



Ing. Marek Moravec, PhD.

Assistant Professor

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CURRICULUM

1997 - 2003	Technical University of Košice, Faculty of Mechanical Engineering, Department of Environmental Sciences and Process Management
2003	Mechanical engineer
2003	Researcher
2004	Inter doctoral student
2008	Assistant Professor
2009	PhD., in field 4.3.2 environmental engineering
2009	Assistant Professor

LANGUAGE SKILLS

- English language

SCIENTIFIC ORIENTATION

- Objectification of physical factors of the environment in the working and environment,
- Noise studies and noise maps modelling,
- Dynamic noise visualization,
- Research and development of new acoustic systems and materials,
- Measurements using sound and vibration analysers and electrical and magnetic quantities analysers,
- Psychoacoustic studies and design of acoustic product design,
- Research and development in recycling and recycling technologies and waste management.

PEDAGOGICAL ACTIVITIES

In the training of exercises from the subjects Acoustics and vibrations, Objectification of environmental physical factors, Environmental engineering, Compulsory industrial accidents, Environmental and social engineering, Team work, Ecology and environmental protection, Simulation of propagation physical field, Computer graphics, Computer aided constructions

PROJECTS (COORDINATOR, CO-SOLVER)

- Co-solver at **the project VEGA 1/0453/08**: Research on possibilities of increasing acoustic parameters of noise systems by applying a unique technology of visualization of noise emissions.
- Co-solver at **the project KEGA 3/7426/09**: Creation of didactic documents and publication of the university textbook "Physical factors of the environment - objectification and assessment" for the main disciplines 2 and 3rd degree of higher education study of environmentally tuned study programs.
- Co-solver at **the project KEGA-064TUKE-4/2011**: **Creation** of a portal of professional profile of the scientific and research platform "Acta Mechanica Slovaca"
- Co-solver at **the project APVV-0176-07**: Research of acoustic parameters of recycled materials and systems applicable in protection against industrial and traffic noise.
- Co-solver at **VEGA 1/3232/06**: Theoretical and methodological aspects of dismantling consumer electronics products at the end of their lifespan for recycling needs.
- Co-solver at **the ESF-ITMS Excellence 26220120060 ACTIVITY 1.2**: Technical, Environmental and Humane Risk Management Research Centre for the sustainable development of engineering production and products.
- Co-solver at the **TEMPUS 516729** project: Development and improvement of study programs focused on automotive and spatial planning engineering in Serbia.
- Co-solver at **the project APVV-21-0120**: Research of an innovative method of monitoring the noise load generated by overhead power lines.
- Co-solver at the **UNIVNET č. 0201/0082/19** project: University and Industrial Research and Education Platform of the Recycling Society
- Co-solver at **VEGA 1/0485/22**: Development of methods for increasing the acoustic quality of product sound by visualization and psychoacoustic methods.
- Co-solver at the project **KEGA-009TUKE-4/2021**: Implementation of the latest knowledge from recycling technologies for material recovery of product components at the end of their life cycle.

FOREIGN STAYS

2006	Vesprém University, Hungary
2009	Poznań University of Technology, Poland
2010	Technical University of Czestochowej, Poland
2018	Krakov University of Technology
2022	Lublin University of Technology

THE MOST IMPORTANT PUBLICATIONS

- [1]. BADIDA, Miroslav - SOBOTOVÁ, Lýdia - KRÁLIKOVÁ, Ružena - DZURO, Tibor - MORAVEC, Marek: **Environmentálne aspekty navrhovania strojárskych objektov - Ekodizajn** - 1. vyd. - Košice: Technická univerzita v Košiciach - 2020. - 371 s. [print]. - ISBN 978-80-553-3590-2.
- [2]. PIŇOSOVÁ, Miriama - ANDREJIOVÁ, Miriam - BADIDA, Miroslav - MORAVEC, Marek: **Occupational Disease as the Bane of Workers' Lives: A Chronological Review of the Literature and Study of Its Development in Slovakia. Part 1** - 2021. In: International journal of environmental research and public health: open access journal. - Basel (Švajčiarsko): Multidisciplinary Digital Publishing Institute Roč. 18, č. 11 (2021), s. [1-29] [online, print]. - ISSN 1661-7827 Spôsob prístupu: <https://www.mdpi.com/1660-4601/18/11/5910>.
- [3]. MORAVEC, Marek - BADIDA, Miroslav - MIKUŠOVÁ, Nikoleta - SOBOTOVÁ, Lýdia - ŠVAJLENKA, Jozef - DZURO, Tibor: **Proposed options for noise reduction from a wastewater treatment plant: Case study** - 2021. In: Sustainability. - Bazilej (Švajčiarsko): Multidisciplinary Digital Publishing Institute Roč. 13, č. 4 (2021), s. [1-22] [online]. - ISSN 2071-1050 (online).
- [4]. ŠVAJLENKA, Jozef - KOZLOVSKÁ, Mária - BADIDA, Miroslav - MORAVEC, Marek - DZURO, Tibor - VRANAY, František: **Analysis of the Characteristics of External Walls of Wooden Prefab Cross Laminated Timber** - 2020. In: Energies. - Basel (Švajčiarsko): Multidisciplinary Digital Publishing Institute Roč. 13, č. 22 (2020), s. 1-14 [online]. - ISSN 1996-1073 (online) Spôsob prístupu: <https://www.mdpi.com/1996-1073/13/22/5974>.
- [5]. SOBOTOVÁ, Lýdia - BADIDA, Miroslav - MORAVEC, Marek - BADIDOVÁ, Anna - MAŠLEJOVÁ, Alica: **New Findings in the Field of Thermal Drilling of Aluminum Alloys** - 2020. In: Materials. - Basel (Švajčiarsko): Molecular Diversity Preservation International Roč. 13, č. 21 (2020), s. [1-17] [online]. - ISSN 1996-1944 (online) Spôsob prístupu: <https://www.mdpi.com/1996-1944/13/21/5007>.