



81st International Scientific
Conference of the
University of Latvia 2023

FIZIKA. IZGLĪTĪBA. PRAKSE. Augstskolu fizikas izglītības
praktiķu seminārs. PHYSICS. EDUCATION. PRACTICE.
Seminar for University Physics Education Practitioners

PHYSICS. EDUCATION. PRACTICE. Seminar for University Physics Education Practitioners.
International 81th Scientific Conference. University of Latvia. February 2, 2023 at 9.00 (7.00 UTC)

I. Dudareva, L. Belogradova, LU FMOF

9.00 Opening

9.05 **Breaking the vicious circle of physics disengagement: From undergraduate physics teaching to teacher education.** *Dr. Valery Milner, Associate Professor, Department of Physics and Astronomy, Faculty of Science, Dr. Marina Milner-Bolotin, Professor, Department of Curriculum and Pedagogy, Faculty of Education, University of British Columbia, Vancouver, Canada.*

9.55 **Next Generation Modeling Courses for Teachers.** *Dr. Mark Lattery, Professor of Physics at the University of Wisconsin Oshkosh, USA.*

10.20 **Scientific and engineering practices in physics education: a practitioner's view.** *Kaido Reivelt, Head of Centre of Physics Education, University of Tartu, Estonia.*

10.45 Kafijas pauze/Coffee break

11.00 **Why Science Competitions? On the role of competitive out-of-school science activities for motivated and talented students.** *Dr. Stefan Petersen, Physics Education, IPN – Leibniz Institute for Science and Mathematics Education, Kiel, Germany.*

11.45 **Cooperation between schools and universities in the provision of advanced secondary school course Physics II: expectations, reality and perspectives.** *Prof., Dr.phys. Juris Blūms, Riga Technical University, Technical Physics Institute, director, Latvia.*

12.05 **Student-centered approach to teach Mathematics for physicists.** *Dr. Jānis Cīmurs. Docent, Department of Physics, Faculty of Physics, Mathematics and Optometry, University of Latvia.*

12.30 **Versatile uses of interactive educational video in physics labs remotely and onsite.** *Dr. Jelena Kosmaka, University of Latvia, Riga Stradins University, Riga, Latvia.*

12.55 **Cooperation between researchers, teachers, the industry and policy makers for physics education: a Latvian experience story.** *Girls Zageris. Lecturer and researcher, Department of Physics, Faculty of Physics, Mathematics and Optometry, University of Latvia.*

13.20 Questions and discussions

Zoom meeting link:

<https://us02web.zoom.us/j/89378057934?pwd=ZGxZVi82OUg4SmdHd1ZnQnREVmxLZz09>

Meeting ID: 893 7805 7934

Passcode: 619291