



10th European Conference on Luminescent Detectors and Transformers of Ionising Radiation

First Announcement

Scope and objectives

The Institute of Physics of the Czech Academy of Sciences and Faculty of Nuclear Sciences and Physical Engineering, Czech Technical University in Prague, invite you to the 10th European Conference on Luminescent Detectors and Transformers of Ionising Radiation to be held in Prague, September 9-14, 2018. LUMDETR2018 will continue the tradition established by the previous meetings in Latvia (Riga, 1991), Estonia (Tallin, 1994), Poland (Ustron, 1997), Latvia (Riga, 2000), Czech Republic (Prague, 2003), Ukraine (Lviv, 2006), Poland (Krakow, 2009), Germany (Halle, 2012), Estonia (Tartu, 2015). This conference provides an interdisciplinary forum for the presentation of the latest developments in basic and applied research in the field of radioluminescence, the processes of energy transfer and storage in solid state systems, the physics and chemistry of luminescent phosphor and scintillation materials, and related applications.

Invited lectures will be given by leading scientists to introduce the main topics of the conference. Both oral and poster presentations will create the body of the conference program. Delivered manuscripts will be refereed and we intend to publish them traditionally in the journal Radiation Measurements (Elsevier Publ. House).

Scientific topics of the conference

- ❑ Radioluminescence and scintillation mechanisms, energy transfer and storage, optically and thermally stimulated luminescence in solids
- ❑ Physics and chemistry of luminescent materials for detectors and transformers of ionizing radiation, technology and preparation methods
- ❑ Defects and their role in material performance
- ❑ Novel phenomena, energy transfer and storage in restricted geometries, Nanophosphors, and nanocomposites
- ❑ New detector concepts and novel instrumentation
- ❑ Application of scintillators and transformers of ionizing radiation for medical

- diagnostics, biological research and environmental studies
- ❑ Application of luminescence materials in dosimetry of ionizing radiation including medical dosimetry, ion and cosmic ray dosimetry, and homeland security dosimetry
 - ❑ UV dosimetry and related effects
 - ❑ Emergency dosimetry

Important dates

First announcement, call for abstracts, registration opened	October 31, 2017
Second announcement	December 31, 2017
Deadline for abstracts	April 15, 2018
Notification to authors and the 3 rd announcement	May 15, 2018
Early bird conference fee payment	June 15, 2018
Conference event	September 9-14, 2018

Conference chairpersons

M. Nikl	Institute of Physics of the Czech Academy of Sciences, Prague, Czech Republic
T. Trojek	Dept. of Dosimetry, Faculty of Nuclear Sciences and Physical Engineering, Czech Technical University in Prague, Czech Republic

Conference committees

International Advisory Committee

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Local organisation committee

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 T. Urban

The conference internet site is opened at <https://lumdetr2018.fzu.cz/> where overall information will be continuously updated and registration and abstract submission procedures&tools will be provided.

Conference secretariat - contact us at

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Local information

The conference will take place in the central building of Faculty of Nuclear Sciences and Physical Engineering CTU in Prague, Břehová 7, Prague 1. The conference site is suitably located downtown, 10 minutes from the city center at the Vltava river bank with public transport (tram, underground) within 1-5 minutes walking distance. Accommodation will be provided in comfortable modern student colleges easily reached by the public transport (20-30 min from the conference site) or in selected hotels downtown close to the conference site.

In September there is an intense tourist season in Prague with a rich offering of various cultural events. The weather is generally quite pleasant (day temperatures 20-25 °C).