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### **1. MSc degree**

Engineer from “l’Ecole des Hautes Etudes d’Ingénieur (HEI)”, Lille, France, 1996.

### **2. PhD degree**

Ph.D. in reactor physics, Chalmers University of Technology, Gothenburg, Sweden, 2002, “Development of a noise-based method for the determination of the Moderator Temperature Coefficient of reactivity (MTC) in Pressurized Water Reactors (PWRs)”, Supervisor Prof. Imre Pázsit.

### **3. Postdoctoral work/visits**

Technical University of Delft, Delft, the Netherlands, 2005 (2 months).

### **4. Qualification as Associate Professor (Docent)**

Docent, Nuclear Engineering, Chalmers University of Technology, 2006.

### **5. Current position**

2011 – Professor, Chalmers University of Technology  
Time for research: 60%.

### **6. Previous positions**

2004 – 2011 University Lecturer, Chalmers University of Technology.  
2003 – 2004 Substitute University Lecturer, Chalmers University of Technology.  
2003 Research Associate, Chalmers University of Technology.  
1999 – 2002 PhD student, Chalmers University of Technology.  
1998 – 1999 Research Engineer, Chalmers University of Technology.  
1997 Research Engineer, French Atomic Commission (CEA), France.

### **7. Research specialization**

Reactor physics.  
Neutron transport.  
Coupled neutronics/thermal-hydraulics.  
Neutron noise and reactor kinetics.  
Thermal-hydraulics.  
Signal processing and analysis.  
Uncertainty and sensitivity analysis.

### **8. Supervision activities**

Supervised more than 30 BSc/MSc/PhD students.

## 9. Other qualifications

Research in multi-physics chosen to be presented by the Royal Swedish Academy of Engineering Sciences (IVA) in the “Framsteg inom Forskning och Teknik 2011”.

2006 award from the Gunnar Engström ABB Foundation for successful research into reactor diagnostics and safety analysis of nuclear power reactors.

2004 Sigvard Eklund prize for the best PhD thesis from SKC (Svenskt Kärntekniskt Centrum – Swedish Centre for Nuclear Technology).

Best Student Paper from the ANS (American Nuclear Society), Mathematics and Computation Division at the *Int. Mtg. Mathematical Methods for Nuclear Applications (M&C2001)*, Salt Lake City, Utah, USA, September 9-13, 2001.

Member of the ANS (American Nuclear Society): Reactor Physics Division, Mathematics & Computation Division, Thermal-hydraulics Division, Training Division.

Referee for the following journals: Nuclear Science and Engineering, Nuclear Technology, Annals of Nuclear Energy, Progress in Nuclear Energy, Nuclear Engineering and Design, Energy Conversion and Management, Computer Physics Communication. Referee for 5 past international conferences.

Director of the Graduate School in Nuclear Engineering, Chalmers University of Technology.

Past director of the Sustainable Nuclear Energy Centre (SNEC), Chalmers University of Technology.

Leader of the DREAM task force at Chalmers (Deterministic REactor Modelling).

Acted as an opponent in 2 PhD dissertations and as a member of the examination committee in 5 PhD dissertations in Sweden and 3 abroad.

Lecturer and course developer at the Workshop on Neutron Fluctuations, Reactor Noise, and their Applications in Nuclear Reactors, ICTP (International Centre for Theoretical Physics), Trieste, Italy, September 22-26, 2008.

Lecturer and course developer of the courses “Physics of Nuclear Reactors” (MSc course) and “Modelling of Nuclear Reactors” (MSc/PhD course) at Chalmers University of Technology.