

Workshop on Bulk Crystal Growth and Epitaxy 2025

Warsaw, 15-16 May 2025 | Detailed program

Day 1 (May 15th)

12:30 | Coffee reception

13:00 | Welcome note and Award ceremony

13:00 – 14:00 prof. Mike Leszczyński

Welcome note and IUCr crystal growing competition award ceremony

14:00 – 15:30 | Invited and Contributed Talks

14:00 – 14:20 dr Piotr Kruszewski (invited)

Deep trap levels in dilute $\text{Al}_x\text{Ga}_{1-x}\text{N}$ films

14:20 – 14:40 dr hab. Marta Sobańska (invited)

PAMBE growth of GaN nanowires on metallic substrates

14:40 – 15:00 dr Aleksandra Wierzbicka (invited)

X-ray diffraction of nanowires - application of conventional metrology techniques to unconventional systems

15:00 – 15:15 prof. Jan Muszalski

MBE growth of InGaAlAs strain engineered heterostructures of membrane external cavity surface emitting lasers for the emission in 1500-1800 nm band

15:15 – 15:30 dr Marta Chabowska

Unraveling Meander Formation: Surface Energy Potential

15:30 – 16:00 | Coffee break

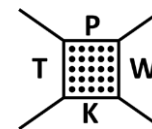
16:00 – 18:00 | Contributed Talks

16:00 – 16:15 dr Katarzyna Sadecka

Eutectic microspheres, their solidification and properties

16:15 – 16:30 Dr Jarosław Sar

Eutectic Composites for Photoelectrochemical Water Splitting



16:30 – 16:45 Misha Khalid

Inverse thermal anisotropy in CdMgO measured using photothermal infrared radiometry and thermorefectance

16:45 – 17:00 dr Govindan Vadivel

Investigation on photoluminescence properties and possible energy transitions between rare-earth ions in the glass matrix

17:00 – 17:15 dr Hamid Reza Darabian

Dielectric Properties of Eutectic Materials at GHz Range

17:15 – 17:30 dr hab. Janusz Sadowski

Converting ferromagnet to altermagnet - annealing induced transformation of epitaxial MnAs to MnTe

17:30 – 17:45 Ali Abbas

Directional solidification of III-V compound semiconductor eutectic

17:45 – 18:00 prof. Stanisław Krukowski

III-N nitride growth on polar surfaces by MOVPE and PA-MBE: critical assessment based on ab initio modeling in historical perspective

18:30 – 21:00 | Workshop Dinner

Day 2 (May 16th)

09:00 – 11:00 | PTWK General Meeting

11:00 – 11:15 | Coffee reception

11:15 – 13:00 | Invited and Contributed Talks

11:15 – 11:35 dr hab. Jacek Krawczyk (invited)

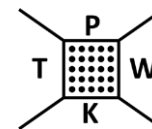
The industrial growth of crystals with complex shapes.

11:35 – 11:55 dr Robert Paszkowski (invited)

Advanced characterization of defect structures in single-crystalline superalloys

11:55 – 12:15 dr Samir El-Ahmar (invited)

Epitaxial graphene technology for the future nuclear industry



12:15 – 12:30 dr Piotr Piotrowski

Harnessing plasmonic phenomena in glass composites obtained by crystal growth techniques

12:30 – 12:45 dr hab. Piotr Wojnar

Optically active indium selenide crystal phase heterostructures grown by molecular beam epitaxy

12:45 – 13:00 Taras Zhezhera

Luminescent properties of Bi_3TeBO_9 crystalline materials doped with rare earth ions

13:00 – 14:00 | Lunch break

14:00 – 16:00 | Contributed Talks

14:00 – 14:15 Nada Aghad

Hyperuniform Disorder Structure of $\text{Tb}_2\text{Ti}_2\text{O}_7$ - TiO_2 eutectic Rod-like structure

14:15 – 14:30 dr Olesia Voloshyna

Laser-assisted floating zone growth of incongruently melting compound

14:30 – 14:45 dr Monika Tomczyk

Self-organized eutectic materials for miniaturized optical isolators

14:45 – 15:00 Krzysztof Markus

Topological insulator eutectic heterostructures

15:00 – 15:15 Juby Alphonsa Mathew

Eu-Doped ZnO-Based Short-Period Multi-Quantum Well Structures

15:15 – 15:30 prof. Oleg Sidletskiy

Growth of Tb-enriched sesquioxide single crystals for magneto-optic applications

15:30 – 15:45 dr Aravinthkumar Padmanaban

Growth and Characterization of heavy Eu^{3+} -doped $\text{Bi}_{12}\text{GeO}_{20}$ Single Crystals

15:45 – 16:00 dr Kingshuk Bandopadhyay

Topological Surface States Meet Scalability: A Bottom-Up Approach to TI Heterostructures

16:00 – 16:30 | Final Remarks