

LIST OF SPEAKERS

Nanowires

Cees Dekker (Delft)

Silvano De Franceschi (Delft):

Electron spins in semiconductor quantum dot structures

Paul McEuen (Cornell):

Nanoelectronics: Carbon Nanotubes and Single Molecules

Ross Rinaldi (Lecce)

Nano-bio electronic devices based on DNA bases and metalloproteins

Lars Samuelsson (Lund):

Semiconductor nanowires - novel materials and device opportunities

Ulrich Zulicke (Karlsruhe):

Spintronics with semiconductor nanowires

Molecular Self Assembly

Siegfried Engelbrecht-Vandre (Osnabrück)

ATP Synthase - a molecular machine

Bianca Hermann (Basel)

Self-Assembled and Self-Ordered Monolayers of Large Molecules on surfaces Investigated with STM

Christof Niemeyer (Univ. Dortmund):

Semisynthetic DNA-Protein Conjugates: Novel Tools in Life-Sciences and Nanobiotechnology

N.C. Seeman (NYU):

Structural DNA Nanotechnology

Organic-Inorganic Interfaces

Peter Fromherz (MPI Biochemie, München):

Interfacing Ion Channels and Electron Channels

Roland Netz (CeNS):

Static and Dynamic Aspects of Charged Surfaces

Uri Sivan (Haifa):

Molecular Electronics - the Gap between Devices and Circuits plus Some Lessons from Biology

Hans Hennig von Grünberg:

Many-body interactions and correlations in colloidal suspensions

Optical Methods for Life Science

Ulf Diederichsen (Göttingen)

Molecular architecture with biooligomers

Steven Quake (Caltech)

Gerhard Schütz (Universität Linz):

Ultra-sensitive Microscopy to image molecular processes in living cells

Petra Schwille (Dresden):

Confocal detection and beyond: On the look-out for single molecules

Stefan Thalhammer (CeNS):

Atomic force microscopy and laser microdissection as tools for life sciences

Functions of Nanoscale Cell Components

Marileen Dogterom (AMOLF):

Force generation by single microtubules

Julio Fernandez (Mayo Clinics):

Protein mechanics: a new paradigm for understanding protein function

Jens Michaelis (Howard Hughes Medical Institute):

Viral DNA packaging - Single molecule studies of a unique molecular motor

Viola Vogel (Washington):

Mechano-Chemical Sensing