



VILNIAUS GEDIMINO
TECHNIKOS UNIVERSITETAS
STATYBOS FAKULTETAS

TAIKOMOSIOS MECHANIKOS KATEDRA

VILNIUS GEDIMINAS TECHNICAL UNIVERSITY

INSTITUTE OF MECHANICAL SCIENCE

XXXIII LITHUANIAN WORKSHOP OF COMPUTATIONAL MECHANICS

24th of April 2025, 12:00 p.m.

Vilnius Gediminas Technical University

The conference will be held in a hybrid way:

- In person: Vilnius Gediminas Technical University, Old Senate meeting hall (S2 (SRA-I) 208: Aula Doctoralis hall), Saulėtekio al. 11, LT-10223 Vilnius, Lithuania.
- Remotely via the ZOOM platform (Meeting ID: 348 133 0910
<https://litedm.zoom.us/j/3481330910?omn=99822221628>).

PROGRAM

11:45 – 12:00 Registration, coffee, tea.

12:00 – 12:05 Opening. Wellcome speech:

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

12:05 – Workshop session. Language of the workshop: Lithuanian, English.

10 minutes for a presentation and 5 minutes for questions and discussion.

12:05 – 12:20 SPEAKER: doc. dr. Sergejus Borodinas (Vilnius Tech, Taikomosios mechanikos katedra)

Title of presentation:

Sergejus Borodinas, „Destruction Of Algae Cells By Electro-Hydraulic Shock“

12:20 – 12:35 SPEAKER: dr. Urtė Radvilaitė (Vilnius Tech, Informacinių sistemų katedra)

Title of presentation:

U. Radvilaitė, Š. Skuodis, T. Tamošiūnas, R. Kačianauskas, “Investigation of shape for the Baltic sea coastal area sand particles using spherical harmonics”

12:35 – 12:50 SPEAKER: dr. Jonas Klimantas (Uvireso, UAB, Direktorius)

Title of presentation:

Jonas Klimantas, „Kosminių palydovų varikliai Uvireso įmonėje“

12:50 – 13:05 SPEAKER: dr. Tim Tofan (Vilnius Tech, Taikomosios mechanikos katedra)

Title of presentation:

Tim Tofan, „Ultrasmulkių dalelių sąveikos skaitinis tyrimas“

13:05 – 13:20 SPEAKER: prof. dr. Artūras Kilikevičius (Vilnius Tech, Mechanikos ir medžiagų inžinerijos katedra)

Title of presentation:

Artūras Kilikevičius, „Taikomieji mechanikos mokslo pavyzdžiai“

13:20 – 13:35 SPEAKER: PhD student Muhammad Usman Yousaf (KTU, Mechanikos inžinerijos katedra), *remotely via ZOOM*

Title of presentation:

Muhammad Usman Yousaf, Rimvydas Gaidys, Birutė Narijauskaitė, „Dragonfly Fore-Wing Finite-Element Model“

13:35 – 13:50 SPEAKER: PhD student Alicia Menéndez Hurtado (Vilnius Tech, Taikomosios mechanikos katedra)

Title of presentation:

Alicia Menéndez Hurtado, Rimantas Kačianauskas, Sergejus Borodinas, „3D simulation of a mitral valve for clinical applications“

13:50 – 14:05 SPEAKER: PhD student Saulius Indriūnas (Vilnius Tech, Taikomosios mechanikos katedra), *remotely via ZOOM*

Title of presentation:

Saulius Indriūnas, „Behavioural analysis of innovative infrastructure masts“

14:05 – 14:20 SPEAKER: dr. Darius Mačiūnas (Vilnius Tech, Taikomosios mechanikos katedra)

Title of presentation:

Darius Mačiūnas, Rimantas Kačianauskas, Renata Boris, Szymon Nosewicz, Marcin Chmielewski, Rimvydas Stonys, „A Computational Framework for the Analysis of Cenosphere-Based Composites“

14:20 – 14:25 CONCLUDING WORD:

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

14:25 – 15:00 Discussion and coffee

15:00 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