

Aberystwyth University

Editorial

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16th International Conference on Luminescence and Electron Spin Resonance Dating (LED2021), online 13 - 17 September, 2021

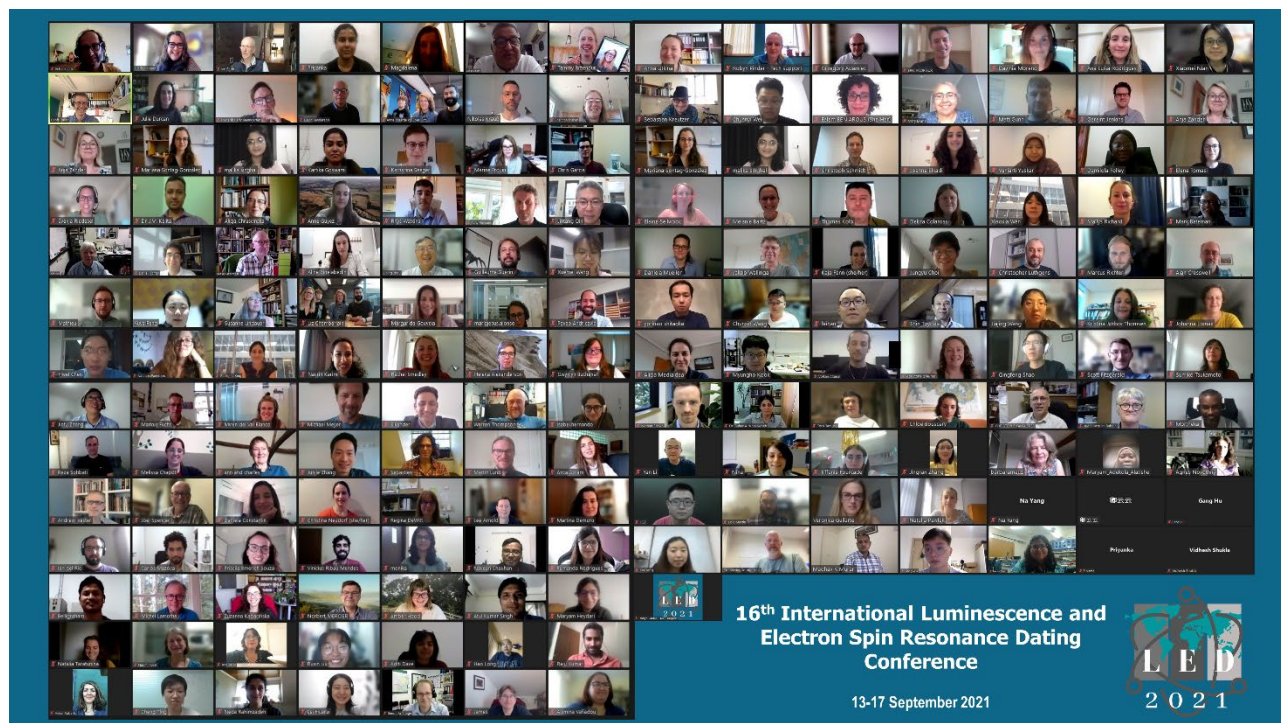


Photo montage of conference delegates by Dr Gloria I. López

Like so much of life in the last few years, the International Luminescence and Electron Spin Resonance Dating conference was severely impacted by Covid-19. It was not possible to hold the 16th International LED conference in 2020 as planned, and instead an online conference was organized. Geoff Duller from Aberystwyth University led an international organizing committee (Lee Arnold, Andrzej Bluszcz, Regina DeWitt, Christophe Falguères, Mayank Jain, Gloria López, Morthikai Paulramasamy, Naomi Porat, Sumiko Tsukamoto and Liping Zhou) in putting together the 16th International Luminescence and Electron Spin Resonance Dating conference (LED2021), which was held between 13th and 17th September 2021.

The academic structure of the conference was similar to previous meetings, with 12 sessions running over 5 days, covering topics including luminescence and electron spin resonance (ESR) processes in different minerals, advances in instrumentation, dose rate determination, application of luminescence and ESR to dating of geological and archaeological materials, approaches for

extending the age range, provenance studies using trapped charge methods, and novel applications of luminescence and ESR.

A total of 257 presentations were made at the conference (71 talks and the remainder posters) and 464 colleagues from 41 countries registered for the conference, making it the largest ever held in terms of the number of participants. LED2021 was a truly international conference with participants from time zones ranging from UTC+10 hours (Australia) to UTC-7 hours (West coast of the USA). A website provided online access to all talks and posters for a week before and 3 weeks after the conference itself. The meeting used a combination of Zoom for interactive questions and discussions, and GatherTown for poster sessions and socializing, allowing participants to walk around a virtual conference venue meeting colleagues and chatting, or to look at posters and discuss them with presenters and others.

The manuscripts arising from the conference were submitted for publication to either *Radiation Measurements* or *Quaternary Geochronology* as Special Issues of these journals. In this Virtual Special Issue of *Radiation Measurements* the papers reflect the wide range of investigation of interest to luminescence and ESR dating researchers. They include topics related to: the luminescence and ESR behaviour of minerals, in particular quartz and feldspar, the assessment of the annual dose, new developments in instrumentation, the study of luminescence mechanisms, the characteristics of various minerals and dosimetry phosphors, mathematical modelling, and aspects of dosimetry. The presentations were of an exceptionally high standard, providing a scientifically stimulating atmosphere at the conference.

Four prizes were awarded to students who presented papers at the conference: the Martin Aitken Prize for the best oral presentation on fundamentals was awarded to both Aditi Krishna Dave and Trine Freiesleben, Mariana Sontag-González received the Vagn Mejdahl Prize for the best poster presentation on applications, Joanne Elkadi received the Ann Wintle Prize for the best oral paper on applications, and Nina Ataei received the Peter Townsend Prize for the most innovative idea in instrumentation and methodology.

The papers published in this Special Issue were refereed by a panel of Reviewers and we are very grateful to the colleagues listed below who contributed to the proceedings by undertaking this time-consuming work.

Volkan Atunal
Naveen Chauhan
Marine Frouin
Maryam Heydari
Georgina King
Michael Meyer

Nathan Brown
Ginny DeWitt
Markus Fuchs
Zuzanna Kabacinska
Bo Li
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