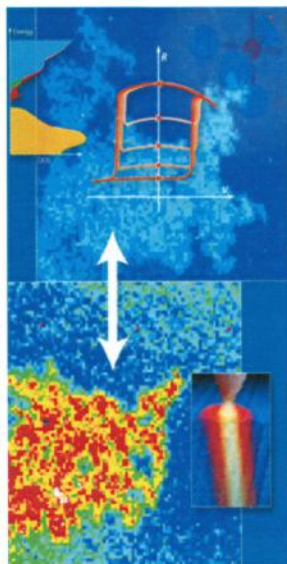


Attendance and Payment Acknowledgement



This is to certify that

Anna Razumnaya
University Picardie FR

participated in the 47th IFF Spring School “Memristive Phenomena – From Fundamental Physics to Neuromorphic Computing” held in Jülich, Germany, from 22 February until 04 March 2016.

During about 50 hours of lectures, following topics have been treated in detail:

- Structure of Matter
- Electronic Structure of Matter
- Electron Transport
- Lattice Disorder
- Ion Transport Mechanisms
- Phase Transitions
- Physics and Chemistry of Redox Processes
- Magnetism and Spin Polarized Transport
- Electron Tunneling
- Chemical Vapour Deposition
- Physical Deposition Techniques
- Nanotechnological Integration
- Self-Organization Techniques
- Electrical Characterization of Memristive Cells
- Transmission Electron Microscopy
- HRTEM based Spectroscopy
- X-ray Diffraction Methods
- Scanning Probe Analysis
- Photoelectron Spectroscopy
- Photoelectron Emission Spectroscopy
- Spintronics
- Electrochemical Metallization Memories
- Valence-Change in Nanoionic Oxide Cells
- Switching Kinetics of Valence Change Memories
- Electron Avalanche in Gap Mott Insulators
- Phase Change Memories
- Threshold and Memory Switching Kinetics of PCM
- Interfacial Phase Change Memories
- Memristive Tunneling Devices: From Device Principles to Neuromorphic Applications
- Reliability Issues of Memristive Devices
- Ultimate Physical Limit of Scaling
- Select Devices for Memristive Crossbar Arrays
- From Memristive Gate-Array Logic to Neuromorphic Computing

We acknowledge receipt of the registration fee of 50 EUR.

Jülich, 04 March 2016



Prof. Dr. Rainer Waser
- Scientific Director -

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