

UKLUM15 Meeting Programme

Wednesday 8th July

0800-0900	Registration	Room 412
0900-0920	Welcome addresses	East Quad Lecture Theatre
0920-1020	Session 1 Opening session	Chair Dr. Simon Armitage
0920-0940	Stone, Abi , Bateman, M.D., Thomas, D.S.G.	Rapid preliminary age assessment in the Namib Sand Sea
0940-1000	Sahar al Khasawneh , Andrew Murray, Reza Sohbaty, Kristina Thomsen, Dominik Bonatz	Dating a Near Eastern desert hunting trap (kite) using rock surface dating
1000-1020	Sumiko Tsukamoto , Taro Takeuchi, Atsushi Tani	Can we date gut strings using ESR?
1020-1050	Coffee	Room 412
1050-1230	Session 2 Sedimentary applications	Dr. Julie Durcan
1050-1110	Daniela Constantin , Alida Timar-Gabor, Qingzhen Hao	Fine and coarse quartz OSL dating: Chinese loess vs SE European loess
1110-1130	Piotr Moska , G. Adamiec, Z. Jary and A. Bluszcz	OSL chronostratigraphy of loess-palaeosol sequences in Poland using different dating methods
1130-1150	Nathalie Diaz , Georgina E. King, Pierre G. Valla, Fabienne Dietrich, David Sebag, Frédéric Herman, Eric P. Verrecchia	Luminescence and radiocarbon dating of pedogenic carbonate nodules: palaeo-climatic implications for the Chad basin
1150-1210	ChongYi E , Reza Sohbaty, Andrew Murray, Jan-Pieter Buylaert	Luminescence dating of the Hebei Loess section on the North Eastern Tibetan Plateau using OSL IRSL and post-IR signals
1210-1230	Jinfeng Liu , Reza Sohbaty, Andrew S. Murray, Benny Guralnik, Mayank Jain, Jie Chen, Ming Luo	Optically stimulated luminescence surface dating of glacial and landslide boulders from the Pamir Plateau
1230-1400	Lunch	Room 412

1400-1520	Session 3 Dosimetry and dosimetry materials	Chair Dr. Lorna Carmichael
1400-1420	Makaiko Chithambo	Temperature-dependence of time resolved luminescence from alpha-Al ₂ O ₃ :C
1420-1440	Loïc Martin , Sébastien Incerti, Norbert Mercier	Testing the DosiVox software for basic dosimetric cases. Comparison with tabulated data
1440-1500	Franz Hartung , Nicole Klasen, Jürgen Henniger, Alfred Dewald, Helmut Brückner	Gamma-dose rate determination using in-situ BeO dosimeters
1500-1520	Guillaume Guérin , Jain, M, Mihailescu, L.C.	Luminescence (OSL, Post-IR-IRSL) efficiency dependence on x-ray energy : measurements and implications for dating
1520-1600	Tea	
1600-1800	Poster session 1	Room 412
1800-1930	Drinks reception	Room 412

Thursday 9th July

0830-1010	Session 4 Statistical aspects	Chair Dr. Dimitri Vanderberghe
0830-0850	David Strebler , Dominik Brill, Christoph Burow, Helmut Brückner	Using R for TL dating
0850-0910	Grzegorz Adamiec , Andrzej Bluszcz, Aleksandra J. Heer	Estimation of De error when statistics of count numbers deviate from Poisson distribution
0910-0930	Aleksandra Heer , Grzegorz Adamiec, Andrzej Bluszcz	Improved age estimation in NW alpine forelands by applying new research on statistics of count numbers registered by PM tube
0930-0950	Debra Colarossi , G.A.T. Duller, H.M. Roberts	Single grain equivalent dose measurements of feldspars from incompletely bleached sediments
0950-1010	Nathan Jankowski , Ian Bailiff, Lisa Snape-Kennedy	Application of time and spatially resolved laser scanning for characterisation of coarse grained sediment samples
1010-1030	Coffee	Room 412

1030-1210	Session 5 Landscape dynamics	Chair Dr. Tim Kinnaird
1030-1050	Grzegorz Poręba , P. Moska, P. Mroczek, J. Rodzik	Holocene soil erosion based on luminescence measurement and soil properties
1050-1110	Miguel Castillo, Esperanza Muñoz-Salinas , David Sanderson, Tim Kinnaird, Luca Ferrari, José Luis Arce, Epifanio Cruz-Zaragoza	Using OSL for interpreting sediment transport processes: From mountain rivers of the Jalisco Block to alluvial deposits at the Usumacinta-Grijalva River Basin (Mexico)
1110-1130	Eric Portenga	Valley bottom preservation and disturbance in the southeastern Tablelands of post-European Australia
1130-1150	Iben Hougard , Simone Pedersen, Andrew Murray, Lars Clemensen	Evolution of the Skagens Odde spit based on OSL dating using quartz and feldspar
1150-1210	Georgina King , Frederic Herman, Pierre G Valla, Benny Guralnik	Quaternary Exhumation of Namche Barwa constrained using Low temperature OSL thermochronology
1210-1400	Lunch	Room 412
1400-1530	Session 6 Luminescence processes	Chair Professor Makaiko Chithambo
1400-1420	Amit Kumar Prasad , Mayank Jain, Torben Lapp, Myung Ho Kook, Nigel R. J. Poolton	A comparative study on XEOL, RL, TL, PL, and OSL emission spectra of Na and K rich feldspars
1420-1440	Renske Lambert , G.E. King, F. Herman, P.G. Valla	Investigating kinetic processes of K feldspar for the application of luminescence thermochronology on the Mont Blanc Massif
1440-1500	Edward Rhodes	Single Grain pIR-IRSL dating of K feldspar from high energy deposits
1500-1520	Adrian Finch	Thermoluminescence of sodalite - an analogue for feldspar and quartz?
1520-1540	Mayank Jain , Amit Kumar Prasad, Nigel R.J. Poolton, Torben Lapp, Myung Ho Kook	Cool quartz and feldspars - what can we learn?
1540-1600	Tea	Room 412
1600-1800	Poster Session 2	Room 412

1900-2000	Civic reception in City Chambers George Square	Courtesy of the Lord Provost of Glasgow and Glasgow City Council
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2015- for 2030	Conference Dinner and Ceilidh in National Piping Centre
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Friday 10th July

0830-1000	Session 7 Glacial systems	Chair Dr. Georgina King
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0830-0850	Eike Rades , Christopher Lüthgens, Markus Fiebig	Exploring the possibilities of quartz and feldspar luminescence dating for glaciofluvial sediments from the northern alpine foreland
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0850-0910	Anders Kristensen , Jan-Pieter Buylaert, Andrew Murray and Nikolaj Krog-Larsen	OSL dating of glaciofluvial and marine deposits on Djursland, a key site for late Pleistocene deposits in Denmark
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0910-0930	Alicia Medialdea and Mark D. Bateman.	How do initial assumptions affect minimum age approaches?
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0930-0950	Rachel Smedley and Geoff A.T. Duller	Quantifying the causes of scatter in single-grain equivalent dose distributions for quartz
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0950-1020	Coffee	Room 412
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1020-1130	Session 8 System developments	Chair Dr. Clemens Woda
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1030-1050	Kay Dornich , Daniel Richter, Andreas Richter	Recent developments from Freiberg Instruments
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1050-1110	Daniel Richter , Dirk Mittelstraß, Sebastian Kreutzer, Markus Fuchs, Kay Dornich	An x-ray irradiator for dosimetric application
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1110-1130	Torben Lapp , Myung Ho Kook, Amit Kumar Prasad, Mayank Jain	Single photon EMCCD based spectrograph system for time resolved measurements on the Riso TL-OSL reader
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1130-1215	Report and discussion of gamma workshop
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1215-1230	Close of meeting
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1230-1330	Lunch	Room 412
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1330-1900	Hill walk and distillery tour	Coach departs Main Gate at 1330
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Poster Session 1, Wednesday 8th July

Posters on display from the morning on 8th July until lunchtime on 9th July.

Presenting authors may introduce their poster with one powerpoint slide at the start of the poster session at 1600 on 8th July in room 412.

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| 1 | Sumia Abdualhadi , Barbara Mauz, Paul Nolan | Quantifying the Uranium Series Disequilibrium using gamma spectrometry |
| 2 | V. Anechitei-Deacu , A. Timar-Gabor, L. del Valle, J.J. Fornós, R. Begy, C. Cosma, L. Gómez-Pujol, A.G. Wintle | Assessing the maximum limit of SAR-OSL dating using quartz of different grain sizes extracted from aeolianites |
| 3 | K. Beerten, Dimitri Vandenberghe , K. Deforce | Optical dating of palaeochannel deposits in the Kleine Nete valley, NE Belgium: first results |
| 4 | Clive Brigden , Neil Hyatt, Edward J. Rhodes | Luminescence behaviour of doped borosilicate glass: preliminary findings |
| 5 | Jan-Pieter Buylaert , Christine Thiel, Thomas Stevens, Shuangwen Yi, Andrew Murray, Manfred Frechen, Huayu Lu | Gaps in the loess record at Jingbian (northern China) identified using luminescence |
| 6 | Louise Dodds , Lorna Carmichael, David C.W. Sanderson, Tim C. Kinnaird, Katie Hamilton | Investigating thermoluminescence and photostimulated luminescence as tools in food authentication |
| 7 | Geoff Duller | Ten things you never knew that Analyst could do |
| 8 | Kari Eskola , Markku Oinonen | Dating coarse-grained ceramics by optically stimulated luminescence (OSL) |
| 9 | Mary Evans , Sandra Mhlongo, Zubair Jinnah | Palaeo-environmental reconstruction of the Diepdrift colluvial deposit, Limpopo Province, South Africa |
| 10 | Marine Frouin , Sébastien Huot, Sebastian Kreutzer, Christelle Lahaye, Michel Lamothe, Norbert Mercier | Towards an optimised IR-RF dating protocol for K-feldspars |
| 11 | Verónica Guilarte , Davinia Moreno, Mathieu Duval | Evaluating the potential of an He cryogenic system for ESR dating of quartz grains |
| 12 | Katie Hamilton , Lorna Carmichael, David C.W. Sanderson, Emma Meehan, Sean Paling, Alan Cresswell, Tim C. Kinnaird, Louise Dodds | Investigating the use of low level gamma spectrometry in studies of food authenticity |
| 13 | Vicki Hansen , Andrew Murray, Jan-Pieter Buylaert, Kristina Thomsen, Mayank Jain, Reza Sohbat | Precision and accuracy in beta source calibration |

- 14 **S.G. Kang**, H.M. Roberts, G.A.T. Duller, X.L. Wang, P. Cheng, X.Z. Li Medieval Climate Anomaly and Bond 2 recorded in a late Holocene Chinese loess profile, based on closely-spaced quartz OSL dating
- 15 **Natalia Kijek**, A. Chruścińska Basic research on the OSL process in the aspect of natural and laboratory OSL growth curve for young samples
- 16 **Romesh Palamakumbura**, Alastair Robertson, Tim Kinnaird, David Sanderson Post-IR IRSL dating of carbonate aeolianite deposits to constrain tectonic and sea-level controls on terrace formation processes in northern Cyprus.
- 17 **Eun-Young Yeo**, Andrew Murray, Jan-Pieter Buylaert, Kristina Thomsen & Vicki Hansen Residual quartz and feldspar OSL signals in recently deposited sediments

Poster Session 2 Thursday 9th July

Posters on display from lunchtime on 9th July until close of meeting on 10th July.

Presenting authors may introduce their poster with one powerpoint slide at the start of the poster session at 1600 on 9th July in room 412.

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| 18 | Geraint Jenkins , G.A.T. Duller, H.M. Roberts, R.C. Chiverrell | Investigating the potential for luminescence dating of pebbles and cobbles in ice marginal sediments, Isle of Man, UK |
| 19 | Michael Kenzler , S. Tsukamoto, M. Frechen, H. Hueneke, H. Rother | Luminescence dating of an Saalian to Weichselian sequence from the northern German Baltic Sea coast |
| 20 | Reza Sohbaty , Andrew Murray, Josh Borella, Mark Quigley | OSL dating of prehistoric rockfalls Christchurch New Zealand |
| 21 | Nicole Klasen , Janna Just, Finn Viehberg, Bernd Wagner, Asfawossen Asrat, Frank Schäbitz | Luminescence dating of sediment core samples from Chew Bahir (Southern Ethiopia) |
| 22 | Sebastian Kreutzer , Marine Frouin, Christelle Lahaye, Michel Lamothe, Norbert Mercier | Thoughts on data processing and error estimation using the RF ₇₀ protocol |
| 23 | Brice Lebrun , Norbert Mercier, Chantal Tribolo, Guillaume Guérin, Yannick Lefrais | Investigation toward equivalent dose over-dispersion using high resolution autoradiography image processing of resin-consolidated sediments |
| 24 | Benjamin Lehmann , Pierre G. Valla, Georgina King, Frederic Herman | Constraining post-LGM glacier fluctuations using OSL-surface exposure dating in the Western Alps |
| 25 | Sally Lowick | A test-set of Swiss samples for assessing the reliability of both quartz and feldspar ages up to ~ 110 ka |
| 26 | Andrew Mooney , Emma Marshall, David C.W. Sanderson, Tim C. Kinnaird | Re-appraising the heat flow of Scottish granites using TL onset temperature methods |
| 27 | Davinia Moreno , Christophe Falguères, Pierre Voinchet, Jean-Jacques Bahain | Assessing the applicability of ESR dating of quartz grains from karstic infilling sediments |
| 28 | Esperanza Muñoz-Salinas, Miguel Castillo , David Sanderson, Tim Kinnaird, Paul Bishop | Interpreting luminescence signals to assess grain resetting and sediment transport from a PPSL unit in Jalisco Block (Mexico) and other fluvial settings |
| 29 | Lisa Snape-Kennedy , Ian K. Bailiff, Nathan R. Jankowski | The Upper Caucasus: Prospects for dating archaeological contexts |
| 30 | Mareike Trauerstein , Sally E. Lowick, Heinz Veit | Challenges in using dim quartz from glacial and periglacial environments for luminescence dating |
| 31 | Joséphine Tuquoi , Guérin | Red TL from heated flints: towards a |

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| | Guillaume | SAR sequence using various signals (TL, ITL) |
| 32 | Dimitri Vandenberghe , J. Vandenberghe, K. Beerten, J. De Grave | Interpreting the Brabant Member |
| 33 | David Sanderson , Simon Murphy, Tim Kinnaird, Andrew Tait | Developments and applications of the SUERC portable OSL reader |
| 34 | David Sanderson , Tim Kinnaird, Franck Leandri, Céline Leandri, Michèle Casanova | OSL dating of megalithic monuments at Capu di Lugu, Belvédère-Campomoro, SW Corsica |
| 35 | Clemens Woda , Céline Bassinet, Sara Della Monaca, E. Bortolin, P. Fattibene, F. Trompier, Jon Eakins, Chris Burbidge, Ulrike Kulka | Luminescence dosimetry using personal items as a viable tool for emergency dosimetry – activities within the European networks RENEB and EURADOS |
| 36 | Jamie Wood , P.S. Toms, M.C. Grenfell, F.M. Chambers | Optical dating of blocked-valley lake deposits from eastern South Africa |

