

**Plenar- und Keynotevorträge, FV-übergreifende Symposien
Berlin 2012**

Montag, 26.03.2012

8:30 -- 9:15 Plenary Talk

Stanislas Leibler (BP)

Laboratory of Living Matter, The Rockefeller University

"Survival in the face of the unknown: some lessons from bacteria"

14:00 -- 14:45 Keynote and Prize Talks

H. Eugene Stanley (SOE), Boston University

"The fragility of interdependency: Coupled networks & switching phenomena"

17:00 – 18:00 Uhr, Max von Laue-Vortrag

Naomi Oreskes (UC San Diego)

„The scientific consensus on climate change: Where do we go from here?“

Dieter Richter (CPP), Institut für Festkörperforschung, Forschungszentrum Jülich

"Soft Matter and Life Sciences: Research with Neutrons"

Hertha-Sponer-Preis:

Katharina Franke , Experimentelle Nanophysik, FU Berlin

"Elementary excitations in single molecules on surfaces"

Dienstag, 27. 3. 2012

8:30 -- 9:15 Plenary Talk

Yoshihisa Yamamoto (HL) , Stanford University, USA and National Institute of Informatics, Japan

Dynamical condensation of exciton-polaritons

13:15 – 14:45 Keynote and Prize Talks

Karsten Buse (DF), Fraunhofer-Institut für Physikalische Messtechnik IPM, Freiburg

Terahertz Science and Technology: Key Innovations and Driving Applications

Ulrike Diebold (O) , Angewandte Physik, TU Wien

"Scanning Tunneling Microscopy of Defects, Adsorbates and Nanostructures at Oxide Surfaces"

Stern-Gerlach-Medaille:

Rainer Blatt, Universität Innsbruck und Österreichische Akademie der Wissenschaften

"The quantum way of doing computations"

Max-Planck-Medaille:

Martin Zirnbauer, Universität zu Köln

"Of symmetries, symmetry classes, and symmetric spaces: from disorder and quantum chaos to topological insulators"

Festsitzungsvortrag

Martin Wegener , Karlsruhe Institute of Technology

"Metamaterials and Transformation Optics"

Mittwoch, 28. 3. 2012

8:30 -- 9:15 Plenary Talk

David DiVincenzo (MA/TT), RWTH Aachen and FZ Jülich
"Concepts in Quantum Computation"

13:15 -- 14:45 Keynote and Prize Talks

Ivan K. Schuller (MA) , UC San Diego
"A Comprehensive Study of Exchange Bias: Towards a universal explanation"

Dierk Raabe (MM) , Max-Planck-Inst. für Eisenforschung, Düsseldorf

"Nanostructuring of 1 Million tons: Designing ultrastrong and ductile steels"

Martin Heimann (UP), MPI for Biogeochemistry, Jena

„Der globale Kohlenstoffkreislauf im Klimasystem: Wie weit lässt er sich steuern?"

"The global carbon cycle in the climate system: to which extent is it manageable?"

Walter-Schottky-Preis

Alex Greilich, TU Dortmund

"Optical approach to spin qubits"

20:00 -- 21:00 Öffentlicher Abendvortrag, Urania

Joachim Peinke, Univ. Oldenburg

Windenergie - eine turbulente Sache"

Donnerstag, 29. 3. 2012

8:30 -- 9:15 Plenary Talk

Michael Ghil (DY), ENS Paris and UC Los Angeles

The Complex Physics of Climate Change: Nonlinearity and Stochasticity

13:15 -- 14:45 Keynote and Prize Talks

Karin Jacobs (CCP/BP), Universität des Saarlandes

"How superficial is adhesion? Common fundamentals of gecko, bacteria, protein and thin film adhesion"

Jörg Wrachtrup (TT), Uni Stuttgart

"Diamond quantum spintronics"

Gentner-Kastler-Preis

Jean-François Joanny, ULP Strasbourg

"Mechanics and Growth of Tissues"

Georg-Simon-Ohm-Preis

Christian Schnabel, Medizinische Fakultät Carl Gustav Carus, TU Dresden

"3D imaging of lung tissue during total liquid ventilation"

18:00 -- 19:00 Lise-Meitner-Lecture, H 0105

Renate Loll, Universität Utrecht

"More than meets the eye: probing the planckian structure of spacetime"

Freitag, 30. 3. 2012

8:30 -- 9:15 Plenary Talk

Matthias Scheffler (O), Fritz-Haber-Institut Berlin

“Role of van der Waals Interactions in Physics, Chemistry, and Biology”

FV-übergreifende Symposien

SYCF: Symposium Fukushima und die Konsequenzen

SYND: Symposium Control of Network Dynamics

SYNM: Symposium Frontiers of Nanomechanics

SYOL: Symposium Origin of Life

SYRS: Symposium Resistive Switching

SYSD: Symposium SKM Dissertationspreis

SYTI: Symposium Topological Insulators: Influence of Superconductivity, Magnetism and Extrinsic Spin-Orbit Interaction

SYTM: Symposium Tailoring magnetism in $L1_0$ -ordered nanostructures: Perspectives for magnetic recording beyond 1 Terabit/in²

SYXD: Symposium 100 years of X-ray diffraction: from the Laue-experiment to new frontiers