



**University of Architecture, Civil Engineering and Geodesy**



**NEEC**

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UNIVERSITY  
OF ARCHITECTURE  
CIVIL ENGINEERING  
AND GEODESY



**EEF<sub>26</sub>**



**NEEC**

## Earthquake Engineering Forum (EEF.26)

**Актуални проблеми на сеизмичното инженерство**

**Contemporary Issues in Earthquake Engineering**

Dates: May 17-22, 2026  
Venue: UACEG, Sofia, BG  
Languages: English, Bulgarian

| Day 2 - May 19, 2026 - Tuesday                                                                                                                                                                    |                                                                                                                                               |                   |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| <b>Panel 3 – Research Conference “Innovative methods in modeling the response of structures to seismic impacts”</b>                                                                               |                                                                                                                                               |                   |
| <b>Co-organizer: Institute of Mechanics, Bulgarian Academy of Science</b>                                                                                                                         |                                                                                                                                               |                   |
| <b>Participants: Registered participants of the UACEG, partner organizations and international guests</b>                                                                                         |                                                                                                                                               |                   |
| <b>Note: Selected articles after review will be included in separate issues of the „Journal of Theoretical and Applied Mechanics“, Powered by Scopus and WoS, Journal Impact Factor 2024: 0.3</b> |                                                                                                                                               |                   |
| D&T: May 19, 2026 – 9.30 – 12.30                                                                                                                                                                  | Venue: UACEG, NEEC – REC B067                                                                                                                 | Language: English |
| Chair: prof. d-r eng. Mihaela Kouteva-Guencheva                                                                                                                                                   |                                                                                                                                               |                   |
| 09.30 - 09.50                                                                                                                                                                                     | <b>Topalska, M., M. Kouteva-Guentcheva. Design Accelerograms Derivation for Dynamic Analysis of Retaining Walls. “EnviroRisks 2026” № 27</b>  |                   |
|                                                                                                                                                                                                   | <i>M. Topalska, Eng. , PhD student UACEG</i>                                                                                                  |                   |
| 09.50 – 10.10                                                                                                                                                                                     | <b>Baban A. Bapir, Rekan Al-jaf, Lars Abrahamczyk. Damage Effects of Cascading Earthquakes on RC Structures</b>                               |                   |
|                                                                                                                                                                                                   | <b>JTAM № 1</b>                                                                                                                               |                   |
|                                                                                                                                                                                                   | <i>B. Bapir.</i>                                                                                                                              |                   |
|                                                                                                                                                                                                   | <i>Bauhaus-Universität Weimar, Germany</i>                                                                                                    |                   |
| 10.10 – 10.30                                                                                                                                                                                     | <b>Thanopoulos, P., P. Tzantaridis. From Research to Practice: Evolution of the INERD Dissipative Brace Connection</b>                        |                   |
|                                                                                                                                                                                                   | <b>JTAM № 2</b>                                                                                                                               |                   |
|                                                                                                                                                                                                   | <i>P. Thanopoulos.</i>                                                                                                                        |                   |
|                                                                                                                                                                                                   | <i>National Technical University of Athens. Greece</i>                                                                                        |                   |
| 10.30 – 11.00                                                                                                                                                                                     | Coffee break                                                                                                                                  |                   |
| 11.00 – 11.20                                                                                                                                                                                     | <b>Arnaudov, N., Tzv. Georgiev, V. Tanev. Experimental Study on Ultra-Low-Cycle Fatigue of Structural Steel Members under Cyclic Bending.</b> |                   |
|                                                                                                                                                                                                   | <b>JTAM № 3</b>                                                                                                                               |                   |
|                                                                                                                                                                                                   | <i>N. Arnaudov, Dr. Eng., UACEG, Department of Steel, Timber and Plastic Structures.</i>                                                      |                   |
| 11.20 – 11.40                                                                                                                                                                                     | <b>Rizov, V. Study Of The Critical Impact Potential Energy For Inhomogeneous Beams With A Longitudinal Crack.</b>                             |                   |
|                                                                                                                                                                                                   | <b>JTAM № 4</b>                                                                                                                               |                   |
|                                                                                                                                                                                                   | <i>V. Rizov, Prof.. Ph.D. Eng. UACEG, Dep. of Technical Mechanics</i>                                                                         |                   |

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| 11.40 – 12.00 | <b>Todorov, T., P. Pavlov. Forced Undamped Vibrations of a Rotating Body Under Determined Kinematic Disturbances.<br/>JTAM № 5</b>                                |
|               | <i>T. Todorov, Chiev. ass. Ph.D. Eng., UACEG, Dep. of Technical Mechanics</i>                                                                                     |
| 12.00 – 12.20 | <b>Pavlov, P., R. Nikolov. Experimental analysis of torcreting as a basic method for seismic reinforcement of one-bay one-story stone buildings.<br/>JTAM № 6</b> |
|               | <i>R. Nicolov, Ph.D. Student. UACEG, Dep. of Technical Mechanics</i>                                                                                              |
| 12.20 – 12.40 | <b>Shopov, G., P. Pavlov, D. Blagov. Dynamic study of a simplified single-degree-of-freedom system with and without seismic isolation.<br/>JTAM № 7</b>           |
|               | <i>G. Shopov, Ph.D. Student. UACEG, Dep. of Structural Mechanics</i>                                                                                              |
|               |                                                                                                                                                                   |