






# Advanced Characterization of Acoustic Materials and Fire Performance

## Workshop Programme

Organized within the framework of the NATO Science for Peace and Security

### Workshop Programme

**Place:** Hotel "Tami Residence", Niš – Durmitorska prilaz 1

Workshop Objectives	Expected Outcomes	Target Audience	Training Approach
 Advanced acoustic measurement techniques  Fire performance evaluation methods	 Enhanced research skills  Interdisciplinary knowledge exchange	 Young scientists & graduate students	 Lectures & hands-on sessions

#### Day 1 – 6 April 2026

- 09:00 – 10:00 Registration & Welcome
- 10:00 – 10:10 Opening remarks
- 10:10 – 11:00 **Dejan Ćirić** – *Measurement of the Sound Absorption Coefficient under Anechoic Conditions*
- 11:00 – 12:00 **Branko Radičević**  
Acoustic Characterization and Structural Optimization of Porous Materials and Their Mixtures
- 12:00 – 12:30 Coffee break
- 12:30 – 13:15 **Petar Jovanović** – Determination of Acoustic Material Properties Using the Transfer Function Method
- 13:15 – 14:00 **Petar Jovanović** – Determination of Acoustic Material Properties Using the Transfer Matrix Method
- 14:00 – 15:30 Lunch

#### 16:00 – 18:00 Laboratory Session



- Transfer Function Method (impedance tube measurements)
- Transfer Matrix Method (impedance tube measurements)
- Semi-arc setup for measuring the sound absorption coefficient under anechoic conditions

#### Day 2 – 7 April 2026

- 09:00 – 10:00 Registration & Welcome
- 10:00 – 10:10 Opening remarks
- 10:10 – 11:00 **Darko Zigar** – *Application of Advanced Computational Simulation Tools in Fire Safety*
- 11:00 – 12:00 **Milan Protić** – Fire Safety Requirements for Acoustic Materials, EN 13501-1 Classification and Principles of Key Calorimetric Test Methods
- 12:00 – 12:30 Coffee break
- 12:30 – 14:00 **Nikola Misić** – Experimental Analysis of Fire Performance of Acoustic Materials Measured Parameters and Practical Outcomes
- 14:00 – 15:30 Lunch

#### 16:00 – 18:00 Laboratory Session

- Experimental procedures for evaluating the the performance of acoustic materials
- interpretation of reaction to fire classification according to EN 13501-1
- Key calorimetric test methods and interpretation of test parameters

