

Autorin und Unterlagen von PD Dr. Daniela Sauer

IUSS Comission 1.6 Paleopedology

<http://groups.google.com/group/Paleopedology>

<http://sites.google.com/site/palaeopedology/>

Chair: Daniela Sauer

Vice-Chair: Sergey Sedov

Secretary: Alexander O. Makeev

Events 2011

INQUA Congress in Bern/Switzerland, 21-27 July 2011

Palaeopedology Session with 3 oral blocks (18 talks) + 15 posters:

“Indicators of climatic changes in saprolite, paleosols, polygenetic soils, and soil sediments”

(Conveners: Daniela Sauer, Mohammed Rafi Sayyed, Birgit Terhorst)

Interdisciplinary session with 2 oral blocks (9 talks) + 26 posters:

“Reconstructing environmental impacts of climate changes from MIS 5 to present, based on terrestrial and/or lacustrine archives”

(Conveners: Stefano Carnicelli, Valérie Andrieu-Ponel)

“Landscapes & Soils through Time”

Joint Conference of IUSS Commissions 1.6 Palaeopedology & 1.3 Soil Geography

28 July – 1 August 2011 in Hohenheim University, Stuttgart, Germany

(60 participants, 30 talks, 29 posters) <https://ppsg2011.uni-hohenheim.de/>

organized by: Daniela Sauer, Reinhold Jahn, Karl Stahr

3 Young Scientists Awards oral presentations (alphabetical order):

Björn Buggle (Bayreuth), Martina Gocke (Bayreuth) , Michael Zech (Bayreuth) & Roland Zech (Zürich)

3 Young Scientists Awards posters (alphabetical order):

Jochen Berger (Hohenheim), Tobias Sprafke (Würzburg), Rosa E. Tovar (Mexico City)

3rd Geochronology Summer School in Bergün, Switzerland, 4-9 September 2011

Organizers: Markus Egli, Dagmar Brandova, Paolo Cherubini, Holger Gärtner, Susan Ivy-Ochs, Klaus Felix Kaiser

Events 2012

EGU Vienna 22-27 April 2012

Session “Soils as record of the past” – 1 oral block (6 talks) + 15 posters

Conveners: C. Zaccone, J. van Mourik, C. Barbante, S.J. Kluyving

EGU Division Soil System Sciences

President: Artemi Cerdà

Committee “Soil as Record of the Past”

Chair: Jan van Mourik (Amsterdam)

Goldschmidt Congress Montréal, Canada, 24-29 June 2012

Session “Records of climate change from terrestrial archives: palaeosols and loess”

Conveners: Mohammed Rafi G. Sayyed, Martine Gerard

Eurosoil Congress Bari, Italy, 2-6 July 2012

Session *“Soils and sediments as natural archives”* – 2 oral blocks (12 talks) + 31 posters

probably on Wednesday, 4 July, 8.30-12.00 (oral session) and 17.00-18.30 (posters)

Conveners: Daniela Sauer, Claudio Zaccone, Alexander O. Makeev, Sylvie Quideau

Business Meeting of the Palaeopedology Commission probably on Thursday, 5 July, 18.30-20.00

14th Int. Working Meeting on Soil Micromorphology in Lleida, Spain, 8-14 July 2012

Session *“Micromorphology for Palaeopedology”* – 2 oral blocks (10 talks) + 7 posters

Conveners: Daniela Sauer, Sergey Sedov, Peter Kühn

Int. Conference „Geomorphic Processes and Geoarchaeology - From Landscape Archaeology to Archaeotourism“ in Moskau-Smolensk, Russia, 27-31 August 2012 <http://geoarch2012.narod2.ru/>

4th Int. Geochronology Summer School in Bergün, Switzerland, 2-7 September 2012

Organizers: Markus Egli, Holger Gärtner, Paolo Cherubini, Susan Ivy-Ochs

Events 2013 and beyond

Int. Symposium and Field Workshop in Kursk, Russia, August 2013

Two days of oral and poster presentations and a four-day field workshop

Field workshop:

- Middle and Late Pleistocene loess-paleosol and pedo-sedimentary sequences, comparable with the most complete loess sections in Europe
- Chernozems under natural vegetation in the Alekhin State Biosphere Reserve
- Paleolithic sites Kostiënki and Divnogor'e with paleosols related to MIS 2 and MIS 3
- Holocene floodplain soil-sedimentary sequences of the Don River

Contact: Dr. Maria Bronnikova, secretary of the Organizing Committee

E-mail: paleopedology2013@gmail.com

“SOILS IN SPACE AND TIME” IUSS Division 1 Conference Ulm, Germany, September 30 - October 4, 2013

Organizers: Karl Stahr et al.

<https://iuss-division1.uni-hohenheim.de/>

Symposia of Commission 1.6 Palaeopedology

1.6.1 *Qualitative and quantitative indicators of environmental changes in paleosols and polygenetic soils*

1.6.2 *Soil forming processes - rates, thresholds and changes in rates over time*

Joint Symposium of Commissions 1.1 Soil Morphology and Micromorphology & 1.6 Palaeopedology

e.g. *Macro- and micromorphology of paleosols as sources of palaeo-environmental information*
or

Soil morphological indicators of past environments

1-day excursion on soils, geomorphology and geoarchaeology of the Blau and Danube Valleys

(Daniela Sauer, Peter Kühn, Christopher Miller, Joachim Eberle)

20th World Congress of Soil Science Jeju, South Korea, 6/2014

Commission 1.6 Palaeopedology

Paleosols and pedosedimentary sequences for understanding impacts of climatic changes on terrestrial ecosystems

Conveners: Alexander Makeev, Mohammed Rafi G. Sayyed

Quantitative palaeo-environmental proxies in paleosols

Conveners: Peter Kühn, Curtis Monger

Joint Symposium of Commissions 1.1 Soil Morphology and Micromorphology & 1.6 Palaeopedology

Micromorphological answers to palaeopedological and polypedogenetic questions

Conveners: Rosa Maria Poch, Daniela Sauer

Int. Conference and Field Workshop on Paleopedology in Toruń, Poland 2014

Main organizer: Michal Jankowski

International Symposium and Field Workshop on Paleopedology in Lincoln/Nebraska, USA 2015

Organizers: Peter Jacobs and Matt Joeckel

Publications

Special Issue of Quaternary International

Papers of the World Congress of Soil Science in Brisbane 2010 and the Conference “Soil Geography: New Horizons” in Huatulco, Mexico, 16-20 November 2009

Guest Editors: Peter Jacobs, Sergey Sedov

State: Completed, to be published in July (No. 266)

Special Issue of Catena

Papers of the Hohenheim Conference “Landscapes & Soils through Time”

Guest Editors: Daniela Sauer, Reinhold Jahn, Associate Editor: Karl Stahr

State: Submission deadline was 30 April, we are still waiting for several manuscripts

Other activities

INQUA

New Focus Area Group PASTSOILS – Paleosol and soil analysis for assessing climate, time and duration of land surface stability of Quaternary terrestrial systems

Leaders: Daniela Sauer, Rivka Amit, Sergey Sedov

Project RAISIN: Rates of soil forming processes obtained from soils and paleosols in well-defined settings

- review, compare and summarize studies on rates of soil forming processes
- obtain general rules of soil formation rates under defined climatic conditions
- outcome of this work will be useful for any earth scientist interpreting Quaternary continental sequences, evaluating geomorphological and environmental stability, weathering rates, dust influx in soils, and chronologies

Daniela Sauer (First main coordinator and coordinator of subgroup RAISIN-arid)

Sergey Sedov (Second main coordinator)

Dennis Dahms (N-American Coordinator of subgroup RAISIN-cool)

Markus Egli (European Coordinator of subgroup RAISIN-cool)

Fabio Scarciglia (Coordinator of subgroup RAISIN-Mediterranean)

Mike Akaegbobi and Pauline Y.D. Da Costa (Coordinators of subgroup RAISIN-tropics)

Project AEOMED: Loess deposits and aeolian additions to current surface soils and paleosols in Mediterranean climate

Leaders: Rivka Amit and Stefano Carnicelli

Long term objectives:

- assess the spatial pattern of primary and secondary loess deposits across the Mediterranean
- analyze primary loess successions in similar geomorphic units of various Mediterranean environments, in order to evaluate the contribution of proximal / distal dust sources to the formation of Mediterranean soils
- estimate the potential of dust emission and deposition in the various Mediterranean regions, based on the understanding of the mechanisms of dust generation, transport and deposition
- evaluate the rates of loess/dust deposition in the context of palaeo-climate reconstructions
- detect sources of recent and palaeo-dust/loess around the Mediterranean

Objectives for first year:

- build a data base of available data relevant to dust in soils and loess successions in Mediterranean regions
- pinpoint missing information
- identify and map relevant study areas for future research

