



## European Geosciences Union General Assembly 2011

Vienna | Austria | 03 – 08 April 2011

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Dear Colleagues,

we are pleased to inform you that the Call-for-Papers programme of the **European Geosciences Union (EGU) General Assembly 2011 (Wien, Austria, 03 - 08 April 2011)** is now open.

On behalf of the Programme Committee, we cordially invite you to submit abstracts to the session: **"Influence of humification processes on the 'reliability' of peats and sediments as archives of environmental changes"** (Division Soil System Sciences, Session **SSS1.1**).

**The deadline for the submission of abstracts is January 10, 2011.**

In case you would like to apply for financial support (see [http://meetings.copernicus.org/egu2011/support\\_and\\_distinction/financial\\_support.html](http://meetings.copernicus.org/egu2011/support_and_distinction/financial_support.html)), please submit no later than **December 3, 2010**.

The description of the Session can be found at <http://meetingorganizer.copernicus.org/EGU2011/sessionprogramme/SSS>, while information about EGU itself can be found at <http://www.egu.eu>.

### **Abstract Registration**

During the abstract registration, an author can give his/her preference on whether a contribution should be a poster (choice "Poster") an oral presentation (choice "No preference", since there is no guarantee for oral presentations). Please note that an author is not allowed to submit more than one regular abstract and one solicited abstract with the choice "No preference". Of course, poster presentations are always welcome.

### **Financial Support**

A limited amount of the overall budget of the conference is reserved to assist, as a priority, the younger and more recently established scientists to attend the assembly; moreover, conveners may also support some of the solicited speaker in their session.

Authors are kindly asked to submit their abstract via the link "Abstract Submission with Support Application", located below each session title.

Please remark that the deadline for the receipt of abstracts with support applications is 3 December 2010!

Please do not hesitate to contact us or the EGU Organizing Committee ([egu2011@copernicus.org](mailto:egu2011@copernicus.org)) if you have any questions.

We hope that we can stimulate your interest in Session SSS1.1, and we are looking forward to receive your contribution!

Kind regards,

*Claudio Zaccone* (Convener); *Luga Bragazza, Teodoro M. Miano, William Shotyk* (Co-Conveners)



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# **European Geosciences Union (EGU) General Assembly 2011**

**Vienna, Austria, 03 – 08 April 2011**

<http://meetings.copernicus.org/egu2011/home.html>

**Division: Soil System Sciences (SSS)**

**Session: SSS1.1**

**“Influence of humification processes on the ‘reliability’ of peats and sediments as archives of environmental changes”**

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### Presentation

*Peatlands and sediments have been often used during the last decades in order to reconstruct the historical trends of heavy metals and organic pollution due to both natural (e.g., volcanic emissions, dust transport) and anthropogenic activities, as well as a record of past climatic and vegetational changes. However, humification and decay processes can potentially affect the “reliability” of peatlands and sediments as archives of environmental changes.*

*This session represents the occasion for scientists dealing with environmental changes, sedimentary geochemistry, carbon cycling and environmental pollution to convene and discuss about topics of common interest. Therefore, the session will closely focus on the dynamics and the effects of humification processes on stable isotope signatures (i.e.,  $\delta^{13}\text{C}$ ,  $\delta^2\text{H}$ ,  $\delta^{15}\text{N}$ , and  $\delta^{18}\text{O}$ ), on depositional trends of organic and inorganic pollutants (e.g., major and trace elements, radionuclides, PAHs, PCBs), on  $^{210}\text{Pb}$  age dating of profiles, as well as on organic matter dynamics in these environments (e.g., stabilization and preservation mechanisms, sequestration).*