

# LED Society

## STEERING COMMITTEE ELECTION

### Candidate application form

**Title:** Professor

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#### Select the position you are applying for:

- President**
- Young researcher** (PhD degree awarded on 28/07/2010)
- Ordinary member**

#### Biography:

I am a professor of environmental radioactivity at Faculty of Environmental Science and Engineering Babeş-Bolyai University (BBU), Cluj-Napoca, Romania, where I received my PhD in physics in 2010 and Habilitation in environmental science in 2015. I pioneered the applications of absolute dating methods for obtaining chronologies of sediments in Romania and established and currently lead the Luminescence and Electron Spin Resonance Dating Laboratories in my home institution that will be complemented with electronic microscopy in the following years. I have co-author studies with scientists from over 20 countries. I successfully supervised over a dozen PhD students so far, many of whom I have offered support to attend LED meetings. In 2015 I was awarded a European Research Council (ERC) starting grant (INTERTRAP 678106). INTERTRAP successfully carried out geochronological investigations on loess deposits over four continents and resulted in a significant improvement in our understanding of both the potential as well as the limitations of trapped charge dating methods. Currently I am the PI of an ERC consolidator grant (PROGRESS 101043356) that sets out to develop quartz-based provenance methods by the combined application of luminescence, electron spin resonance and scanning

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electron microscopy based hyperspectral cathodoluminescence. For more information one can visit:

<http://icibns.institute.ubbcluj.ro/centre/environmental-radioactivity-and-nuclear-dating-centre/>

I have attended all LED meetings since the 11th International Conference on Luminescence and Electron Spin Resonance Dating held in Cologne in 2005. I am an active member in European Geosciences Union General assemblies, Solid State Dosimetry meetings and various Loessfest meetings. Recently I have been appointed in the editorial board of Global and Planetary Change Journal.

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

I would like to work on strengthening the connections between the luminescence and electron spin resonance dating communities. I am one of the few practitioners that established laboratories for both methods. Having done so, I am aware of the support emerging laboratories need and I believe that the LED society should play a pivotal role in delivering this support, as well as developing standardisation procedures for common applications. To go beyond the state of the art, our field needs better connections with other disciplines such as materials science. For fundamental research and methodological advances, I strongly believe there is tremendous untapped potential in the application of other spectroscopic and microscopy techniques and we will enter an era of sub-grain investigations. Application-wise the society should make efforts for our field to gain better visibility in associations such as the EGU, AGU and so on. As a member of the equality, diversity and inclusion working group in EGU I highly value these principles that should be implemented by the LED society. Last but not least, we should do our best efforts to offer support to students and early career scientists.