C U R R I C U L U M V I T A E

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Personal

Born 8. october 1955, Næstved. Danish citizen.

Education

1982	Cand. scient. (Mathematics), University of Copenhagen. Thesis: *"Time Evolution and Path Integrals in Schrödinger Quantum Mechanics"*.
1983	Master of Science, University of California, San Diego (UCSD).
1988	Ph.D. (mathematical physics). Thesis: *"A Many Particle Adiabatic Invariant of Strongly Magnetized Pure Electron Plasmas"*. UCSD.

Employments

1979 – 81	Teaching Assistant at Department of Mathematics, University of Copenhagen
1983 - 88	Research Assistant at Department of Physics, UCSD.
1988 - 89	Post-Doc at Institute of NonLinear Science (INLS), UCSD.
1990 – 94	Assistant Professor at Department of Mathematics, DTU.
1994 -	Associate Professor at Department of Mathematics, DTU.
2004	Visiting Professor at the Maersk McKinney Møller Institute for Production Technology, University of Southern Denmark (SDU).

Research Interests

Applied Mathematics, Dynamical Systems, Classical Mechanics, Control Theory.

Recent Activities

Supervisor for DTU ph.d. student Marie Bro and co-supervisor for ph.d. student Torben Amby (Siemens/SDU)
Supervisor for DTU Master students: Jacob Hersbøll.

Invited consultant to the 2006 Chinese Study Group, Hong Kong, December 2006. Speaker and Session Chair at the SIAM Applications of Dynamical Systems meeting, June 2007. Invited minisymposium speaker at ICIAM, July 2007.

Co-organisor of the 61st European Study Group with Industry (ESGI) at SDU-Sønderborg, August 2007. Editor for Math. Industry Case Studies (MICS). Referee for Journal of Physics (Mathematical and Theoretical). Study Coordinator for University of Copenhagen University Extension (Folkeuniversitetet).
Secretary of the Danish Mathematical Society.

Selected Publications

1. *Hyperbolic Spaces are of Strictly Negative Type* (with S.L.Kokkendorff and S. Markvorsen), Proceedings of the American Mathematical Society **130**, 175, (2002).

2. *Construction of the Simplest Model to Explain Complex Receptor Activation Kinetics* (with R. Bywater and P. Røgen), Journal of Theoretical Biology **215**, (2002).

3. *Protein Evolution*, with J. Chapman, J. Gravesen, R. Ketzsher, A. Lacey, G.Richardson, N. Stringfellow, to appear in *ESGI 40, Final Report* (2002).

4. *Stability of a Heavy Rigid Body Sinking in an Ideal Fluid* with M. Deriabyn, ZAMP **54**, 1 (2003).

5. *High Dimensional Bowling*, with M. Deriabyn, Regular and Chaotic Dynamics **8**, 319, (2003).

6. *De Novo Generation of Molecular Structures using Optimization to Selcet Graphs on a Given Lattice*, with R. Bywater, P. Røgen, T. Poulsen, J. Chem. Information, and Computer Science **44** (3) 856, (2004).

7. *Experiences in Evaluating Outcome in Tool Based Competence Building Education in Dynamical Systems using Symbolic Computer Algebra,* (with J. Perram and M. Andersen), Int. J. Technology in Mathematics Education **11**, 139, (2005).

8. *Beneath the Wheel*, Report for the 54th European Study Group with Industry, University of Southern Denmark (2005).

9. *Intelligent Design (In Danish)* Aktuel Naturvidenskab **5**, 30, (2005).

10. DSTL *Aggregation Problem*, Report for the 56th European Study Group with Industry, University of Bath (2006).

11. *Distance of Sample Measurement Points to Prototype Catalog Curve* Journal of Physics: Conference Series, **52** (Eds. R. Melnik and F. Voss: Mathematics for Industry in Denmark), (2006).

12. *Industrien Udfordrer Matematikernen (In Danish)* Aktuel Naturvidenskab **1**, 20, (2007).

Books:

1. *Elements of Newtonian Mechanics* (with J.M. Knudsen), Springer Verlag , 3. ed., 2nd printing, 2002

2. *Dynamics on The Riemann Sphere* (with C. Lunde Petersen, editors). Proceedings of The Bodilfest, European Mathematical Society Publishing (2006).