

ESDIM 1

Timisoara, Romania, 2026

1ST EUROPEAN SCHOOL ON DEFECTS IN INSULATING MATERIALS

Timisoara, ROMANIA, 04-05 July 2026

European School on Defects in Insulating Materials is an accompanying event of the European Conference on Defects in Insulating Materials. Based on the contents of the previous EurDIMs, the School program includes lectures on theoretical and practical aspects of the defects from fundamental issues to applications. The format of the school is designed to encourage interaction between lecturers and attendees, with informal discussions at coffee breaks, meals and social events. The ESDIM 1 will be organized at the West University of Timisoara close to the city center. Accommodation in Student Houses is proposed.

Topics will include all areas related to point and extended defects in bulk materials, thin films and nanostructures. Technological applications will be presented alongside fundamental measurements and theories.

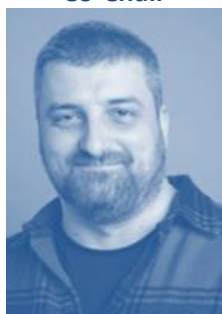
Local organizing committee:

Chair



Assoc. Prof. **Marius Stef**,
West University of
Timisoara, Romania

Co-Chair



Dr. hab. **Maksym Buryi**,
Ph.D., Institute of Plasma
Physics of the Czech
Academy of Sciences,
Prague, Czech Republic

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Prof. **Anatoli Popov**,
Institute of Solid State
Physics, Riga, Latvia

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Prof. **Mikhail Brik**,
University of
Tartu, Estonia

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Dr. **Marina Konuhova**,
Institute of Solid State Physics, Riga, Latvia (office@eurodim.ro)

Members

Prof. Daniel Vizman
Dr. Gabriel Buse
Dr. hab. Maria Poienar, PhD.
PhD student Carla Schornig
PhD student Maximilian Mangra
Alexandru Sipos
Florina Danci

Program of ESDIM-1

Saturday, 4th July 2026 (Room A01 – ground floor)

9:00 – 10:00 Registration

Lecture #1
10h00



Marius Stef,
West University of Timisoara,
Romania

*Spectroscopic investigation of
defect centers in crystals*

10:50 – 11:20 Coffee break (Cafeteria UVT – 1st floor)

Lecture #2
11h20



Robert Jackson,
Keele University, UK

*Computer modelling of defects
and dopants in optical materials*

12:30 – 14:00 Lunch (Restaurant Vineri15 - across the street from the university)

Lecture #3 14:00 – 14:50		Mikhail Brik, <i>University of Tartu, Estonia</i>	<i>Energy levels of impurity ions in crystals from the theoretical point of view</i>
Lecture #4 15:00 – 15:50		Mario E.G. Valerio, <i>Federal University of Sergipe, Brazil</i>	<i>Synchrotron based spectroscopic technique used to characterize defects in materials (specially, absorption spectroscopic techniques)</i>
Lecture #5 15:00 – 15:50		Maksym Buryi, <i>Institute of Plasma Physics, The Czech Academy of Sciences, Czech Republic</i>	<i>Thermal plasma as a unique medium for synthesis, modification and upcycling of materials</i>
19:00 – 22:00 Dinner (Restaurant “Vineri15”)			

Sunday, 5th July 2026

Lecture #6 10:00 – 10:50		Daniel Vizman, <i>West University of Timisoara, Romania</i>	<i>Influence of growth conditions on the defects in crystals</i>
10:50 – 11:20 Coffee break (Cafeteria UVT – 1st floor)			
Lecture #7 11:20 – 12:10		Aleksandr Lushchik, <i>Institute of Physics, University of Tartu, Estonia</i>	<i>Radiative and nonradiative channels of absorbed energy dissipation in wide-gap materials</i>
12:30 – 14:00 Lunch (Restaurant “Vineri15”)			

Lecture #8 14:00 – 14:50		Henk Vrielink, <i>Ghent University, Belgium</i>	<i>Identification of defects in insulating materials using electron paramagnetic resonance spectroscopy</i>
Lecture #9 16:20 – 17:00		Zdenek Remes, <i>Institute of Physics, The Czech Academy of Sciences, Czech Republic</i>	<i>Advanced optical spectroscopy of the solid state</i>
15:50 – 16:20 Coffee break (Cafeteria UVT – 1 st floor)			
Lecture #10 16:20 – 17:10		Matias Velazquez, <i>University of Grenoble Alpes, France</i>	<i>Solubility limits and solute partition in rare earth-doped bulk optical crystal growth</i>
Lecture #11 17:10 – 18:00		Anatoli Popov <i>Institute of Solid State Physics, Riga, Latvia</i>	<i>Storage phosphors - physics and application for radiation imaging and dosimetry</i>
19:00 – 22:00 Welcome reception (Restaurant “Vineri15”)			

*Room **A01**, each lecture will be **45 minutes** + 5 minutes discussions.

Website: www.eurodim.ro

Contact: e-mail: office@eurodim.ro

Organized by West University of Timisoara and Romanian Physical Society

