From GCxGC to LCxLC (and back)

Seminar 17th March 2020, CDE (room R-003), organized by the Toxicological Centre

11.00-11.10: **Adrian Covaci** (ToxCent-UA) - *Introduction to the event, Tox lab organization and research activities, varia*

11.10-11.50: **Tadeusz Gorecki** (University of Waterloo, ON, Canada) - *From GCxGC to LCxLC (and back)*

11.50-12.20: **Open discussion**

Prof. **Tadeusz Górecki** is best known though for his **improvements to two-dimensional gas chromatography**, a much more selective, two-step version of gas chromatography that allows researchers to fully resolve analyte peaks in complex environmental and biological samples.

Recent developments in his research include the **development of several new modulators for comprehensive two-dimensional gas chromatography (GC×GC)**, studies on the **fundamental aspects of GC×GC**, development of efficient methods for **comprehensive two-dimensional high-performance liquid chromatography (HPLC)**, a **passive sampling method** that allows sampler calibration to be carried out based on the physico-chemical properties of the analytes, and **extraction methods for volatile organic compounds (VOCs)** in low-permeability matrices that dramatically reduce the extraction time.

Tadeusz Górecki is the recipient of the 2016 Andrzej Waksmundzki Medal awarded by the Committee on Analytical Chemistry of the Polish Academy of Sciences, and the 2017 GCxGC Scientific Achievement Award at the 41st International Symposium on Capillary Chromatography & the 14th GCxGC Symposium (Fort Worth, TX). His papers have been cited nearly 7000 times.

Source: https://uwaterloo.ca/chemistry/people-profiles/tadeusz-gorecki