

PUBLIC LECTURE EVALUATION

Masaryk University

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| Faculty | Faculty of Science |
| Procedure field | Environmental Health Sciences |
| Applicant | Assoc. Prof. Roman Grabic, PhD |
| Lecture date | 9.12.2025 |
| Lecture topic | Quo Vadis, environmental analytical chemistry? Past, recent, and future challenges in analyzing organic pollutants in the environment. |
| Persons present (number) | 91 (54 on-site, 37 online) |
| Designated evaluators (board members) | Prof. Michal Holčapek, PhD (online) Prof. Gary Fones (online) Prof. Peter Haglund, PhD (online) |

Roman Grabic delivered the lecture that summarized the development of organic pollutant analysis across environmental matrices with an emphasis on mass spectrometric detection. Past challenges, stemming from the selectivity and sensitivity of targeted detection and quantification, were transformed into insufficient information delivered by multiresidue analysis, particularly regarding observed pollution effects on living organisms. Consequent progress in high-resolution mass spectrometry has resulted in complex data that are challenging to interpret. Recent and future developments in environmental analytical chemistry are closely connected with new approaches for data evaluation and prioritization, employing sophisticated software tools, computational chemistry, modelling and AI.

He also presented an overview of his scientific career in the field of environmental analysis using advanced analytical techniques, primarily based on the coupling of mass spectrometry and chromatography. The style of the presentation was appropriately chosen, even for researchers from related areas. Throughout the lecture Roman kept in good contact with the audience and he stayed on time. During the subsequent Q&A session he clearly and insightfully answered all questions. The presentation, as well as his responses to questions, highlighted his strong expertise in the field.

Conclusion

The lecture delivered by Roman Grabic, entitled “Quo Vadis, environmental analytical chemistry? Past, recent, and future challenges in analyzing organic pollutants in the environment” and delivered as part of the professor appointment procedure, **demonstrated** sufficient scholarly qualifications and pedagogical capabilities expected of applicants

participating in a professor appointment procedure in the field of Environmental Health Sciences.

The lecture took place in a hybrid form on December 9th, 2026 at the RECETOX centre. The above-mentioned members of the board attended the lecture and provided its evaluation. All designated evaluators are familiar with the text of the evaluation and agree with it.

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