

DISC2025

5th International Student
Conference

ABSTRACT BOOK



DEPARTMENT OF
ENVIRONMENTAL
ENGINEERING AND
OCCUPATIONAL
SAFETY AND HEALTH



5th DIFENEW INTERNATIONAL STUDENT CONFERENCE DISC2025



**Faculty of Technical Sciences
University of Novi Sad**

**Hybrid event
11th & 12th December, 2025
Novi Sad, Serbia**

Organizers:

Department of Environmental Engineering and Occupational Safety and Health
Faculty of Technical Sciences, University of Novi Sad, Serbia

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PREFACE

This Abstract Book presents the collected contributions of the International Student Conference DISC2025, a hybrid academic event held on 11–12 December 2025 at the Science Technology Park Novi Sad. DISC2025 continues the conference's mission of fostering interdisciplinary dialogue and encouraging the active involvement of students, early-career researchers, and professionals in addressing contemporary sustainability challenges.

Under the central theme *Sustainability in Action*, this year's conference emphasizes the transition from conceptual frameworks to practical implementation. The abstracts included in this volume reflect a broad spectrum of research and project-based contributions that connect academic knowledge with real-world applications across environmental protection, occupational safety and health, sustainable project management, strategic human resource and business management, civil engineering and infrastructure, and Education 3.0, with a particular focus on digital and inclusive learning.

DISC2025 provides a collaborative platform where participants from academia, industry, and the public sector engage through paper presentations, interactive panels, and applied project exhibitions. Particular attention is devoted to emerging topics such as the Green Agenda, ESG principles, circular economy models, and digital innovation in engineering and management practices, underscoring their importance for sustainable development at local, regional, and global levels. In addition to the main conference sessions, DISC2025 features a dedicated *Project Promotion* session within Jean Monnet Square, highlighting project-based initiatives that strengthen the link between academic research, European policy frameworks, and practical implementation.

We extend our sincere appreciation to all authors whose work contributes to the quality and diversity of this publication, as well as to the members of the Scientific, Program, and Organizing Committees for their dedication and professionalism. Their collective efforts have been instrumental in shaping a conference that promotes knowledge exchange, critical thinking, and interdisciplinary cooperation.

It is our hope that the abstracts presented in this book will serve not only as a record of DISC2025, but also as a source of inspiration for further research, collaboration, and innovation in the development of a more sustainable future. Looking ahead, the DISC conference series will continue with DISC2026, further strengthening its role as an international platform for student engagement, interdisciplinary research, and applied sustainability initiatives.

With kind regards,

Dr. Maja Petrović

President of the Organizing Committee and Editor



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STRENGTHENING OSH THROUGH SUSTAINABLE RISK MANAGEMENT

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Abstract: Providing adequate occupational safety and health (OSH) is essential for sustainable and responsible project implementation, especially in environments where workers are exposed to changing operational, environmental, and organizational risks. This paper presents the experience from field operations on infrastructure and environmental projects, where sustainable risk-management practices became part of daily OSH procedures. In practice, this meant taking a more organised approach to identifying risks on site, unifying how we handle and separate different types of waste, and making sure all materials were clearly and permanently labelled. We also paid attention to the condition and placement of fire extinguishers, the state of machines and their safe positioning and fencing on the site. Proper storage of chemicals was regularly checked, along with installing different types of barriers to prevent pollution and protect workers from potential hazards. Simple digital tools were used for reporting incidents and near-misses, and short toolbox talks were held to address both safety and environmental points relevant to the day's tasks. Finally, each work location was restored to a condition as close as possible to its original state after the completion of field activities. Special attention was given to strengthening communication between the contractors and the project team, as well as to using clear visual safety cues. Results showed a documented reduction in recurrent minor incidents, the elimination of previously observed non-conformities related to labelling and waste management. Inspections indicated improved compliance with legal and project-specific requirements, while workers reported greater clarity regarding procedures and responsibilities. Overall, the results show that improving OSH practices leads to safer work and better risk control. The case demonstrates that even relatively simple, low-cost interventions, when applied consistently, can contribute to safer, more resilient, and environmentally responsible workplaces.

Keywords: *Occupational safety; Sustainability; Risk management; Safety culture; Hazard identification.*