



FINALIST

Marianna Kele received the Ph.D. degree from the University of Tennessee, Knoxville, TN, in 2001. Since then, Dr. Kele has been employed as a research scientist with Waters Associates, Milford, MA. Here, she has been associated with the development of the new technique of Ultra High Pressure Liquid Chromatography (UPLC), and in bringing the new instrumentation to market. She also has been closely involved with the development of manufacturing procedures necessary to produce sub 2 μm chromatographic particles. Prior to this, she was with the Danube Oil Refinery, Szazhalombatta, Hungary from 1985 to 1987, where she supervised quality control in the Gas Chromatography-Method Development Laboratory and developed and set up new separation methods according to the corresponding International Standards.

More recently her research has focused on studying in-depth the consequences of the operation of small particle columns at high pressures. She gave a presentation at the 7th Balaton Symposium on High Performance Separation Methods in Siofok, Hungary, where she discussed her work in sophisticated computer modeling of the heat generated by frictional flow in the column, and its dissipation through parts of the system (such as the column end fittings).

She has authored or co-authored 22 peer-reviewed papers and has given numerous invited presentations.