

**50 YEARS OF ATOMIC SPECTROSCOPY ON TU IN KOŠICE,
CELEBRATING HIS 60TH ANNIVERSARY:
PAST – PRESENCE AND FUTURE PERSPECTIVES**

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The lecture should give an overview about activities in atomic spectroscopy on TU in Košice during 50 years. Fundamental studies in this field of instrumental analytical chemistry are described with focus on the use of statistical methods (later chemometrics and information theory) in computerized spectrochemical evaluation. Besides classical methods of powders analysis (today = solid sampling) also solution methods were used and performed, e.g. the use of capillary or rotating disk electrodes. Very important was the international cooperation, first of all with Hungary in evaluation of photographically registered spectra, later with Germany in validation of modernized DC-arc-OES as well as ETV-ICP-OES methods in analysis of advanced ceramics. The interest was focused in last periods on solid sampling analysis of samples with environmental relevancy, there also alternative methods were evaluated and tested. Special attention was paid for problem of analytical calibration process, having their specialities in solid sampling analyses.

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