

## CURRICULUM VITAE

**Name:** Igor Zorić  
**Born:** October 17, 1946, Split, Croatia  
**Civil Status:** Married, 3 children  
**Citizenship:** Swedish  
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### **Degrees and employment:**

**1. Current position:** Professor, Dept. Applied Physics, Chalmers University of Technology.

**2. Docent** in Physics, Göteborg University, 1992.

**3. Doctoral degree**

PhD in Physics, Department of Physics and Astronomy, University of Rochester, 1976, Supervisor Prof. R. D. Parks.

**4. M. A degree**

University of Rochester, Rochester, NY, USA, 1975.

**5. Previous positions and periods of employments**

2010 – today, professor, 2009-2010 bitr. professor Chalmers, 2005-2008, lecturer, Chalmers, 1993 - 2005; lecturer, University of Göteborg, 1982-93 researcher, research assistant (gästforskare, forskarassistent) at CTH, 1977-1982 research assistant University of Zagreb, 1972-1978 graduate student, University of Rochester, USA.

**Thesis advising experience**

**PhD thesis-main thesis advisor**

Claes Åkerlund: Thesis title: *Molecular beam studies of collision induced reactions on Pt(111)*, Department of Applied Physics, University of Göteborg, graduated June 03 1997.

Dogan Oner: Initial Oxidation kinetics of Al(111); A Monte Carlo Study, (graduated March 20, 2003).

C. Langhammar: Thesis title: *Nanoparticle plasmons: basic physics and applications in materials science*. Department of Applied Physics, Chalmers. (graduated June 04, 2009).

Marcus Schwind: Thesis title: *Phase transitions in metallic nanoparticles studied by nanoplasmonic sensing* (expected to graduate in May 2012).

Carl Axelsson Wadell: New graduate student, started on April 10, 2010. Thesis topic: *Hydrogen storage in metallic nanoparticles*; size dependent energetics and kinetics.

**Licenciate students -main thesis advisor**

Claes Åkerlund: Thesis title: *Collision induced molecular processes on surfaces*, Dept. of Applied Physics, Göteborg University, 1996.

Håkan Ternow: Thesis title: *Dissociation of small molecules on Al(111); the early stage and beyond*, Dept. of Applied Physics, GU, March 2003.

Dogan Oner: Thesis title: *Kinetics of initial stages of Al(111) oxidation; A Monte Carlo approach*, Department of Applied Physics, Chalmers University of Technology (graduated May 2000).

Håkan Rapp: Friction drag studies on microfabricated surface structures, Chalmers University of Technology, Göteborg , September 2004.

Christoph Langhammer : LSPR in Pd and Pt supported nanoparticles, Dept. of Applied Physics, Chalmers, January 2007.

Marcus Schwind: Kinetic Measurements Using Nanoplasmonic Sensing, March 2010, Department of Applied Physics, Chalmers.

### **Entrepreneurial Experience**

Co-founder the spin-off company Insplorion AB (org. number 556798-8760).

### **International and national collaboration:**

Mario Rocca's group at University of Genova, Italy on collision induced processes on surfaces (joint publication).

Andrew Kummel's group at Dept. of Chemistry and Biochemistry, University of California at San Diego, USA on dynamics of NO and O<sub>2</sub> dissociation on Al(111) (joint publication).

M. Alducin and A. Arnau, Universitas del Pais Vasco, Bilbao, Spain on dielectric response of thin oxide layers (joint publication).

A.Kleyn's group at University of Leiden, Netherlands (joint publication).

Bruce Clemens group at Stanford University on hydrogen storage in metals (joint publication).

Theory group at Chalmers (resulted in several joint publications in the field of surface dynamics).

Shiwu Gao's group at Göteborg University (joint publication on Pd and Pt dielectric response and optical properties).

Anders Hellman at Competence Center for Catalysis, Chalmers (several joint publications).

Mikael Käll's group at Chalmers (joint publication).

Peter Apell's group at Chalmers (joint publications).

### **Total Scientific production**

61 articles published in internationally refereed journals,

59 talks at international conferences,

3 review articles,

1 book chapters,

15 invited talks at international conferences,

1 published book,

4 patent applications.