

## Invited speakers ErgoWork 2024

Friday, 1 November 2024



**Prof. Anca DRAGHICI,**  
**Politehnica University of Timisoara,**  
**President of the Ergonomics and**  
**Workplace Management Society in**  
**Romania**



**As. Dr. Maria Elena BOATCA,**  
**Politehnica University of Timisoara,**  
**Founding member of the Ergonomics and**  
**Workplace Management Society in**  
**Romania**

### **ErgoWork Activities and Initiatives in the Last 5 Years (2019 – 2024)**

This presentation will make a synthesis of the ErgoWork association (<https://ergoworksociety.com/blog/>) activity in the last years. We will introduce the ErgoWork project with echo in the community, ErgoWork consulting and training activities and conferences from 2019 till 2024. The confirmation of our efforts was recognized by accepting the Romanian ergonomics association as full member the Federation of European Ergonomics Societies (FEES), in 2020 and as full member of the International Ergonomics Association (IEA), in 2023. The panorama of association events from the last 5 years is also accompanied by scientific evidence of the recognition of the activity of its members at the national level, but especially internationally.



**Prof. Eur. Erg. Dr. Gyula SZABO, Óbuda University, Hungarian**  
**Ergonomics Society, Federation of European Ergonomics Societies**  
**(FEES) representative for Communication and Promotion**  
**Committee**

### **Occupational Safety and Health in the Artificial Intelligence Era**

This presentation explores workplace safety and health perspectives amidst rapid advancements in artificial intelligence (AI). It examines AI's potential benefits and challenges, such as AI as a hazard, the evolving role of safety professionals, and innovative tools for managing workplace risks. The discussion emphasizes the need for updated regulations to ensure a safe and healthy working environment in the AI era. This presentation is a contribution of the FEES to the EU-OSHA's [Healthy Workplaces Campaign, "Safe and Healthy Work in the Digital Age" \(2023-2025\)](#).



**Dr. Eng. Anca MOCAN, Water & Environmental Engineering  
Center of Excellence at Amaris Consulting, Switzerland,  
[https://amaris.com/center-of-excellence/water-  
environmental-engineering/](https://amaris.com/center-of-excellence/water-environmental-engineering/)**

**Founding member of the Ergonomics and Workplace  
Management Society in Romania**

### **Ergonomic Solutions to Reduce Workload in Airport Baggage Handling**

With a 20% increase in air travel passengers forecasted for the next 10 years in Belgium there is a strong need to renew existing baggage handling infrastructure at the national airport. With ergonomics taking a high priority from both the national laws as well as the prevailing workers unions, this renewal is the perfect opportunity to introduce solutions that would reduce worker body loads and increase overall loading speed. We look at the options and analyze their feasibility.



**Melita MILENKOVIC, Ph.D., LL.M., Faculty of Transport and  
Traffic Sciences, University of Zagreb, Croatia**

### **Legal And Safety Aspects of the Application of Automated and Autonomous Vehicles in the Republic of Croatia**

This presentation will address the legal, safety, and ergonomic considerations involved in the application of automated and autonomous vehicles in the Republic of Croatia. It highlights a significant issue where the Croatian government has referenced Directive (EU) 2022/738, which concerns the use of vehicles hired without drivers for the transport of goods but does not cover the automation and autonomy of passenger road vehicles. The presentation will argue that the government should have instead referred to Regulation (EU) 2019/2144, concerning motor vehicle safety and passenger protection, and Commission Implementing Regulation (EU) 2022/1426, both of which introduce the concepts of automated and autonomous vehicles into the EU legal framework. In addition to discussing the legal pathways and the necessary infrastructure for the smooth operation of such vehicles on Croatian roads, the presentation will also address the ergonomic impact of automated and autonomous vehicles on both drivers and passengers, including how vehicle design and technology can influence comfort, safety, and user interaction in a driverless environment.



**Prof. Aleksandar ZUNJIC, University of Belgrade, Faculty of Mechanical Engineering, Industrial Engineering Department, Serbia, President of the Ergonomics Society of Serbia (ESS), Secretary General of the Federation of European Ergonomics Societies (FEES).**

### **Contribution of Ergonomics to the Development of Industry 5.0**

This presentation explores the contribution of ergonomics to the development of Industry 5.0, focusing on achieving a human-centric approach. It presents four key ergonomic principles: including human operators in equipment design, utilizing workplace expertise, involving teams in the design process, and recognizing the limitations of technology. The paper establishes the ergonomic nature of these principles and their connection to Industry 5.0's human-centric approach. By incorporating these principles, organizations can develop systems and environments better suited to human needs, capabilities, and limitations, aligning with Industry 5.0's goal of creating human-centered industrial processes.



**Ec. Elena FILIP & Ing. Ghiorgi FILIP, “All for you” association, Romania, <https://www.totulpentrutine.ro/>**

### **The Power to Move on! (*Puterea de a merge mai departe!*)**

Two special guests who will introduce us to a special world! The presentation is an opening to an incredible world where there are incredible projects and initiatives developed in inclusive communities. Graduates of the master's program "Echitera - Rehabilitation Therapies Equipment" (National University of Science and Technology Politehnica Bucharest, Romania), Elena and Ghiorgi FILIP will review a series of initiatives they have had in recent years to help young people with disabilities. Moreover, the presenters will demonstrate their creative spirit, through their involvement in the establishment of the association "Everything for you" and for the development and promotion of sports programs for young people with disabilities.