



**Ceremony of awarding
the title of
Doctor Honoris Causa
To His Excellency
Professor Bogusław Buszewski**

*Prof. Jan Czochralski Kuyavian-Pomeranian Research and Development Centre in Toruń,
Nicolaus Copernicus University in Toruń*

LAUDATIO

Dear Professor Bogusław Buszewski,

Dear Professor Daniel David, the Rector of the Babeş-Bolyai University,

Dear Professor Florin Streteanu, the President of the Babeş-Bolyai University Senate,

Dear Guests,

It is a great honour for me to present this Laudatio, and to introduce you the academic achievements of Professor Bogusław Buszewski. *Slide 1*

Professor Buszewski is currently the president of the *Prof. Jan Czochralski Kuyavian-Pomeranian Research and Development Centre* in Toruń, Poland, Professor at the *Nicolaus Copernicus University* in Toruń, *Environmental Chemistry and Bioanalytics Centre for Education & Research in Separation Methods & Bioanalytics* of which he is the founder, called „BioSep”, and Vice-president of the *Council of Scientific Excellence of Polish Academy of Sciences* from Warsaw. *Slide 2*

Professor Buszewski is a scientific personality who enjoys prestige, both nationally and internationally, in the field of analytical chemistry and environmental chemistry, a personality recognized and appreciated by the academic community worldwide, with professional and managerial achievements of exception in the field (h-index 78; citations over 30.915 / these days). According to Stanford, he is in the Rankings TOP 2% of the most cited scientists in the world and one of the international promoters of Analytical Chemistry (position #34).

This distinction is based on the international prestige of Professor Buszewski proven by his contributions and scientific and managerial merits recognized and

appreciated throughout the world, as well as on the fruitful collaboration of over 25 years with our institute, especially the Analytical Chemistry Laboratory, with the Analytical Chemistry Department and BioSep Centre headed by him. It is also worth mentioning the long collaboration of our institute with Nicolaus Copernicus University in Toruń, since the time of academician Raluca Ripan, nominated Doctor Honoris Causa at this university in 1963. Today marks the 130th anniversary of her birth. *Slide 3*

Professor Bogusław Buszewski is graduated from the Faculty of Mathematics-Physics-Chemistry, Department of Chemistry, of the Maria Curie-Skłodowska University in Lublin. He followed his doctoral studies at the Faculty of Chemical Technology of the Slovak Technical University in Bratislava, obtaining in 1986 the title of doctor in chemistry, and in 1992 the title of habilitated doctor. *Slides 4–18*

In 1994, he received the academic title of professor of chemistry at the Nicolaus Copernicus University, Faculty of Chemistry, where he has been a full professor since 1999. He was an Alexander von Humboldt Foundation Fellow at the Institute of Organic Chemistry, University of Tübingen, a Tempus Fellow at the University of Ghent, and the Technical University of Eindhoven, as well as a fellow/visiting professor at renowned research centres at Kent State University, Ohio.

He was visiting professor at many universities and research institutes all around the world: England, Japan, Taiwan, South Africa, Germany, Netherlands, Ireland, Austria, France, Italy, Croatia, China, Canada, Tasmania, Romania, being involved in Socrates and Erasmus Programmes, as well as CEEPUS Network.

His significant scientific contributions are in the field of analytical chemistry, especially separation sciences, sample preparation and separation techniques, gas and liquid chromatography, spectroscopy and spectrometry, trace analysis, metabolomics, as well as the physical chemistry of surface and adsorption phenomena with deep involvements in the environmental and medicinal chemistry, developing and applying modern analytical methods of high performance.

These methods have applications in various fields, for example:

- (i) Environmental control and monitoring through the determination of inorganic and organic pollutants in biological-omics samples;
- (ii) The use and neutralization of industrial, agricultural and communal waste through biotechnological processes;
- (iii) Application of chemometric methods in environmental contamination and protection studies through the statistical interpretation of analytical data.

Currently, Professor Buszewski is concerned with research topics that also involve omics sciences, such as genomics, proteomics and metabolomics with the help of bioinformatics and state-of-the-art technologies and aim at the identification, description and quantification of biomolecules, new forms, as well as the elucidation of molecular processes that occur in the natural environment and living organisms. He is also involved in the implementation of scientific and research experiments in medical

diagnosis, cosmetics and food industry, as well as in the use of household chemical products.

The scientific merits and the acquired international prestige by Professor Bogusław Buszewski are proven by the high positions he holds in prestigious scientific societies and by the multiple awards and medals he was honoured with.

In addition to his scientific merits and international prestige, Professor Buszewski made important contributions to the development of the academic community of the Babeş-Bolyai University and “Raluca Ripan” Institute for Research in Chemistry. This collaboration has brought additional benefits and visibility to our academic community and will also bring in the future:

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- Our university was a partner unit in two CEEPUS Network projects coordinated by Professor Buszewski between 2008 and 2018 in which sixteen universities from seven countries participated. The incoming & outgoing mobilities of teachers and students have increased the visibility, collaborations and impact of our community at the international level;
- The postdoc and collaborative researcher grants awarded by Professor Buszewski were materialized with ISI publications, with our university and institute affiliation;
- The access to the recent technology infrastructure of the Analytical Chemistry Laboratory and the BioSep Research Centre in Toruń allowed familiarization with handling modern & high-performance equipment in the field of analytical chemistry;
- Professor Buszewski was member of the habilitation committee from the Faculty of Environmental Science & Engineering in 2017;
- Professor Buszewski promoted our institute internationally;
- Promotion of the Cluj branch and the Separation Sciences Section of the Romanian Chemical Society internationally by joining the Central European Group for Separation Sciences (CEGSS) in 2008 and the European Society for Separation Science (EuSSS) in 2009, as well as access to itinerant scientific events organized under their auspices.

Professor Buszewski participated with co-workers and actively supporting scientific events organised by us:

- *Transylvania Summer School in Chromatography* held in Cluj-Napoca in 2010 and 2011 organized with CEEPUS Network support;
- *Workshop organized at Cluj-Napoca*, in 2018, by Professor Buszewski and our team for future collaborations on multidisciplinary research in the field of metabolomics in urology between the Faculty of Pharmacy of the Medical University of Gdańsk, the *Interdisciplinary Centre of Modern Technologies* of Nicolaus Copernicus University, the „Iuliu Hațieganu” University of Medicine and Pharmacy, and the Centre of Applied Biotechnologies from Cluj-Napoca;
- *17th and 27th Editions of the International Symposia on Separation Sciences* were organized at Cluj-Napoca in 2011 and 2023, respectively.

Although with an overloaded schedule, Professor Buszewski always responded favorably to any request from us, offering assistance, support, and guidance. *Slide 35*

To conclude, the professional activity and career of Professor Buszewski, his outstanding scientific contributions and merits in the field of analytical chemistry, especially separation sciences, his recognized international prestige are under the auspices of excellence.

His substantial contribution to the development of external collaborations and to the increase of international visibility of the academic community of the "Raluca Ripan" Institute for Research in Chemistry show his friendly relationship with the Babeş-Bolyai University.

We thank Professor Bogusław Buszewski for the honour of accepting the distinction of Doctor Honoris Causa of the Babeş-Bolyai University!



Research Professor Virginia Coman, PhD
Scientific director of the "Raluca Ripan" Institute for Research in Chemistry
Babeş-Bolyai University