA.*

Contaminant Fate, Dynamics and Bioavailability: Biochemical and Molecular Mechanism at the Soil: Root interface.
*Invited lecture: Ravi Naidu, Centre for Environmental Risk Assessment and Remediation, University of South Australia.*

8 Oral presentations

Poster presentations

Conference Tour

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Friday, November 28, 2008
Plenary session
Enzymes of Significance to the Restoration of Polluted Systems: Traditional and Advanced Approaches.
*Keynote lecture:* Liliana Gianfreda, Dipartimento di Scienze del Suolo, della Pianta e dell’Ambiente, University of Napoli, Italy.

Session 4: Dynamics and Transformations of Natural and Xenobiotic Compounds in Soil Environments

Lectures:
*Invited lecture:* Nicola Senesi, Dipartimento di Biologia e Chimica Agroforestale e Ambientale. University of Bari, Italy.

Use of nanoparticles in soil-water bioremediation processes.
*Invited lecture:* Nelson Duran, Instituto de Química, University Estadual de Campinas S.P, Brasil.

4 Oral presentations

Session 5: Environmental Biotechnology: Biochemical and Molecular Mechanisms of Microbe-Plant-Root Interactions & Their Genomic & Proteomic Advances Pertaining to Restoration of Contaminated Soils.

Microbe-Soil-Root Interactions: Communication and bioremediation.
*Invited lecture:* Richard Burns, School of Land and Food Sciences, The University of Queensland, Australia.

Interaction with soil constituents determines the environmental impact of proteins.
*Invited lecture:* Hervé Quiquampoix, UMR Rhizosphère et Symbiose, INRA-ENSAM, Mompellier, France.

4 Oral presentations

Poster presentations
Saturday, November 29, 2008

Closing Symposium Ceremony

Post-Conference Tour

Travel Agency:

[CoCHA logo]

Contact: Mr. Jorge Clavel

jclavel@cocha.com
www.cocha.com

El Bosque Norte 0430
Las Condes, Santiago - Chile
Tel: (56 2) 4641000
CALL FOR PAPERS

We are pleased to invite you to actively participate in the Fifth International Symposium of Interactions of Soil Minerals with Organic Components and Microorganisms of Commission 2.5 Soil Interfacial Reactions of the International Union of Soil Science and to present the most recent findings of your research on Soil-Root-Microbe Interactions and the Impact on the Transformations and Fate of Nutrients and Pollutants in the Ecosystem. All authors, oral and poster presenters, are requested to fill out the abstract form directly in the symposium website www.ismom2008ufro.cl. Please follow carefully the instructions and submit your abstract not later than May 1st, 2008 (oral presentations) and 30th June (poster presentations). Notifications of authors chosen for oral and poster presentations will be soon after August 30th, 2008.

REGISTRATION FEE

The registration fee includes welcome cocktail, Chilean folklore show, gala dinner, all scientific sessions, four symposium lunches, coffee breaks and book and CD abstracts. The registration fee for accompanying persons includes welcome cocktail, Chilean folklore show, gala dinner, lunches and coffee breaks at the Symposium Venue.

Registration Fee

Participant fee includes: welcome cocktail, Chilean folklore show, gala dinner, all scientific sessions, four symposium lunches, coffee breaks and book and CD abstracts.

Accompanying persons includes: welcome cocktail, Chilean folklore show, gala dinner, lunches and coffee breaks at the Symposium Venue

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<th>Early Registration (by October 1st)</th>
<th>Late registration (after October 1st)</th>
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<tr>
<td>Scientist participants</td>
<td>US 450</td>
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<tr>
<td>Students/Younger scientists</td>
<td>US 300</td>
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<td>Scientists from developing countries</td>
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<tr>
<td>Accompanying person fee</td>
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<td>US 220</td>
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Please register by the web-site
www.ismom2008ufro.cl

PRE-REGISTRATION FORM
(Please submit a separate form for each participant)

Please complete the Pre-registration form and send it through the conference web-site:
www.ismom2008ufro.cl

First Name ____________________________________________

Last Name ____________________________________________

Ms. ___  Mr. ___  

Phone ____________________  Fax ____________________

e-mail ____________________

Tentative title of the presentation _______________________

________________________________________________________________________

Name(s) and last name of accompanying person(s)

1 _____________________________________________________

2 _____________________________________________________
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<th>Date</th>
<th>Event</th>
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<tr>
<td>November 24</td>
<td>Welcome cocktail (afternoon)</td>
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<tr>
<td>November 25</td>
<td>Chilean Folklore Show</td>
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<td>November 26</td>
<td>Gala Diner</td>
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<td>November 27</td>
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* Not include in the registration fee
**IMPORTANT DEADLINE**

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<tr>
<th>Event</th>
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<tr>
<td>Pre-registration</td>
<td>January 30(^{th}) 2008</td>
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<tr>
<td>Submission of abstracts along with complete form for volunteered oral</td>
<td>April 30(^{th}) 2008</td>
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<tr>
<td>Submission of abstracts along with complete form for volunteered poster</td>
<td>June 30(^{th}) 2008</td>
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<td>Applications form Young Scientists from South America (download application form from symposium web-site <a href="http://www.ismom2008ufro.cl">www.ismom2008ufro.cl</a>)</td>
<td>May 30(^{th}) 2008</td>
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<td>Notifications of authors chosen for oral and poster presentations</td>
<td>August 30(^{th}) 2008</td>
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<td>Final announcement</td>
<td>Before September 30(^{th}) 2008</td>
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CONTACTS

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