

# Curriculum Vitae of Sándor Zoletnik

September, 2012

**Name:** Sándor ZOLETNIK

## Personal data:

Born on 24<sup>th</sup> July, 1960 in Budapest, Hungary. Married since 1985, two children (1986 and 1988). Hungarian citizen.

## Education:

Studied physics at Roland Eötvös University, Budapest, Hungary. Graduated in 1984. Ph.D. in Plasma Physics in 1987 at Roland Eötvös Univ., Budapest, title of thesis: "Investigation of disruptions in the MT-1 tokamak". "Candidate of Science" degree at the Hungarian Academy of Sciences in 1993, title of thesis: "Investigation of X-ray radiation distribution on the MT-1M tokamak using tomographical method".

## Scientific activities:

Field of interest is experimental fusion plasma physics, especially plasma turbulence, diagnostics, numerical data analysis. Experimental work done at:

- 1 MT-1M tokamak, Budapest, Hungary (study of disruptive instabilities, X-ray diagnostics, magnetic diagnostics, optical diagnostics, laser ablation, micropellet injection and ablation, data acquisition systems design and implementation)
- 2 Wendelstein 7-AS stellarator, Garching, Germany (Lithium-beam diagnostic, X-ray tomography, micro-pellet injection, CO2 laser scattering, video camera diagnostics)
- 3 TEXTOR tokamak, Jülich, Germany (micro-pellet injection, Lithium-beam diagnostics, plasma turbulence and zonal flow measurements)
- 4 JET tokamak, Culham, UK (Project leader of lithium beam diagnostic upgrade in EP1 and EP2)
- 5 CASTOR tokamak Prague, Czech Rep. (turbulence and zonal flow measurements, SUMTRAIC summer school)
- 6 MAST tokamak, Culham, UK. (Beam Emission Spectroscopy for core turbulence measurement on MAST.)
- 7 Wendelstein 7-X stellarator (under construction). (Intelligent video diagnostic development.)
- 8 KSTAR tokamak, Daejeon, Dél-Korea. (Beam Emission Spectroscopy diagnostic development and measurements.)
- 9 EAST tokamak, Hefei, China. (Li-beam diagnostic development, ongoing)

## Permanent affiliation:

Wigner Research Centre for Physics  
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**Affiliations and positions:**

- 1 2006-2010 : KFKI RMKI, Budapest, Head of the Department of Plasma Physics
- 2 2005-2012 : Leader of NUKENERG Consortium (4 research institutions for nuclear research)
- 3 2000- : KFKI RMKI, Budapest, EURATOM Association, Head of Association
- 4 1994-2000: Institut für Plasmaphysik, Garching, Germany, Guest scientist (altogether about 3 years in several periods)
- 5 1993-1999: KFKI RMKI, Budapest, Senior research fellow
- 6 1987-1993: KFKI RMKI, Budapest, Hungary, Research Fellow
- 7 1984-1987: KFKI RMKI, Budapest, Hungary, Ph.D. student

**Professional memberships:**

1. 2010- European expert in the EU-Korea Fusion Consultative Committee.
2. 2008- One of the European representatives in the Diagnostics Topical Group of the International Tokamak Physics Activities (ITPA)
3. 2008- Vice chairman of EURATOM Science and Technology Advisory Committee (STAC)
4. 2008- Member of MAST Programme Advisory Committee, Culham, UK
5. 2007- Member of International Board of Advisors of the Institute of Plasma Physics, Prague, Czech Republic.
6. 2007- 2010, 2011- Member of the Governing Board of Fusion for Energy, Barcelona, Spain
7. 2006- Member of EURATOM Scientific and Technical Committee (STC)
8. 2006-2009: Member of ASDEX Upgrade Programme Committee, Garching, Germany
9. 2005- Member of the Editorial Board of Plasma Physics and Controlled Fusion, IOP, UK
10. 2005- European Physical Society, individual member
11. 2000-2008: Member of EFDA Steering Committee
12. 2000-2006: Member of EURATOM Fusion Physics Committee (FPC)
13. 1987- Member of the Roland Eötvös Physical Society

**Foreign languages:** Hungarian: native, English: good, German: reasonable