

Deutsches Lumineszenz- und ESR-Treffen **German Luminescence- and ESR-Meeting**

Gießen / Rauschholzhausen 14. - 16. November 2014



Freitag / Friday, 14.11.2014

12:00 Uhr **Registrierung / Registration**

1. Session, Chair: Norbert Mercier

13:45 Uhr **Begrüßung / Welcome**

14:00 Uhr C. Schmidt: Thermochronometry using red TL of quartz - concept and first results from in-situ drill-hole samples

14:25 Uhr S. Huot: Evidence of shallow TL peaks contributions in infrared phosphorescence in IR-RF

14:50 Uhr T. Reimann: New insights from a thermally and optically transferred IRSL (T-IRSL) feldspar signal

15:15 Uhr **Kaffeepause / Coffee break**

2. Session, Chair: Frank Preusser

15:45 Uhr N. Mercier: The violet stimulated luminescence signal of quartz

16:10 Uhr J. Wallinga: Age estimation of poorly bleached deposits using bootstrapped age models

16:35 Uhr L. Zöller: "Early LGM" in Central Europe?

17:00 Uhr **Poster Kurzvorstellung (ca. 1 Min. per Poster) / Short presentations**

17:30 Uhr **Poster-Session**

19:00 Uhr **Abendessen / Dinner**

21:00 Uhr **Kellerbar**

Samstag / Saturday, 15.11.2014

Ab/From 7:30 Uhr **Frühstück / Breakfast**

08:30 Uhr **Workshop: Diskussion in Gruppen / Discussion in groups**

1. What is the best way to determine feldspar De-values (fading, post-IR-protocols, sensitivity changes etc): **Sumiko Tsukamoto & Tony Reimann**
2. CCD-based detection techniques: Cameras and spectrometers: **Dirk Mittelstraß & Clemens Woda**
3. New software: Adele, Ages galore, Geant 4, R Luminescence: **Micha Dietze & Loic Martin**
4. New methods for old sediments: IR-RF (**Sebastien Huot**), VSL (**Christina Ankjaergaard**), TA-OSL (**Georgios Polymeris**)

10:00 Uhr **Kaffeepause / Coffee break**

10:30 Uhr	Workshop Präsentation und Diskussion / Presentation and discussion
12:30 Uhr	Mittagessen / Lunch
14:00 Uhr	Wanderung / Conference hike
19:00 Uhr	Conference Dinner

Sonntag / Sunday, 16.11.2014

Ab/From 7:30 Uhr Frühstück / Breakfast

3. Session, Chair: Marion Hernandez

8:30 Uhr	K. Dornich: <i>lexsyg</i> : neuste technische Entwicklung
8:55 Uhr	D. Richter: Development of an automated x-ray irradiator for dosimetric application in <i>lexsyg</i> systems"
9:20 Uhr	M. Discher: Proof of concept: Emergency dosimetry in a realistic irradiation scenario using fortuitous dosimeters
9:45 Uhr	M. Meyer: Mapping beta-heterogeneity in sediment thin-sections on the micro-scale level using QEMSCAN and microprobing
10:05 Uhr	Kaffeepause / Coffee break

4. Session, Chair: Christopher Lüthgens

10:30 Uhr	C. Woda: Luminescence dosimetry in the contaminated former village of Metlino, Southern Urals, Russia
10:55 Uhr	T. Kolb: The timing of river terrace formation - a case study from the headwaters of the River Main
11:20 Uhr	D. Brill: Holocene cyclone and tsunami chronologies using luminescence dating
11:45 Uhr	J. Zhang: Bleaching properties of post-IR IRSL signals at different preheat and stimulation temperatures

Poster presentations

- C. Ankjaergaard** Towards dating the full Quaternary with violet stimulated luminescence
- M. Bartz** Luminescence dating of alluvial sediments - Landscape dynamics around the Palaeolithic site Ifri n'Ammar, Morocco
- J. Böskén** OSL & pIRIR290 dating of the Stalac loess profile, Serbia
- C. Burow** Shiny R.Lum - Interactive web applications for the R packages 'Luminescence' and 'ESR'
- A. Fülling** Risø vs Lexsyg: Comparing palaeodoses determined on two different measurement systems
- J. Gerz** OSL-Datierungen an archäologischen Befunden im Mitteldeutschen Trockengebiet
- L. Gliganic** SG-OSL investigations of sediments from three sand-bed rivers
- D. Hamann** Luminescence dating of feldspar from glacial surroundings to interpret the landscape history of Western Mongolia
- J. Hardt** Geochronological analyses (OSL) of glaciofluvial sediments in the proximity of the Frankfurt ice marginal position on the Barnim till plain (Brandenburg)
- F. Hartung** Dose rate determination for luminescence dating
- M. Hernandez** Issues and perspectives for a broadly applicable Violet Stimulated Luminescence dating method
- M. Kenzler** OSL dating of Weichselian sediments from the Jasmund peninsula (southwestern Baltic Sea)
- T. Lauer** Luminescence dating of the Toshan and Agh Band loess profiles, Northern Iran
- S. Lindauer** TL-Dating of pottery in Nigeria
- C. Lüthgens** Dependence of luminescence properties of quartz and feldspar from Taiwan (ROC) on sediment provenance
- L. Martin** Dosimetry of heterogeneous sediments: modelisation at different scales with softwares created with the Geant4 toolkit
- N. Meriç** Accidental retrospective dosimetry using the 270 °C thermoluminescence peak in color pencils
- S. Merkel** Luminescence dating of drilled samples from Chew Bahir, Ethiopia
- D. Mittelstraß** Spatially resolved luminescence measurements – problems and potentials
- G. Polymeris** Thermally assisted OSL from Very Deep Traps
- E. Şahiner** Preliminary results towards the de-convolution analysis of thermally assisted optically stimulated luminescence (ta-osl) in natural quartz
- T. Schüler** First experiences with Geant4 - Scintillation gamma spectroscopy of the loess reference in Weimar
- D. Strebler** TL dating of heated flints using MAAD and SAR protocols
- M. Trauerstein** Challenges in using luminescence dating to provide age control on Late Quaternary soil development on the central Swiss Plateau
- C. Tribolo** No title announced
- S. Tsukamoto** Luminescence characteristics of plagioclase in Icelandic basalts
- S. Vranjes** Determination of the instrumental error on the Risø SG-Reader at the University of Innsbruck
- V. Wessel** OSL dating of slot pits in the Rhineland
- C. Wyshnytzky** To be determined
- C. Zeeden** Towards higher precision luminescence ages through including stratigraphic information
- J. Zens** Integrating age information from different localities for stratigraphic marker beds: discussion of the Eltville Tephra age

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