CURRICULUM VITAE

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EDUCATION:

Eötvös Lóránt University of Sciences, Budapest, Hungary:

Ph.D.	Plasma Physics	- 1996
Dr. rer. nat. univ.	Plasma Physics	- 1980
M.S.	Nuclear Physics	- 1977
B.A.	Physics	- 1977

RESEARCH EXPERIENCE:

1997 – Present - KFKI RIPNP, Association EURATOM - senior research scientist:

- Conceptual design and testing of the optics for the basic video diagnostics at the W7-X stellarator (Greifswald, Germany).
- Design and installation of the optics for the fast visible observation on the KL8 endoscope at JET (Culham, England). This observation system is used – among other purposes – for investigation of pellet - plasma interaction
- Li beam diagnostics is used to measure the density profile and density fluctuations in the plasma edge. I took part in the development of a beam hopping system at the W7-AS stellarator (Garching, Germany) which enables a quasi 2D (in a poloidal plane) measurement using the same observation system. This concept was further developed at the upgrade of the 35keV Li beam diagnostics at the TEXTOR tokamak (Jülich, Germany). In this project I was responsible for the reinstallation and upgrade of the Li beam injector and the conceptual design and installation of the optics of the new observation system which has a slow arm (CCD camera – density measurement) and a fast arm (APD camera – fluctuation measurement). I work mainly on the calibration of the system and on the evaluation of the CCD measurement.
- Design, installation, calibration and data analysis of Al micro-pellet experiments on the MT-1M tokamak.

10/1995 - 12/1997 - Max-Plank-Institut für Plasmaphysik, Garching bei München, Germany – altogether 14 months of freelance collaboration:

Design, installation and calibration of optical systems for the Li Beam diagnostics on the ASDEX-Upgrade tokamak (Garching).

10/1992 - 12/1993 - Princeton Plasma Physics Laboratory, Princeton, NJ, U.S.A. (IAEA / NRC Fellowship):

Design, installation, calibration and data analysis of hard X-ray detectors for Lower Hybrid Current Drive experiments on the PBX-M tokamak (Princeton).

1982 – 1996 - KFKI RIPNP - research scientist:

Design, installation, calibration and data analysis of various diagnostics on the MT-1 (later MT-1M) tokamak (Budapest). I worked with a Neutral Particle Analyzer, Erosion and Collection Probes, Langmuir Probes, a Soft X-ray Camera and Spectrometers in the visible and VUV range. I run the diagnostic for plasma edge density measurement using laser blow-off Li beam and I took part in Al micro--pellet experiments on the MT-1M tokamak. My work also included design and maintenance of electronic and vacuum equipments.

1977 – 1981 - KFKI RIPNP - Postgraduate student:

Thesis research concentrated on the analysis of charge exchange neutrals generated in tokamak plasmas. The experiments were carried out on the TUMAN-3 tokamak (IOFFE Institute, St. Petersburg).

1974 – 1977 - KFKI RIPNP - Assistant, Graduate student:

Research focused on the determination of prompt neutron spectrum from thermal neutron induced fission of ^{235}U.

LANGUAGES: English, German and Russian; mother tongue: Hungarian

OUTSIDE INTERESTS: Bridge, soccer, sailing