

**10th European Conference on Luminescent Detectors and
Transformers of Ionizing Radiation
LUMDETR'2018**

Prague, Czech Republic, September 9 – 14, 2018

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 5th 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), and 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.

About 45 persons from 22 countries of Europe, Asia and America is registered, we kindly ask all the interested colleagues to make registration soon.

Conference chairpersons

M. Nikl Institute of Physics of the Czech Academy of Sciences, Prague
T. Trojek Department of Dosimetry and Application of Ionizing Radiation, Faculty of Nuclear
 Sciences and Physical Engineering, Czech Technical University in Prague

Conference committees

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P. Bilski (Poland)
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Local organisation committee

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A. Beitlerová
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P. Kohoutová
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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

Registration procedure

All the registration procedure is accomplished via the WEB site of the conference <https://lumdetr2018.fzu.cz/>. Once you click the “Registration” button, you will be guided and confirmation e-mail will be sent to you automatically after your registration data are successfully recorded.

Methods of Presentation

Both oral and poster presentations will be available for the participants. Preliminarily the contributed oral presentation is planned for 20 min. including discussion. The poster size will be of 100(w)x150(h) cm. The official language of the Conference will be English. The final decision concerning the presentation form will be made by the Programme Committee after evaluation of the submitted abstracts.

Conference Proceedings

The publication of proceedings of the conference is under negotiation with the journal *Radiation Measurements*, the traditional journal for Lumdetr conference proceedings publication. Preliminarily, the contributed paper length is set up to 4 journal pages, while the invited paper up to 6 journal pages. The manuscripts must follow the rules of the journal and will be submitted and refereed after the conference via the Elsevier web site. All the process will be guided by several selected guest editors. Proceedings publication is estimated before September 2019. Maximum one manuscript per a conference participant will be allowed for the publication. The detailed instructions for authors will be included in the Third Circular.

Call For Abstracts

Abstracts, in English, are to be submitted electronically via the conference website (no template is provided). Please don't forget to mark in the Registration procedure the type of presentation you prefer. Maximum two abstracts can be submitted by one person the second presentation being always as a poster. We note that organization committee deserves the right to reject the second abstract due to poster presentation capacity limitations.

Scientific Program

Program will be divided into approximately 14 sessions, which will be introduced by the invited keynote speakers (40 minutes talk) and followed by the contributed oral presentations. Poster sessions will be organized on Tuesday, September 11 and Thursday, September 13, afternoon. Wednesday afternoon is

kept free for the conference excursion. Scientific exhibition is being organized during the conference in a separate room, consult the conference website for further details.

Exhibition

Exhibition is planned within September 10-13, 2018 period. Interested exhibitors are invited to contact conference secretariat. Exhibition fee will be 500-1000 Euro depending on the required size of the exhibition space.

Location

The conference will take place in the central building of Faculty of Nuclear Science and Physical Engineering CTU, Brehova 7, Prague 1. Lecture hall with 180 seats capacity is booked for the conference, two poster sessions will be organized next to the lecture hall as well as the scientific exhibition. Wifi connection will be available in all the conference space.

Registration Fees

| Conference Fee | before June 30 | after June 30 | on-site |
|---------------------|----------------|---------------|----------|
| Professional | 400 Euro | 450 Euro | 500 Euro |
| Student | 220 Euro | 250 Euro | 270 Euro |
| Accompanying person | 50 Euro | 60 Euro | 70 Euro |

The fee includes:

Registration

Book of abstracts (for participants)

Coffee breaks and lunches on-site (for participants)

Welcome party on Sunday, September 9, 2018

Conference excursion

5 day public transport ticket

Conference proceedings for professionals

Accommodation

Block of single and double rooms is booked in the student college “Masarykova kolej” (hotel part, <https://www.suz.cvut.cz/en/dormitories/the-masarykova-dormitory>), 20 min from the conference site using the public transport, subway A line from Dejvicka to Staromestska stations. Approximate prices are given below:

| | |
|---------------------------|------------------------|
| Single room with bathroom | 35 Euro per day |
| Double room with bathroom | 23 Euro per day/person |

Please, mark in registration procedure your interest for this accommodation type. We encourage the booking of double rooms (please fill “roommate”) due to limited availability of single rooms. The date of registration will be considered in the case of capacity exhaustion.

For another accommodation, please consult web site booking.com or a similar one, or contact your travel agent.

Attendance Assistance

The organizers are happy to announce the support from the EC H2020 program, project ASCIMAT, for LUMDETR2018 organization. Especially students, PhD students and young scientists (under 35 years) are strongly encouraged to submit the abstracts, the quality of which will be decisive for the attendance assistance granting (limited number, fee waiver and in selected cases accommodation in Masarykova kolej

will be supported). Please, indicate your preliminary need for a support in the registration procedure or contact the conference secretariat.

Methods Of Payment

After the notification about the acceptance of your abstract the advanced payment can be made in Euro by bank transfer. Credit Cards will not be accepted. Bank commissions, exchange charges or fees are under the responsibility of the registrant. Please note the early bird registration deadline June 30.

The conference account was established at:

Bank: Komerční Banka

Account no.: 19-5373100277

Bank code: 0100

Swift Code: KOMBCZPP

IBAN: CZ1501000000195373100277

Variable symbol: 8401803XXX (XXX is registration number of the participant – will be obtained automatically in the registration procedure)

Bank address: Spalena 51, 110 00 Prague 1, Czech Republic

Summary Of Deadlines

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|--|----------------------|
| Deadline for abstracts | April 15, 2018 |
| Notification to authors and the 3 rd announcement | May 15, 2018 |
| Early bird conference fee payment | June 30, 2018 |
| Conference event | September 9-14, 2018 |

Further Information

Please, consult the conference website, <https://lumdetr2018.fzu.cz/> , which will be continuously updated or contact us at conference secretariat:

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