



VILNIAUS GEDIMINO
TECHNIKOS UNIVERSITETAS
STATYBOS FAKULTETAS

TAIKOMOSIOS MECHANIKOS KATEDRA

VILNIUS GEDIMINAS TECHNICAL UNIVERSITY

INSTITUTE OF MECHANICAL SCIENCE

XXXIV LITHUANIAN WORKSHOP OF COMPUTATIONAL MECHANICS

30th of April 2026, 13:00 hr.

Vilnius Gediminas Technical University

The workshop will be organized in a hybrid format:

- In person: Vilnius Gediminas Technical University, S1 (SRC) 602, Saulėtekio al. 11, Vilnius, Lithuania.
- Online: via Microsoft Teams (MS TEAMS):
<https://teams.microsoft.com/meet/314522774398667?p=9QO6OQEINPoa15mmnK>

PROGRAM

12:45 – 13:00 Registration, coffee, tea.

13:00 – 13:10 Opening. Wellcome speech:

Chairman of Organizing Committee: doc. dr. S. Borodinas.

Chairman of Scientific Committee: prof. habil. dr. R. Kačianauskas

**13:10 – Workshop session. Language of the workshop: Lithuanian, English.
10 minutes for a presentation and 5 minutes for questions and discussion.**

13:10 – 13:25 SPEAKER: doc. dr. Sergejus Borodinas (Vilnius Tech, Taikomosios mechanikos katedra)

Title of presentation:

S. Borodinas, “Ultrasonic Transducer for Generating a Reversible Acoustic Rotational Field of High Intensity”

13:25 – 13:40 SPEAKER: prof. dr. Raimondas Jasevičius (Vilnius Tech, Skaitinio modeliavimo laboratorija)

Title of presentation:

R. Jasevičius, “Dual-Behavior Modeling of Biological Particles in Multiphysics Systems”

13:40 – 13:55 SPEAKER: PhD student Muhammad Usman Yousaf (KTU, Mechanikos inžinerijos katedra)

Title of presentation:

M. U. Yousaf, R. Gaidys, B. Narijauskaitė, “3D Model of Insect Mechanoreceptor”

13:55 – 14:10 SPEAKER: PhD student Alicia Menéndez Hurtado (Vilnius Tech, Taikomosios mechanikos katedra)

Title of presentation:

A. M. Hurtado, R. Kačianauskas, S. Borodinas, “A Parametric Finite Element Model of the Mitral Valve for Patient-Specific Simulations”

14:10 – 14:25 SPEAKER: prof. dr. Algirdas Maknickas (Vilnius Tech, Mechanikos institutas)

Title of presentation:

A. Maknickas, R. Jasevičius, “SARS-CoV-2 viruso spyglio ir jo receptoriaus baltymų molekulių komplekso 7DF4 sąveikos jėgų skaitinis tyrimas molekulinės dinamikos metodu”

14:25 – 14:40 SPEAKER: student Shreesham Pandey (University of Delhi, Kirori Mal College, Department of Physics)

Title of presentation:

S. Pandey, “Migration Mechanics of Cold Gas Clouds and Massive Objects in AGN Discs Surrounding SMBHs”

14:40 – 14:55 SPEAKER: dr. Darius Mačiūnas (Vilnius Tech, Taikomosios mechanikos katedra)

Title of presentation:

D. Mačiūnas, S. Borodinas, R. Kačianauskas, R. Boris, S. Nosewicz, M. Chmielewski, R. Stonys, „From Microstructure to Insulation: Multiscale Thermo-Mechanical Modeling of Expanded Glass Granule Composites“

14:55 – 15:00 CONCLUDING WORD:

Chairman of Organizing Committee – doc. dr. S. Borodinas

15:00 – 15:30 Discussion and coffee

15:30 End of the workshop

Chairman of Scientific Committee

prof. habil. dr. R. Kačianauskas

Chairman of Organizing Committee

doc. dr. S. Borodinas

Secretary of Scientific and Organizing Committee

dr. Darius Mačiūnas