

Dr. Gyula Záray

Date of Birth: 23rd August, 1946

Place of Birth: Bánhida/HUNGARY

Femineity: Male

Nationality: Hungarian

Foreign Languages: German

English

Present Occupation: Prof. of Chemistry, Eötvös University

President of Research Centre of Environmental Sciences

Head of Hungarian Satellite Centre of Trace Element Institute for

UNESCO

Education:

1970 M.Sc., Eötvös University, Budapest

1973 Dr. Univ., Eötvös University, Budapest

1980 C.Sc., Hungarian Academy of Sciences, Budapest

1980 Ph.D., Eötvös University, Budapest

1990 Assoc. Prof., Eötvös University, Budapest

1995 D.Sc., Hungarian Academy of Sciences, Budapest

1995. Full professor, Eötvös University, Budapest

Teaching experience

1990 – 1996 Instrumental Analytical Chemistry

1996 – 2004 Environmental Chemistry, Plasma spectroscopy

2004 – Instrumental Analytical Chemistry, Plasma spectroscopy, Environmental Analysis

2 Ph.D. courses in topic of ICP spectrometry and Environmental Analytical Chemistry.

Postdoctoral research fellowships:

1978 MTA fellowship at the “Institut für Spektrochemie und Angewandte Spektroskopie”, Dortmund

1979: ISS fellowship, Istituto Superiore di Sanità, Rome

1981: ISS fellowship, Istituto Superiore di Sanità, Rome

1983: ISS fellowship, Istituto Superiore di Sanità, Rome

1985-1986: Humboldt fellowship, “Institut für Spektrochemie und Angewandte Spektroskopie”, Dortmund

1992: Humboldt fellowship, “Institut für Spektrochemie und Angewandte Spektroskopie”, Dortmund

2004: Japanese Fellowship, Institute of Energy Research, Sapporo

Research interest

Development of solid sampling ICP-AES methods for analytical investigation of high-purity metals, special alloys and ceramics

Uptake, accumulation and translocation processes of heavy metals in plants

Chemical characterization of urban aerosols

Heavy metal biomonitoring by freshwater biofilms, algae and mussels. Microanalytical study of these metal collectors by total reflection X-ray fluorescence spectrometry

Speciation of toxic elements applying HPLC-ICP-MS methods.

Determination of pharmaceutical residues in waste- and surface waters

Development of advanced oxidation technologies for removal of organic micropollutants from water

Publications: 258 publications in scientific journals, 2 books and 7 book chapters, 2004 independent citations.