



LED2021 Programme

13th – 17th September 2021

International Scientific Organizing Committee

Lee Arnold, Andrzej Bluszcz, Regina DeWitt, Geoff Duller (Chair), Christophe Falguères, Mayank Jain, Gloria I. López, P. Morthekai, Naomi Porat, Sumiko Tsukamoto, Liping Zhou

Conference Website: led2021.org

CONFERENCE PROGRAMME

Sunday 12th September: 13:00 UTC - Icebreaker event in GatherTown and Zoom (details to follow)

Time (UTC):		13:00 to 13:45	14:15 to 15:00	15:30 to 16:15		
Day		Block A 45 minutes	30 mins	Block B 45 minutes	30 mins	Block C 45 minutes
Mon. 13 th Sept	12:50: Opening of conference and welcome	Session 1: Luminescence and ESR analysis of quartz and other materials	Coffee break	Session 2: Insights into feldspar luminescence processes	Coffee break	Poster Session For sessions 1 to 6 (GatherTown)
Tues. 14 th Sept		Session 3: Advances in measurement protocols	Coffee break	Session 4: Advances in instrumentation and dose rate determination	Coffee break	Session 5: Luminescence dating of rocks and glacial sediments
Wed. 15 th Sept		Session 6: Luminescence and ESR dating of marine, fluvial and lacustrine sediments	Coffee break	Session 7: Advances and applications in archaeology and palaeontology	Coffee break	Conference Business Meeting and Presentation of Working Group for establishing an LED society
Thu. 16 th Sept		Session 8: Evaluating luminescence and ESR methods in archaeological and geological contexts	Coffee break	Session 9: Exploring age models and extending the age range	Coffee break	Poster Session For sessions 7 to 12 (GatherTown)
Fri. 17 th Sept		Session 10: Provenance Studies and patterns of sensitivity change	Coffee break	Session 11: Novel applications of luminescence and ESR: Part 1	Coffee break	Session 12: Novel applications of luminescence and ESR: Part 2
						Closing of the conference

LIST OF SESSIONS

Session	Title	Discussion Time
1	Luminescence and ESR analysis of quartz and other materials	13 th Sept 13:00 UTC
2	Insights into feldspar luminescence processes	13 th Sept 14:15 UTC
3	Advances in measurement protocols	14 th Sept 13:00 UTC
4	Advances in instrumentation and dose rate determination	14 th Sept 14:15 UTC
5	Luminescence dating of rocks and glacial sediments	14 th Sept 15:30 UTC
6	Luminescence and ESR dating of marine, fluvial and lacustrine sediments	15 th Sept 13:00 UTC
7	Advances and applications in archaeology and palaeontology	15 th Sept 14:15 UTC
8	Evaluating luminescence and ESR methods in archaeological and geological contexts	16 th Sept 13:00 UTC
9	Exploring age models and extending the age range	16 th Sept 14:15 UTC
10	Provenance Studies and patterns of sensitivity change	17 th Sept 13:00 UTC
11	Novel applications of luminescence and ESR: Part 1	17 th Sept 14:15 UTC
12	Novel applications of luminescence and ESR: Part 2	17 th Sept 15:30 UTC

Full details of all oral and poster presentations in each session are given in the following pages. You can access the online programme for any session by clicking on the name of the session above. In the list of presentations in the following pages you can see the talk or poster by clicking on the word "View" on the right hand side of the page (NB: you must be logged into the LED2021 website to access the programme, talks and posters).

Session 1: Luminescence and ESR analysis of quartz and other materials

Chair : TBC

Co-chair: TBC

Oral Presentations

Discussion Time: Monday 13th Sept 13:00 UTC

	Presenter	Title	Link
1	Naoya Obata	Thermal stability of the ESR signals in quartz of various origin	View
2	Grzegorz Adamiec	EMCCD in quartz single grain research	View
3	Trine Freiesleben	Non-first-order kinetic models in rock surface dating	View
4	Kathleen Rodrigues	Exploring the use of luminescence techniques for dating volcanic glasses	View
5	Hao Ji	A preliminary study on the ESR signals characteristics of recrystallized carbonate in southwest China	View
6	Morthekai P	Luminescence dating of diatoms: an attempt	View

Poster Presentations

Poster Session: Monday 13th Sept 15:30 UTC

	Presenter	Title	Link
1	Rafael Cogollo Pitalua	Thermoluminescence of aquamarine	View
2	Efstathios Tsoutsoumanos	Dependence of the LM-OSL peak shape on trap filling and trap emptying - Comparison with TL	View
3	Pavlos Konstantinidis	Recombination pathways in a BeO yielding two main dosimetric TL peaks	View
4	Damilola Folley	Phototransferred thermoluminescence of topaz	View
5	Isogai Shusuke	Thermal stability of radiation-induced organic radicals in chibaite	View
6	Jessica Mosqueira	Thermoluminescence and defect studies of SrAl ₂ O ₄ phosphor synthesized by solid state reaction method	View
7	Bokang Khabo	Influence of argon ion implantation on the thermoluminescence properties of aluminium oxide	View
8	Aaron Joel Lontsi Sob	Thermally Assisted Optically Stimulated Luminescence of α -Al ₂ O ₃ :C,Mg	View
9	Omar D. Gutierrez	Kinetic analysis of the main peak of the thermoluminescent glow curve of α -Al ₂ O ₃	View
10	Julie Durcan	Investigating quartz OSL signal characteristics using EMCCD imaging	View
11	Alicja Chruscinska	A systematic multi-technique comparison of two reference quartz samples	View
12	Zhengye Xiong	Thermoluminescence of natural quartz grains beside Huguangyan Maar Lake	View
13	Rogério Baria	The functionalization of the quartz surface: A new proposal to stabilize the E'1 center and ESR dating of marine sediment	View
14	Chunru Liu	Radiation sensitivity characteristics of quartz ESR signals under high temperature baking by volcanic lava flow: Example of Datong China	View
15	Pierre Voinchet	Influence of feldspar aluminum centre in feldspar/quartz mixture and its consequences on the optical bleaching ESR dating of quaternary sediments	View

Session 2: Insights into feldspar luminescence processes

Chair : TBC

Co-chair: TBC

Oral Presentations

Discussion Time: Monday 13th Sept 14:15 UTC

	Presenter	Title	Link
1	Scott Fitzgerald	Using Infra-Red Stimulated Luminescence and Phototransferred Thermoluminescence to Investigate Electron Trapping and Charge Transport in Feldspars	View
2	Vasilis Pagonis	Standardizing the computerized analysis and modeling of luminescence phenomena: new open-access codes in R and Python	View
3	Monika Devi	TL and OSL trap correlation studies to understand the luminescence mechanism in feldspar	View
4	Svenja Riedesel	Time-resolved analysis of blue and yellow-green IRSL emissions - Insights into charge recombination and radiative relaxation in chemically and structurally different alkali feldspars	View
5	Mayank Jain	Exploring the potential of green light excitation for measurement of infrared photoluminescence	View
6	Melanie Bartz	Does chemical weathering change luminescence of feldspar?	View

Poster Presentations

Poster Session: Monday 13th Sept 15:30 UTC

	Presenter	Title	Link
1	Georgios S. Polymeris	Athermal fading studies in thermoluminescence signal of 10 different K-feldspar samples; fading rate versus TL glow curve temperature analysis and correlation to structural state characteristics	View
2	Markus Fuchs	Further investigations on infrared-radiofluorescence (IR-RF) emissions	View
3	J.M. Kalita	Thermally assisted-optically stimulated luminescence from deep electron traps in microcline	View
4	Marine Frouin	Further investigations into IR-RF and IR-PL	View
5	Geoff Duller	Imaging single grains of feldspar: luminescence variability and implications for dating	View

Session 3: Advances in measurement protocols

Chair : TBC

Co-chair: TBC

Oral Presentations

Discussion Time: Tuesday 14th Sept 13:00 UTC

	Presenter	Title	Link
1	Chauhan Naveen	A Revised Protocol for Violet Stimulated Luminescence (VSL) Dating to Extend the Dating Range using Quartz	View
2	Neda Rahimzadeh	A comparative study of sand- and silt-sized quartz fractions for MAR-VSL dating using loess-palaeosol deposits in southern Germany	View
3	Michel Lamothe	Post-isothermal method for circumventing anomalous fading: testing the protocol for Holocene to Mid-Pleistocene well-dated sediments.	View
4	Helen M. Roberts	Determination of equivalent dose from mixed mineralogy samples without heating: implications for portable field instruments	View
5	Gwynlyn Reinette Buchanan	Testing the limits of infrared radiofluorescence dating: investigating the bleaching duration and temperature parameters on the Luochuan Loess sequence, Chinese Loess	View
6	A. K. Singhvi	How robust are SAR single grain paleodoses: the role of sensitivity changes ?	View

Poster Presentations

Poster Session: Monday 13th Sept 15:30 UTC

	Presenter	Title	Link
1	Antoine Zink	Can we automate TL MAAD analysis?	View
2	Maryam Heydari	Bayesian data analysis for spatially resolved luminescence measurements	View
3	Thomas Kolb	Testing the potential of a standardized growth curve approach for improving the reliability and applicability of fading correction	View
4	Tobias Lauer	Yellow stimulation of feldspar at low temperatures – testing a new dating approach	View
5	Elizabeth Chamberlain	A case against subtracting a laboratory residual dose for feldspar single-grain luminescence dating	View
6	Junjie Zhang	A simplified multiple-aliquot protocol to extend the dating limit of K-feldspar pIRIR signal to 600 ka	View
7	Andrew Ivester	An approach to test for IRSL full bleaching on deposition: The 3ET method	View
8	Nina Ataee	Isolating a VSL signal suitable for dating: investigating different thermal pretreatments and signal integration limits	View
9	Pontien Niyonzima	Testing the potential of quartz violet stimulated luminescence for dating of Brazilian fluvial sediments	View
10	Alicia Medialdea	VSL as a tool for extending the age range: suitability of the SAR protocol up to 400 Gy	View
11	Prachita Arora	Testing the applicability of VSL, TT-OSL and TT-VSL on modern sediments	View
12	Alan Cresswell	Quartz Age Extension Applied to SE Asian Cover Sands	View
13	Piotr Palczewski	SAR TM-OSL protocol - tests of the suitability of the technique for dating sediments	View
14	Shin Toyoda	ESR dating of sea-floor hydrothermal barite: use of the regenerative dose protocol	View
15	Verónica Guilarte	ESR dating of Quartz using different measurement temperatures: performance evaluation of different cryogenic systems based on He and N ₂ and their influence on dose	View
16	Amber Hood	The minimum extraction technique: an update on methodological developments	View
17	Maria Jesus Alonso	In which extent exothermic reactions during sample preparation may impact luminescence and ESR signals measured in quartz?	View
18	Gloria I. López	Heat and Cold Stress on OSL samples: A word of caution regarding field and lab extreme conditions	View
19	Atul Kumar Singh	A new and effective method for quartz-feldspar separation for OSL dating	View
20	Sam Woor	Improving the effectiveness of heavy liquid density separation in isolating K-feldspar grains using alluvial sediments from the Hajar Mountains, Oman	View
21	Konstantina Prevezanou	Implementation of expressions based on Lambert-W function in deconvolution and dose response phenomena using Python	View

Session 4: Advances in instrumentation and dose rate determination

Chair : TBC

Co-chair: TBC

Oral Presentations

Discussion Time: Tuesday 14th Sept 14:15 UTC

	Presenter	Title	Link
1	Elaine Sellwood	Equivalent dose determination using spatially resolved IRPL and IRSL	View
2	Matt Gunn	Optimisation of signal discrimination for measurement of the dose dependent IRPL signal in feldspar	View
3	Emmanuel Osunkwor	Microscopic variations in sediment dose rate: Comparison of measured and modelled dose distributions	View
4	Daniel Richter	Comparison of beta dose rates derived from Risø and LexCal calibration quartzes	View
5	Reza Sohbat	Towards spatially resolved dose rate determination: imaging alpha particles	View
6	Loic Martin	Advancing dosimetry for Dating Environmental Materials (ADDEM)	View

Poster Presentations

Poster Session: Monday 13th Sept 15:30 UTC

	Presenter	Title	Link
1	Myungho Kook	Field screening instruments for rock surface dating	View
2	Martin Autzen	Re-evaluating the gamma dose to Risø Calibration Quartz using both ⁶⁰ Co and ¹³⁷ Cs irradiations	View
3	Christopher Garcia	X-ray and laser calibration of the spatially resolved luminescence instrument LuCIDD	View
4	Simon Armitage	A pragmatic approach to using X-ray irradiation in optically stimulated luminescence measurements on quartz using the single aliquot regenerative dose (SAR) method	View
5	Kay Dornich	Recent developments for lexyg luminescence readers from Freiberg Instruments	View
6	Sebastien Huot	Measurements of uranium, thorium, and potassium as an inter-laboratory comparison: A New World experience	View
7	Agnieszka Szymak	Dose rate variability in Żabinko dune profile	View
8	Priyanka Singh	An attempt to date contaminating feldspar within quartz	View
9	Brice Lebrun	Improving reproducibility in our disciplines: application in gamma spectrometry	View
10	Vitor Aguiar	Gamma-ray spectra analysis for inhomogeneous and/or out-of-equilibrium sediments	View
11	Dorian Lancelot	Are all natural gamma and beta dose rates equivalent for OSL dating?	View
12	Konrad Tudyka	Preparation of material for uranium decay chain content comparison	View
13	Kumar Raju	OxGamma: a MATLAB based application for gamma spectrum analysis	View

Session 5: Luminescence dating of rocks and glacial sediments

Chair : TBC

Co-chair: TBC

Oral Presentations

Discussion Time: Tuesday 14th Sept 15:30 UTC

Presenter	Title	Link
1 Xianjiao Ou	Rapid assessment of beta dose variation inside cobbles, and implications for rock surface luminescence dating	View
2 Regina DeWitt	OSL dating of cobble surfaces from raised Antarctic beaches: Challenges and results	View
3 Furong Cui	Luminescence dating of buried cobbles from river terraces: a pilot study on using quartz source signal via pulsed stimulation	View
4 Geraint Jenkins	Luminescence dating of cobbles to determine the retreat of the last British-Irish ice sheet	View
5 Christina Neudorf	Investigating the luminescence dating potential of beach pebbles and cobbles associated with the last (~16 ka) pluvial lake highstand in the Great Basin, USA	View
6 Jakob Wallinga	What do feldspar single-grain dose distributions tell us?	View

Poster Presentations

Poster Session: Monday 13th Sept 15:30 UTC

Presenter	Title	Link
1 Qi Liu	“Up and down” jiggling of alluvial channels: insight from optical dating of buried rock surfaces of cobbles from terrace sequence	View
2 Zhaoning Li	Characteristics of depth profiles of luminescence intensity in modern riverbed boulders and its implications for bed-load transport process: a case study of Shiyang River, China	View
3 Henrik Olesen	Investigating the dependence on excitation wavelength of luminescence bleaching and sensitivity change in rocks	View
4 Stephan Fuhrmann	Evaluating the parameter values of the bleaching-with-depth-model for rock surface exposure dating – an empirical approach	View
5 Daria Semikolennykh	Dating a catastrophic flood in the Altai mountains using Rock Surface Luminescence	View
6 Tristan Bench	Trialling the Use of Controlled Exposure Experiments for Optical Surface Exposure Dating on Quartzite Quarry Surfaces in Washington State	View
7 Felix Martin Hofmann	Challenges in luminescence dating of the last glaciation maximum in the southern Black Forest, Germany	View
8 Daniela Mueller	Luminescence chronology of Middle Pleistocene sediments from the Lower Aare Valley region, northern Switzerland	View
9 Xiaoxia Wen	Deciphering rock cooling histories in the European Alps using OSL and ESR thermochronometry	View
10 Nikolas Krauß	Testing a novel Weichselian ice advance model for the SW Baltic Sea region by new quartz OSL ages from the Jasmund peninsula (Rügen Island)	View
11 Pranshu Bhardwaj	Optical Chronology and Climatic Implication using Equilibrium-Line Altitude of Late Quaternary Glaciations in Nubra Valley, Karakoram Himalaya, India	View
12 Christopher Lüthgens	Using single grains of feldspar for the dating of glaciofluvial sediments – key results from a case study in the Drau glacier area, Austria, for unravelling Alpine chronologies	View

Session 6: Luminescence and ESR dating of marine, fluvial and lacustrine sediments

Chair : TBC

Co-chair: TBC

Oral Presentations

Discussion Time: Wednesday 15th Sept 13:00 UTC

Presenter	Title	Link
1 Xiaomei Nian	Holocene evolution of buried tidal sand body in North Jiangsu Plain of China based on luminescence dating	View
2 Charlie Rex	Controls on luminescence signals in lake sediment cores: a study from Lake Suigetsu, Japan	View
3 Ru xin Liu	Luminescence dating of Late Pleistocene deposits in Hangzhou Bay, China	View
4 Vinícius Ribau Mendes	Luminescence applications in marine sediment cores: challenges and perspectives	View
5 Galina Faershtein	Quartz OSL dating of deep marine sediments from the continental slope offshore Israel	View

Poster Presentations

Poster Session: Monday 13th Sept 15:30 UTC

Presenter	Title	Link
1 Hongyu Yang	Optical dating of the sinters from lake in the Badain Jaran Desert, Northern China and its implications	View
2 Jürgen Mey	Illuminating the speed of sand – quantifying sediment transport using optically stimulated luminescence	View
3 Anca Avram	Investigation on the luminescence properties of quartz and feldspars extracted from loess in the Canterbury Plains, New Zealand South Island	View
4 Yali Zhou	OSL Dating for the upper reaches terraces of Han River	View
5 Yongsheng Chen	Coarse-and fine-grained quartz OSL dating of Late Pleistocene coastal sediments in northern Bohai Bay, China: A comparison	View
6 Songbaoerbatu Qiaola	Optically-stimulated luminescence dating of Holocene sediment cores from a wave-dominated delta in central Vietnam	View
7 Yuniarti Yuskar	Holocene fluvial dynamics of the Kampar River, Sumatra, Indonesia	View
8 Carlos Arce-Chamorro	Upper Pleistocene chronology for fluvial deposits in the coast of the Ria of Coruña (Galicia, NW Spain) by quartz OSL.	View
9 Lei Gao	Luminescence dating of Late Quaternary sediment from the North Yellow Sea in China	View
10 Gang Hu	Chronology of megaflood sediments in the Jinsha River: implication for luminescence dating of hyperconcentrated flow deposits	View
11 Zhang Shuai	Late Quaternary lake high-stands of Orog Nuur in the southern Mongolian Plateau based on optically stimulated luminescence dating	View
12 Grace Skirrow	Novel applications of luminescence dating to examine the drivers of fluvial change in the Rio Chubut (Argentina, ~42°S).	View
13 Natalia Taratunina	Late Quaternary evolution of lower reaches of Volga River (Raygorod section) based on luminescence dating	View
14 Yuji Ishii	IRSL dating of fluvial terrace deposits along the Ani River, northeastern Japan	View
15 Piotr Moska	OSL chronostratigraphy of the Late Pleistocene fluvio-aeolian succession in central and south-eastern Poland	View
16 Long Huang	Late Quaternary lake level changes of Nam Co and Dawa Co as revealed by OSL dating of paleo-shorelines	View
17 Li Cheng	The Stratigraphic Chronology and its geological significance of the Daju Basin of the Jinsha River	View
18 Xiuying Liu	OSL dating of fluvial terraces along the Beida River: Constraints on tectonic and climatic drivers for fluvial downcutting across the NE Tibetan Plateau margin, China	View
19 Xuemei Wang	Testing the applicability of standardised growth curves (SGCs) for OSL signals of quartz grains from Yangtze Delta, China	View

20 Xue Rui	Luminescence dating of the Huli River terraces in the Nihewan Basin, north China	View
21 Sandeep Panda	Extreme-Paleo Flood Events and Erosional Hotspot of Tsangpo-Siang-Brahmaputra River System	View
22 Sumit Sagwal	Lake-level fluctuations and paleo-salinity of Pangong Tso, Ladakh Himalaya since 3 ka	View
23 Yin Gongming	OSL dating of the lacustrine deposited in broad-valley reaches of the Jinsha River: implications for dammed lake formation	View
24 Xiao Lin Xu	Chronology and formation of the Pearl River delta	View
25 Belligraham Narzary	Luminescence chronology of the Sankosh River terraces in the Assam- Bhutan foothills of the Himalayas: Implications to climate and tectonics	View
26 Zhiru Long	Chronostratigraphic reconsideration of Late Quaternary sedimentation in the Western Bohai Sea by OSL dating	View
27 Yandong Hou	Luminescence dating of shorelines sediments indicating lake-level rise in Selin Co on the central Tibetan plateau during the last deglaciation	View
28 Hao Long	Revisiting the late Quaternary mega-lake in Tengger Desert from western China using K-feldspar luminescence dating	View
29 Min Cao	lake level variations since last deglaciation of Zabuye Salt Lake ,Tibetan Plateau	View
30 Hua Tu	Holocene lake-level history of Taro Co in Tibetan Plateau based on OSL dating of shorelines	View

Session 7: Advances and applications in archaeology and palaeontology

Chair : TBC

Co-chair: TBC

Oral Presentations

Discussion Time: Wednesday 15th Sept 14:15 UTC

Presenter	Title	Link
1 Natalia Pawlak	Application of optically stimulated luminescence for dating ancient bricks from the gothic church of St. James in Toruń, Poland	View
2 Ana Luísa Rodrigues	Luminescence dating of pre-historic ditched enclosures from calcite-rich contexts: a new approach to the dose rate estimative	View
3 Elena Tomasi	OSL single-grain and post-IR IRSL pottery dating for an archaeological key-site in the Western Mediterranean Sea – The Case of Iron Age Monte Iato, Sicily	View
4 Carlos Gonzales-Lorenzo	Dating of ancient ceramics from Churajon archaeological site, Arequipa, Peru by TL and EPR techniques	View
5 Michael Hein	Neanderthals of the North: A pIRIR290-chronostratigraphy of the Middle-Palaeolithic sites Lichtenberg I and II, Lower Saxony (GER)	View
6 Mailys Richard	Investigating the effect of diagenesis on ESR dating of Middle Stone Age tooth samples from the open-air site of Lovedale, Free State, South Africa	View

Poster Presentations

Poster Session: Thursday 16th Sept 15:30 UTC

Presenter	Title	Link
1 Isabel Hernando-Alonso	ESR chronology of the fluvial sequence of Cueva del Silo (Sierra de Atapuerca, Spain)	View
2 Frederik Baumgarten	Establishing an OSL chronology for Kostenki 17	View
3 Chun-Xin Wang	Quartz OSL/TL-SAR dating and the OSL component characteristic of pottery, burnt clay, and sediment from Beicun archaeological site, China	View
4 James Feathers	Luminescence Dating of Rock Structures in Northeastern United States	View
5 Daichi Haranosono	ESR dating of heated rock fragments excavated from Tsujita site, Kyushu, Japan	View
6 Jinwei Li	The thermoluminescence dating of blue and white porcelain unearthed from Jianshui kiln in Yunnan, China	View
7 Sahar al Khasawneh	Interpretation of Neolithic rubble layers from Ba'ja and Basta sites using Luminescence Dating	View
8 Nasrin Karimi Moayed	A combined OSL and 14C dating study of charcoal production in the sandy environment of Zoersel forest (N Belgium)	View
9 Christophe Falgueres	New ESR/U-series dates of the lowest AYCC levels of Qesem cave	View
10 Mariana Sontag-González	Establishing a pIRIR procedure for the determination of composite mineral grains from volcanic terranes: A case study of sediments from Liang Bua, Indonesia	View
11 Aayush Srivastava	Agricultural terraced landscapes in the Mediterranean: novel discourses around the issue of chronological gaps	View
12 Possum Pincé	Systematic high-sampling resolution OSL dating of a well-preserved river dune in the Lys valley (Sint-Martens-Latem, NW Belgium)	View
13 Christoph Schmidt	Rock surface burial dating of the Nazca Lines, Peru: First results	View
14 Petra Urbanova	Luminescence dating of historical mortars: the sensitivity question	View
15 Mathieu Duval	New numerical age constraints for unit TD1 from Atapuerca Gran Dolina, Spain, based on a combination of ESR and luminescence dating methods	View
16 Davinia Moreno	ESR/U-series chronology of Neandertalian occupation layers at Galería de las Estatuas (Sierra de Atapuerca, Spain)	View
17 Jean-Jacques Bahain	ESR/U-series dating Eemian human occupations of Northern France	View

18	Dimitri Vandenberghe	Optical dating of prehistoric and historic anthropogenic features at Ninove Doorn Noord (East Flanders, Belgium)	View
19	Huarui Lei	Chronology of the Xibaimaying site in the Nihewan Basin, North China, inferred from optical dating on fine quartz	View
20	Sutthikan Khamsiri	Luminescence Dating of Archaeometallurgical Slag from Buriram Province, Northeastern Thailand: The Possibility and Reliability of Dating	View
21	Anne R. Skinner	ESR Dating Ungulate Teeth at Mirosava Cave, Eastern Serbia: Reconstructing Paleoenvironments During Early MIS 3	View
22	Prapawadee Srisunthon	Towards a luminescence chronology of the Lanna ceramic group at Ban Bo Suak archaeological site, northern Thailand, using ceramics, kiln material and burying	View
23	Jin Cheul Kim	Re-evaluation of the chronology of the Palaeolithic site at the Eastern Desert, Sudan, using single grain OSL signals from quartz and K-feldspar	View
24	Jiajing Wang	Luminescence dating of the Shangshangang paleolithic site, Zhejiang Province, China	View
25	Lee Arnold	Examining sediment infill dynamics at Naracoorte Cave megafauna sites using multiple luminescence dating signals	View
26	Jorge Sanjurjo-Sánchez	Luminescence dating by k-feldspars of fluvial sediments of the urban complex of Maranga, Lima (Peru)	View
27	Priya	ESR and OSL dating of fossil deposits from the Naracoorte Cave Complex, South Australia	View
28	Finley Jones	Detection of heating in archaeological sediments from Blombos Cave, South Africa.	View
29	Martina Demuro	New extended-range luminescence chronologies for the Middle Pleistocene units at the Sima del Elefante archaeological site (Sierra de Atapuerca, Spain)	View
30	Junyi Ge	Optical Luminescence and U-Th dating of the Jinniushan site reveals an early occurrence of the archaic human at ~400 ka in East Asia	View
31	Sumiko Tsukamoto	Luminescence Chronology of Fossiliferous Fluvial Sediments in the Middle Atbara River, Sudan	View
32	Debra Colarossi	A needle in a haystack: using targeted drilling with low-resolution dating to identify archaeological sites for excavation	View
33	Nupur Tiwari	Quaternary sediment mixing and chronological reversal in the main Narmada river channel in Sehore district, Madhya Pradesh, India	View
34	Jungyu Choi	Introducing the EARTHWORK project: feldspar single-grain pIRIR luminescence dating of earthworks in the Netherlands	View
35	Ninon Taffin	The Palaeolithic occupations of the Central Aegean (Stelida, Naxos island, Greece) highlighted by single-grain IRSL dating	View
36	Richard Lewis	Single-grain OSL and extended-range luminescence dating of late to middle Pleistocene faunal assemblages from tropical eastern Australia	View
37	Daria Khashchevskaya	First luminescence chronology of the initial Upper Palaeolithic of Eastern Kazakhstan (Ushbulak site)	View

Session 8: Evaluating luminescence and ESR methods in archaeological and geological contexts

Chair : TBC

Co-chair: TBC

Oral Presentations

Discussion Time: Thursday 16th Sept 13:00 UTC

	Presenter	Title	Link
1	Laurence Forget Brisson	Chronological framework for late Pleistocene and Holocene loess sequences: Extending the LPH-IRSL protocol to Eastern Beringia archaeological sites	View
2	Kira Westaway	Testing the accuracy of pIR-IRSL procedures using independent age estimates	View
3	Pu Yang	Testing of post-IR IRSL dating approaches using coarse-grained K-feldspar from the lower coastal terraces on the Western Iberian Margin (northern Portugal)	View
4	Anna Utkina	Unexpectedly old luminescence ages as an indicator of the origin of the Upper Volga River valley sediments	View
5	Melissa Chapot	Challenges of single grain quartz OSL dating sediment samples from a low dose-rate environment near Victoria Falls in Zambia	View
6	Marcus Richter	Evaluation of the residual dose/age in quartz ESR dating: a study from archaeological sites near Victoria Falls, Zambia	View

Poster Presentations

Poster Session: Thursday 16th Sept 15:30 UTC

	Presenter	Title	Link
1	Johanna Lomax	Palaeoclimatic signals in loess-palaeosol sequences from Armenia accessed by fine grain luminescence dating	View
2	Zoran Peric	High detailed luminescence dating of the Irig loess-palaeosol sequence over the last 180 ka	View
3	Nikolay Volvakh	First high-resolution OSL dating study of the loess-paleosol sequence of Southern Siberia (Lozhok reference section)	View
4	Olga Meshcheriakova	The Upper Pleistocene loess-paleosol sequence of the Cis-Altai plain (Solonovka section): first OSL results	View
5	Liping Zhou	Luminescence dating of Uzbekistan loess: towards a new absolute chronological framework	View
6	Redzhep Kurbanov	Detailed luminescence chronology of Lower Volga loess (Leninsk section)	View
7	Mikhail Svistunov	Identifying age limits of the Altay Late Quaternary megafloods from luminescence dating of loess	View
8	Yan Li	Infrared stimulated luminescence dating of coarse-grained K-feldspar and fine-grained polymineral from Chinese Loess Plateau: A comparison	View
9	Michelle Nelson	Quartz luminescence sensitivity from the critical-zone in the western Piedmont of North Carolina, south-eastern USA	View
10	Shannon Mahan	Valles Caldera, New Mexico, USA: Dating and defining the rate of formation of soils and wildfire activity using luminescence	View
11	Jun Peng	High sampling density OSL dating of aeolian samples from the south margin of the Tengger Desert using the global standardised growth curve (gSGC) method	View
12	Tony Reimann	Insight into the sediment dynamics of a high-impact low-frequency mass movement using pIRIR feldspar luminescence	View
13	Xiao Fu	Single-grain quartz and K-feldspar luminescence dating of late Quaternary pluvial episodes beyond MIS 5 in south-eastern Australian highlands	View
14	Haoran Zong	Late Quaternary paleoenvironmental changes at the southern margin of the Gurbantunggut Desert, northwest China: an optical dating study	View
15	Aline Zinelabedin	Testing the application of infrared stimulated luminescence dating on feldspars from calcium sulphate-rich wedges in the Atacama Desert	View
16	Fei Yang	The first OSL dating of Black Soil in northeast China	View

17	Grzegorz Poręba	Holocene soil erosion on agricultural loess slope by simultaneously using the SAR OSL dating method and fallout radionuclides (^{137}Cs and ^{210}Pb) - a case study	View
18	Yorinao Shitaoka	Quartz OSL dating to find formative ages of Higher terraces burring valleys in the central Lesser Nepal Himalayas	View
19	William McCreary	Challenges in updating the luminescence chronology of the Chaîne des Puys volcanic province, France	View
20	Yiwei Chen	OSL dating of young dunes in upper reach of the Yarlung Tsangpo River, southwest Tibetan Plateau	View
21	Katharina Seeger	Using infrared stimulated luminescence dating for establishing a chronology of morphologic activity in a dry valley in the Andean Precordillera, N Chile	View
22	Toru Tamura	Luminescence characteristics of coastal sediments in East Antarctica	View
23	hui li Yang	Optical dating of paleoearthquakes along the Ms7.4 1985 Wuqia earthquake surface ruptures at the NE margin of the Pamir Syntaxis	View
23	Thays Desiree Mineli	Application of quartz OSL standardised growth curve for dating of Brazilian sediments	View
25	Carlos Mazoca	Feldspar luminescence characteristics from a large amazonian river: ages, SGC and sensitivity	View
26	Qinjing Shen	Late Quaternary OSL chronology and aeolian landform processes in the Hulunbuir dune field, NE China	View
27	Elizaveta Butuzova	Shedding light on the chronology of the largest Late Quaternary transgression of the Caspian Sea	View
28	Aijun Sun	Optical dating reveals the evolution of oases since the last deglacial at the southern margin of Tarim basin, NW China	View
29	Eslem BEN AROUS	ESR dating of Early to Middle Pleistocene coastal dunes, South Africa: a comparison with the luminescence chronology	View
30	Pankaj Sharma	Application of luminescence and radiocarbon dating techniques in studying slack water deposits: A case study from Upper Indus River, Ladakh.	View
31	Jiafu Zhang	Radiocarbon and luminescence dating of the Wulanmulun site in Ordos, China	View
32	Miren del Val	Luminescence and ESR dating of the multi-level karst system of Alkerdi-Zelaieta (Navarre, western Pyrenees) and implications for the provenance study.	View
33	Fei Han	Radiometric dating of Meipu hominin site in Three Gorges and western Hubei area, China by coupled ESR/U-series method and cosmogenic $^{26}\text{Al}/^{10}\text{Be}$ burial dating	View

Session 9: Exploring age models and extending the age range

Chair : TBC

Co-chair: TBC

Oral Presentations

Discussion Time: Thursday 16th Sept 14:15 UTC

Presenter	Title	Link
1 Guillaume Guérin	Age-depth modelling and the effect of including – or not – shared errors across sets of OSL samples	View
2 Sebastian Kreutzer	Chronological reference datasets: reasoning, creation and application	View
3 H��l��ne Tissoux	Dating pre-Quaternary sediments using ESR: some attempts	View
4 Pedro Cunha	Pleistocene sea-level highstands and coastal uplift in westernmost Iberia: characterization and dating of the Peniche marine terrace staircase	View
5 Chuanyi Wei	Plio-early Pleistocene ESR chronology of Ganyanchi Gravel Layer, Haiyuan fault, China: implications for transformation from compressive fault to sinistral strike slip fault	View

Poster Presentations

Poster Session: Thursday 16th Sept 15:30 UTC

Presenter	Title	Link
1 Agnes Novothny	Luminescence dating of loess-paleosol sequences containing the Bag Tephra from the Northern-Carpathian Basin – Can the Bag Tephra be used as a marker horizon?	View
2 Tiffanie Fourcade	Improving the chronology of marine cores: IRSL dating and Bayesian modelling of a core from the Bay of Biscay (NE Atlantic)	View
3 Qingfeng Shao	Applying a Bayesian approach for refining the chronostratigraphy of the Yumidong Cave in the Three Gorges Region, Central China	View
4 Mark Bateman	Getting the right age?	View
5 Madhav Murari	The performance of the existing statistical models on the palaeodose distribution: Observations from laboratory controlled samples	View
6 Alastair Cunningham	Seeking chronological precision for a Holocene loess sequence	View
7 Daniela Constantin	An empirical study on the variability of luminescence ages for coeval loess samples	View
8 Sarah Boyd	Utilising optically stimulated luminescence and radiocarbon dating to investigate depositional scenarios and relative sea level change at Ruddons Point, Fife, Scotland	View
9 Zuzanna Kabaci�nska	Revisiting quartz natural and laboratory electron spin resonance (ESR) dose response curves from Chinese loess	View
10 Margarida Porto Gouveia	Problems encountered in ESR dating on quartz extracted from Pliocene and Early Pleistocene sedimentary formations in Central Portugal	View
11 Yawei Li	Evaluation and application of multiple centers ESR dating method on Plio-Quaternary fluvial sediment: A case study from core ZL in Jiangnan Basin, middle Yangtze River Basin, China	View
12 Hyun Ho Yoon	OSL dating of marine long core sediments on Hupo basin, East Sea of Korea: A comparison of TT-OSL from fine-grained quartz and post-IR IRSL from single grain K-feldspar	View
13 Libin Wang	Research on ESR chronology of lacustrine sediments from Taoyuan paleo-lake, middle reaches of Jinsha River	View
14 Jingran Zhang	The luminescence chronology of the Yellow River terraces in Gonghe Basin and its tectonic and palaeoclimate implications since Mid-Pleistocene	View

Session 10: Provenance Studies and patterns of sensitivity change

Chair : TBC

Co-chair: TBC

Oral Presentations

Discussion Time: Friday 17th Sept 13:00 UTC

	Presenter	Title	Link
1	André Zular	Determining the provenance of sediments using TL and OSL sensitivities, and hyperspectral cathodoluminescence of quartz grains associated with heavy mineral analysis: the case of	View
2	Tammy Rittenour	Quartz Sensitivity across Varied Geologic Provenances and Processes; a near-global survey	View
3	Jintang Qin	Variation of luminescence characteristics of quartz grains from the Cenozoic sedimentary rocks of Western China	View
4	Tomas Capaldi	Downstream Change in Quartz OSL Sensitivity in Modern River Sand Reflects Sediment Source Variability	View
5	Harrison Gray	An application of luminescence sediment tracing using a portable luminescence reader in two-dimensions to evaluate the colluvial wedge sedimentological model	View
6	Ed Rhodes	MET-IRSL used to track pre-depositional sediment transport history	View

Poster Presentations

Poster Session: Thursday 16th Sept 15:30 UTC

	Presenter	Title	Link
1	Nataschia Panno	Testing the use of luminescence as sediment tracer and provenance tool in coastal settings	View
2	Qiuyue Zhao	Provenances of Paleosol deposits in the Central Shandong Mountains region of northern China inferred from Optically Stimulated Luminescence chronologies and grain sizes	View
3	Anna-Maartje de Boer	Development of EMCCD approaches for single-grain feldspar measurements and future applications for sediment tracing	View
4	Helena Alexanderson	Luminescence characteristics of Scandinavian quartz, their connection to bedrock provenance and influence on dating results	View
5	Fernanda Costa Gonçalves Rodrigues	Provenance of Mesozoic-Cenozoic fluvial deposits in Central Amazonia using luminescence sensitivity	View
6	Santunu Kumar Panda	Spatial variations in luminescence sensitivity of quartz extracted from source rocks and fluvial sediments of the Sabarmati River basin, Western India: Implications for	View
7	Rhys Watkins	Luminescence as a sediment provenance tool for the former British-Irish Ice Sheet (BIIS)	View
8	Kaja Fenn	Integrated provenance approach: Combining OSL data with bulk sample geochemistry and zircon U-Pb ages	View
9	Priscila Souza	Repurposing OSL dating data for provenance analysis: a case study with Amazon fluvial deposits	View
10	Tengis Saran	TL and OSL sensitivity of heated quartz as a provenance tool – a preliminary study	View

Session 11: Novel applications of luminescence and ESR: Part 1

Chair : TBC

Co-chair: TBC

Oral Presentations

Discussion Time: Friday 17th Sept 14:15 UTC

Presenter	Title	Link
1 Aditi Krishna Dave	E' and peroxy paramagnetic centres in quartz as a proxy for provenance: Examples from Central Asia	View
2 Alida Timar-Gabor	Luminescence and electron spin resonance (ESR) characterisation of quartz from different lithologies of different ages	View
3 Andre Oliveira Sawakuchi	Appraising the variability of OSL and TL sensitivities of quartz from rocks and sediments using spatially-resolved luminescence measurements	View
4 Nathan Brown	Developing an internally consistent methodology for K-feldspar MAADTL thermochronology	View
5 Magdalena Biernacka	How to effectively isolate the OSL component in the OSL depletion curve measurement?	View
6 Chloé Bouscary	Optimisation of measurement conditions for the derivation of thermal kinetic parameters using isothermal holding experiments	View

Poster Presentations

Poster Session: Thursday 16th Sept 15:30 UTC

Presenter	Title	Link
1 Luke Gliganic	Direct dating of lithic surface artefacts using luminescence	View
2 Warren Thompson	Luminescence dating of an ancient circular stone walled enclosure complex at Sönneböe, northern Scania, Sweden: combined dating of coarse-grained sediment	View

Session 12: Novel applications of luminescence and ESR: Part 2

Chair : TBC

Co-chair: TBC

Oral Presentations

Discussion Time: Friday 17th Sept 15:30 UTC

Presenter	Title	Link
1 Margaret Odum	Developing a new brittle fault slip paleothermometer using quartz luminescence	View
2 Pavao Andričević	Light Propagation in Cracks: Insight from Luminescence	View
3 Rachel Smedley	Erosion rates in a wet, temperate climate derived from rock luminescence techniques	View
4 Yuye Feng	OSL dating application to basal sediments of alpine peat from the northeastern Tibetan Plateau	View
5 Anne Guyez	Feldspar single-grain luminescence illuminates past river dynamics; bedrock input to the Rangitikei River since the Late Glacial	View
6 Joanne Elkadi	Constraining past bedrock surface temperatures in the Western Alps using feldspar thermoluminescence paleothermometry.	View

Poster Presentations

Poster Session: Thursday 16th Sept 15:30 UTC

Presenter	Title	Link
1 Leif S. Anderson	Using a 3-D heat transport model (PeCUBE) to invert OSL- and ESR-derived rock cooling histories into erosion rates in the Hida Range of Japan	View
2 April Phinney	Heated Up: Assessment of Historic and Recent Wildfire Intensities on the Kaibab Plateau, Arizona, USA	View
3 Ian del Rio	Exploring the potential of TL signals from K-feldspar to estimate subsidence rates in the Amazon Basin	View
4 Marília Campos	Assessing changes in northeastern South American hydroclimate during Termination II through OSL and TL sensitivities	View
5 Zheng Cao	Luminescence Sensitivity of Quartz from Rocks under Different in situ Weathering Conditions	View
6 Jiao Li	The Variation of Quartz Optically Stimulated Luminescence Sensitivity in Xifeng Section of Chinese Loess Plateau Since the Last Interglacial	View