



## Curriculum Vitae

August 1, 2006

### PERSONAL DETAILS:

Given name: **GUNTARS**  
Family name: **ZVEJNIEKS**

Address: Kengaraga 8, Riga LV-1063, Latvia  
e-mail: [guntars@latnet.lv](mailto:guntars@latnet.lv)  
tel.: +371 7187480  
fax: +371 7132778

Date of birth: November 14, 1971 Riga, Latvia  
Marital status: Married, 1 child

**Education:**

- 1/ 1999-2001, Dr. rer. nat., University of Osnabrück, (Dept. of Physics), Germany
- 2/ 1994-1996, MS University of Latvia, Faculty of Physics and Mathematics (Dept. of Theoretical Physics)
- 3/ 1990-1994, BS University of Latvia, Faculty of Physics and Mathematics (Dept. of Theoretical Physics)

**Employment:**

- 1/ 1994-1996 Engineer at the Microelectronics Center of Latvian Academy of Sciences, 19 Turgeneva str., Riga LV-1586, Latvia
- 2/ 1996-2003: Engineer at the Institute of Solid State Physics, University of Latvia, 8 Kengaraga str., Riga LV-1063, Latvia,
- 3/ 2003- 2006: Researcher at the Institute of Solid State Physics, University of Latvia, 8 Kengaraga str., Riga LV-1063, Latvia.
- 4/ 2006- to date: Leading researcher at the Institute of Solid State Physics, University of Latvia, 8 Kengaraga str., Riga LV-1063, Latvia.

### Professional experience:

1995 (2 month) Visiting scientist, Rostock University (Germany)  
1996 (1 month) Visiting scientist, Rostock University (Germany)  
1998/9 (6 month) Visiting scientist, NORDITA (Denmark)

2002 (1 month)	Visiting scientist, EPFL (Ecole Polytechnique Federale de Lausanne, Switzerland)
2002 (1 month)	Visiting scientist, Schuit Institute of Catalysis, Eindhoven University of Technology (The Netherlands)
2003 (2 month)	Visiting scientist, MPI-Plasmaphysik, Garching (Germany)
2003 (1 month)	Visiting scientist, HUT, Espoo/Helsinki (Finland)
2004 (1 month)	Visiting scientist, JET-EFDA/CSU (UK)
2005 (1 month)	Visiting scientist, MPI-Plasmaphysik, Garching (Germany)
2005 (2 month)	Visiting scientist, Semiconductor Physics Institute, Vilnius (Lithuania)
2006 (2 month)	Visiting scientist, Semiconductor Physics Institute, Vilnius (Lithuania)

**Selected publications:** (total: 15 referred and 3 conference papers)

- 1) G. Zvejniaks and V. N. Kuzovkov, Monte Carlo simulations of the periodically forced autocatalytic  $A+B \rightarrow 2B$  reaction, Phys.Rev. E, 2000, **61**, p. 4593-4598.
- 2) G. Zvejniaks and V.N. Kuzovkov, Monte-Carlo simulations for Lotka-type model with reactant surface diffusion and interactions, Phys.Rev. E, 2001, **63**, 051104 (p. 1-10).
- 3) V.N. Kuzovkov and G. Zvejniaks, Reply to "Comment on 'Monte Carlo simulations for a Lotka-type model with reactant surface diffusion and interactions'", Phys.Rev. E, 2002, **65**, 033102 (p. 1-4).
- 4) G. Zvejniaks and V.N. Kuzovkov, The model of catalytic  $A+B \rightarrow 0$  reaction with surface reconstruction, Phys.Rev. E, **66**, 2002, 021109 (p. 1-9).
- 5) G. Zvejniaks, V.N. Kuzovkov, O. Dumbrajs, A.W. Degeling, W. Suttrop, H. Urano, and H. Zohm, Autoregressive moving average model for analyzing edge localized mode time series on Axially Symmetric Divertor Experiment (ASDEX) Upgrade tokamak - Phys. Plasmas, 2004, **11**, p. 5658-5667
- 6) E.E. Tornau, V. Petrauskas, G. Zvejniaks, Surface phase transitions at O and CO catalytic reaction on Pd(111) – Catalysis Today 2006, **116**, p. 62-68.

**Languages:** Latvian (native), English, Russian and German