MAX-PLANCK-INSTITUT FÜR PHYSIK KOMPLEXER SYSTEME

International seminar on

Small Scale Dynamics of Physico-Chemical Processes at Interfaces

Dresden, Germany • June 22 - July 10, 1998

Scientific coordinators:

Markus Bär
(MPIPKS Dresden, Germany)

Ioannis G. Kevrekidis
(Princeton University, USA)

André Thess
(TU Dresden, Germany)

Max-Planck-Institut für Physik komplexer Systeme
Nöthnitzer Str. 38, D–01187 Dresden, Germany
Tel: +49-351-871-2105, Fax: +49-351-871-2199
conference e-mail: `ssd@mpipks-dresden.mpg.de`
`http://www.mpipks-dresden.mpg.de/~ssd/index.html`

Seminars

June 23rd

11:00 – 12:00	Pierre Colinet, Universite Libre de Bruxelles Oscillatory convection patterns in Rayleigh-Marangoni instabilities
15:30 – 16:30	John C. Earnshaw, University of Belfast Two-dimensional colloidal aggregation and self organization, Part I

June 25th

11:00 – 12:00	John M. W. Bush, MIT Bubble motion in a thin gap: A mechanically forced Marangoni flow
15:30 – 16:30	John C. Earnshaw, University of Belfast Two-dimensional colloidal aggregation and self organization, Part II

June 29th

14:00 – 15:00	Lutz Schimansky-Geier, Humboldt-Universität Berlin Brownian particles in active media

June 30th

10:00 – 11:00	Markus Eiswirth, Fritz-Haber-Institut Berlin Remote triggering of waves in electrochemical systems

July 1st

11:00 – 12:00	Arnd Scheel, Freie Universität Berlin Dynamics of spiral waves: Existence, instabilities and bifurcation
14:00 – 15:00	Ioannis Kevrekidis, Princeton University Model reduction for dynamics of partial differential equations

Seminars

July 2nd

11:00 – 12:00	Alexander von Oertzen, Fritz-Haber-Institut Berlin Pattern formation of the CO/O/Pt(110) reaction with subsurface oxygen: Traveling objects, collisions, and standing waves
13:30 – 14:30	Jochen Friedrich, Universität Erlangen Heat- and mass transfer influenced by rotating magnetic fields during crystal growth: Experimental and numerical results
15:30 – 16:30	John C. Earnshaw, University of Belfast Two-dimensional colloidal aggregation and self organization, Part III

July 7th

13:30 – 14:30	Ramiro Rico-Martinez, Celaya, Mexico Neural networks for data driven identification of nonlinear systems

July 8th

16:00 – 17:00	Ioannis Kevrekidis, Princeton University Model reduction for control in extended systems

July 10th

11:00 – 12:00	Franz-Josef Niedernostheide, Siemens AG München Self-organisation in semi-conductor devices