巨匠^{レジェンド}、炉物理を語る
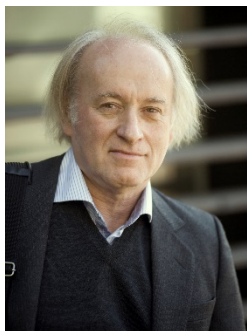
本稿は、若手世代への技術伝承を兼ねて、世界の炉物理界のレジェンドに炉物理の面白さを語って頂こうという試みである。第 2 回は、日本通でもあるスウェーデンのチャルマース工科大学の Imre Pázsit 教授である。

Dr. Imre Pázsit, Professor of Chalmers University of Technology, Sweden

Dr. Imre Pázsit is full professor at the Department of Physics, Division of Subatomic and Plasma Physics, Nuclear Engineering Group, at Chalmers University of Technology, Göteborg, Sweden. His research interests are transport theory of neutral and charged particles; fluctuations in neutron transport and atomic collision cascades; theory of multiplicity in nuclear safeguards; reactor diagnostics based on noise analysis including diagnostics of two-phase flow; elaboration of inverse methods in neutron noise diagnostics; intelligent computing methods such as artificial neural networks and wavelet analysis, and, recently, fractional kinetics and fractional diffusion processes.

Prof. Pázsit has published over 210 articles in international journals. Together with L. Pál, he authored the book "Neutron Fluctuations – a Treatise on the Theory of Branching Processes", Elsevier (2008). Together with Nhu-Tarnawska Hoa Kim-Ngan, he authored a popular science book with the title "The Discovery of nuclear fission – women scientists in highlight", which was published in English, Swedish, and Japanese. He is also author of 6 book chapters, and numerous reports and conference proceedings.

Prof. Pázsit is a Fellow of the American Nuclear Society, a Member of the Royal Swedish Academy of Engineering Sciences, and a member of the Royal Society of Arts and Sciences in Gothenburg. He is adjunct professor at the Department of Nuclear Engineering and Radiological Sciences of the University of Michigan, and also Executive Editor of the Elsevier journal "Annals of Nuclear Energy". He is recipient of the "Order of the Rising Sun, Gold Rays with Neck Ribbon" from the Government of Japan (2016), and the fourth recipient of the Leo Szilard Medal of the Hungarian Nuclear Society (2016).