

The page features a decorative graphic consisting of three blue circles of varying sizes, each with a darker blue center and a lighter blue outer ring. These circles are arranged in a vertical line, with the largest at the top, a medium one in the middle, and a large one at the bottom right. Thin blue lines extend from the top left and top right corners towards the circles, creating a sense of perspective.

**2013**

## **SFB 803 Winterschool**

**Georg-August Universität Göttingen**

**04. – 05. März**

Ev. Familienerholungs- und Bildungstätte  
**„Haus am Seimberg“ Brotterode**

**Winterschool 2013**  
**04.03.2013 – 05.03.2013**  
**„Haus am Seimberg“ Brotterode**

**04.03.2013**

**08:00**      **Departure by bus, Tammannstr. 2**

**10:30**      **Haus am Seimberg**

**10:40**      **Coffee Break**

**1. Session**

11:00	Welcome	Claudia Steinem
11:05	Organization and interaction of helical peptides in artificial membranes	Ulrike Rost (A01)
11:30	Probing the structure of peptides with EPR distance and orientation measurements at high-fields	Igor Tkach (A02)
11:55	Lipid-protein interactions by MD simulations	Rodolfo Briones (A03)

**12:20**      **Lunch**

**2. Session**

13:30	Tailor-made glycosphingolipids in artificial membranes	Ole Schütte (A05)
13:55	The mechanics of mechanosensory primary cilia in kidney epithelial cells	Christoph Schmidt (A07)
14:20	Quantifying the diffusion of membrane proteins and peptides	Kerstin Weiß (A10)
14:45	Membrane fusion in model systems and synaptic vesicles studied by X-ray diffraction	Yihui Xu (B01)

**15:10**      **Coffee Break**

**3. Session**

15:40	Free energies of vesicle fusion determined using MD simulations	Gregory Bubnis (B02)
16:05	Free-energies of the stalk to pore transition and its implication for the fusion protein machinery	Herre Jelger Risselada (B02)
16:30	Unfolding Diversity – Harvesting Excellence	Silvie Klein-Franke

**18:00**      **Dinner**

**19:30**      **Curling**

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## 05.03.2013

### 1. Session

9:00	Solubility-diffusion model for membrane permeability revisited – unexpected effects of cholesterol	Jochen Hub (A12)
9:25	Dynamics and interactions of VDAC1 studied by NMR spectroscopy	Saskia Villinger/ Nils Lakomek (A04)
9:50	Structure calculation of the transmembrane protein domain of YadA from solid-state NMR data	Michael Habeck (Z02)
10:15	Lipid- and ligand-dependent structure of helical membrane proteins	Lukasz Jaremko (A11)

**10:40 Coffee Break**

### 2. Session

11:10	Interbilayer repulsion force from changes in area per lipid upon dehydration	Yulia Smirnova (B03)
11:35	Mechanisms of vesicle spreading on surfaces	Marc Fuhrmans (B03)
12:00	Investigation of SNARE mediated membrane fusion on a single vesicle level	Lando Schwenen (B04)

**12:25 Lunch**

### 3. Session

13:25	Strategies to inhibit the SNARE disassembly	Meike Quast (B05)
13:40	Beta-peptide modified SNARE motifs for membrane fusion	Muheeb Sadek (B05)
13:55	“Unity in diversity”: syntaxin isoforms organization in neuronal membrane	Dragomir Milovanovic (B06)
14:20	Mechanics and thermodynamics of coiled coil peptides in the context of membranes	Andreas Janshoff (B08)
14:45	Cooperative recruitment of Dynamin and BAR domain-containing proteins leads to GTP-dependent membrane scission.	Michael Meinecke (B09)
15:10	Closing remarks	Claudia Steinem

**15:40 Departure by bus**

**17:40 Arrival in Göttingen**