

LED Society

STEERING COMMITTEE ELECTION

Candidate application form

Title: Postdoctoral researcher

Name: Svenja

Surname: Riedesel



Affiliation: University of Cologne, Germany

e-mail: svenja.riedesel@uni-koeln.de or riedeselsvenja@gmail.com

Select the position you are applying for:

- President
- Young researcher (PhD degree awarded on 30/03/2021)
- Ordinary member

Biography:

I am a post-doctoral researcher and lecturer at the University of Cologne (UoC), with eight years' experience in luminescence research. My research centers on the methodological development of feldspar luminescence, with a focus on linking luminescence phenomena with mineralogical properties.

I obtained my B.A. in Geography, German and Educational Sciences and my M.Sc. in Physical Geography from the UoC in 2015 and 2017, respectively. I first started working with luminescence for my MSc dissertation, dating tsunami deposits from Japan. From September 2017 until March 2021, I was an AberDoc-funded PhD student at Aberystwyth University (AU), working under the supervision of Prof Geoff Duller, Prof Nick Pearce and Prof Helen Roberts on exploring the drivers of variations in feldspar luminescence. My PhD research at AU was supported by multiple visits to Risø (DTU), where I worked under the supervision of Dr. Mayank Jain.

Svenja Riedesel

Besides conducting my own research at the UoC, I am part of the Cologne Luminescence Laboratory (CLL), where I am actively involved in the application of quartz and feldspar luminescence dating. I currently co-supervise two PhD students, who investigate the application of luminescence methods to constrain geomorphological processes in the Atacama Desert. I further teach courses on physical geography to undergraduate and graduate students at the Institute of Geography. In November 2022, I was part of co-organising the German Luminescence and ESR Meeting (DLED). I am also a member of the RLuminescence Developer Team, having contributed multiple dose-rate related functions to the package.

Motivation: *(Please describe your vision for the LED Society, the contribution you would like to make, etc.)*

I am an early career researcher (ECR) with two years' experience post-PhD. I have been actively involved in the luminescence research community since starting my MSc research project at the University of Cologne in 2015, throughout my PhD at Aberystwyth University (2017-2021) and in my current role as post-doc and lecturer at the University of Cologne (2020 - present). So far, I have contributed to the field of luminescence through articles on fundamental feldspar luminescence, dose rates and on luminescence dating. I have gained experience in committee work as member of the British Society for Geomorphology's Postgraduate Forum (2018-2020) and as a representative of the non-professorial academic staff in board meetings of the Institute of Geography at the University of Cologne (2021-2022).

As an ECR I had the opportunity to work with researchers from different institutions and to benefit from their experience. I believe that working with different researchers is key for ECRs to develop a unique research profile and to expand their skill set. My main goal as the Young Researcher representative, would be to use seminar series and workshops to enable networking and to facilitate knowledge transfer between ECRs and more experienced researchers. Besides this, I would like to function as the link between ECRs and the Steering Committee by representing the needs and ideas of ECRs in luminescence and ESR dating.

I envision the LED society becoming a community-driven association that benefits all members of the trapped charge dating community by organising conferences and workshops, supporting ECRs, and by encouraging further laboratory intercomparisons. A society website and newsletter, in addition to continued publication of Ancient TL, would enable efficient exchange of relevant information and would thus be a useful way of connecting members of the trapped charge dating community. Establishing the LED society will help increase the visibility of our community and work in Earth Sciences and Applied Physics.