



# Cryo Transmission Electron Microscopy on Complex Fluids Workshop (February 2009)

Physical Chemistry Department - University of Cologne

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## Monday (the 9<sup>th</sup> of February 2009)

09:30 Arrival

10:00 – 11:00 **TEM Launching**

- Start up
- TEM alignment

11:00-12:00 **Lecture I** : Introduction to sample preparation for TEM Investigations

- Hard particle suspensions
- Complex fluids
- Cryo-preparation techniques:  
a) cryo-direct imaging, classical technique (cryo-DI)

12:00 – 13:00 Lunch break

13:00-14:00 **Lecture II**: Introduction to sample preparation for TEM Investigations

- Cryo-preparation techniques:  
b) Freeze Fracture and replication (FFEM)  
c) Freeze Fracture Direct Imaging (FFDI)

14:00 – 17:30 **Workshop I**: Sample preparation for Freeze Fracture and replication (FFEM) using a water solution of DDAB

## Tuesday (the 10<sup>th</sup> of February 2009)

10:00 - 12:00 **Workshop II** : FFEM Sample investigation

12:00 – 13:00 Lunch break

13:00 - 17:30 **Workshop II**: FFEM Sample investigation

## Wednesday (the 11<sup>th</sup> of February 2009)

**BioSoft School: Student Seminar and Lectures in Jülich !!!**

## Thursday (the 12<sup>th</sup> of February 2009)

10:00 – 12:00 **Workshop III** : Sample preparation for Cryo Direct Imaging

12:00 – 13:00 Lunch break

13:00 - 17:30 **Workshop IV**: Investigation of the Cryo-DI samples

## Friday (the 13<sup>th</sup> of February 2009)

10:00 - 12:00 **Workshop V** : Image Processing and Analysis

12:00 – 13:00 Lunch break

13:00 – 16:00 **Workshop V**: Image Processing and Analysis. Concluding remarks