



Freie Universität Berlin (FU)



Arab International University (AIU)

The 1st Winter Workshop of Pharma Nanotech

A scientific cooperation between FU and AIU

13th-15th September 2010

at the **Free University of Berlin**

Monday 13/9

Day 1	Activity	Topic: Production & Analytics of Nanosystems	Speaker
9:00	Welcome	Opening of the workshop: AIU word, FU word	
9:30	Presentation	High pressure homogenization as a particle size reduction technique	Dr. A. Hommoss
10:00	Presentation	Frontiers in Nanotechnology: Nanocrystals production by pearl milling	Mr. S. Kobierski
10:30	Presentation	Lyophilisation in Pharmaceutical industry	Mr. A. Brinkmann
11:00	Coffee break		
11:30	Presentation	Photon Correlation Spectroscopy: Theory and practice	Mr. L. Al Shaal
12:00	Presentation	Coulter counter: an accurate particle size measuring method	Mrs. D. Harden
12:30	Lunch break		
14:00	Presentation	Laser Diffractometry: Theory and practice	Mr. S. Kobierski
14:30	Presentation	Differential Scanning Calorimetry: Theory and practice	Mrs. S. Acar
15:00	Presentation	Zeta Potential: Theory and applications	Mr. D. Peters

Tuesday 14/9

<u>Day 2</u>	Activity	Topic: Delivery Systems	Lecturer
9:00	Discussions		
9:30-10:15	Presentation	20 Years anniversary of lipid nanoparticles - what is the state of development & marketing?	Prof. Dr. R. H. Müller
10:30-11:15	Presentation	Drug nanocrystals - from the academic idea to the market	Dr. C. Keck
11:30-12:00	Presentation	Nanoemulsions, for parenteral Nutrition and drug delivery	Mrs. D. Harden
12:15	Lunch		

Wednesday 15/9

<u>Day 3</u>	Activity	Topic: Practical Training in the lab	Lecturer
9:30	Practical work	Nanocrystals Production Nanostructured Lipid Carriers Production Product monitoring	Mr. S. Kobierski, Mr. L. Al Shaal, Dr. A. Hommoss
12:30	Lunch break		
14:00	Presentation	Calculations, sum up and reporting	
15:00	Presentation	Industrial development of lipid nanoparticles for cosmetics	Dr. A. Hommoss

All scientific activities will be held at the **Institute of Pharmacy, Department of Pharmaceutics, Biopharmaceutics & NutriCosmetics, Free University, Berlin**

Kelchstr. 31, 12169, Berlin

Organizers:

Prof. Dr. Rainer H. Müller

Dr. Cornelia Keck

Co-Organizers:

Dr. Aiman Hommoss (AIU)

Dr. Ranjita Shegokar (FU)