

CONFERENCE UNIVERSITAIRE DE SUISSE OCCIDENTALE (CUSO)

SEMINAIRE HORS VILLE EN CHIMIE II

September 26 - 30, 2004
EUROTEL VICTORIA, CH 1884 VILLARS SUR OLLON (VD)

Polyelectrolyte and Colloids

General Scope

Polyelectrolytes are Polymers built up from charged repeating units. Their properties are defined mainly by the electrostatic interactions within the macromolecule and with the small counter ions, which compensate their charge. Colloids are finely divided systems. They consist of particles between 1 and 1000 nm with a large surface to volume ratio. In contrast to macroscopic solids their properties are therefore determined by the chemistry in the interfacial region. Especially if they carry surface charges, their high number dominates their macroscopic properties. Polyelectrolytes and Colloids play an important role in many natural processes and have a large number of applications in modern technology. In addition they are building blocks for new high tech materials. In spite of this importance, they are in general not treated in the chemistry curriculum. The goal of this summer school is to give young scientists from academia and industry an introduction into the field of polyelectrolyte and colloid science and some of their applications.

Organizing Committee

Prof. Carl Wilhelm Schlaepfer, Department of Chemistry, University of Fribourg
Tel.: 026 300 87 35, Fax: 026 300 97 38, e-mail: carl-wilhelm.schlaepfer@unifr.ch
Prof. Peter Belser, Department of Chemistry, University of Fribourg,
Tel.: 026 300 87 39, Fax: 026 300 97 38, e-mail: peter.belser@unifr.ch

Location

Eurotel Victoria Villars, Route de Layeux, CH-1884 Villars sur Ollon,
Tel.: 024 495 31 31, Fax. 024 495 39 53, e-mail: villars@eurotel-victoria.ch

Scientific Program

Time	Sunday 26.9.	Monday 27.9.	Tuesday 28.9.	Wednesday 29.9.	Thursday 30.09.
8 30 – 9 30		Koper (1)	Williams (2)	Williams (3)	Hellweg (4)
9 30 – 10 30		Williams (1)	Hellweg (2)	Hellweg (3)	Williams(4)
Coffee Break					
11 00 - 12 00		v. Klitzing(1)	Koper (3)	v. Klitzing(3)	v. Klitzing(4)
Lunch Break					
14 00 – 15 00		Hellweg (1)		Swiss Lecture(1)	Departure
15 00 – 16 00		Koper(2)		Swiss Lecture(2)	
Coffee Break					
16 30 – 17 30		v. Klitzing(2)		Swiss Lecture(3)	
17 30 – 18 30	Welcome Drink 19 00	Poster Session		Koper (4)	
Dinner					

Lecturers

PD. Dr. Thomas Hellweg *Colloids, Properties and Characterization*

e-mail: thomas.hellweg@tu-berlin.de
 Stranski-Laboratorium, Sekr. ER1 TU Berlin
 Straße des 17. Juni 112
 D-10623 Berlin

Dr. Ger Koper *Introduction and Basics of Polyelectrolytes*

e-mail: g.j.m.koper@tnw.tudelft.nl
 Physical Chemistry & Molecular Thermodynamics
 DelftChemTech
 Julianalaan 136, 2628 BL Delft

PD. Dr. Regine von Klitzing *Applications of Polyelectrolytes and Colloids*

e-mail: klitzing@chem.tu-berlin.de
 Stranski-Laboratorium, Sekr. ER1, TU Berlin
 Straße des 17. Juni 112
 D-10623 Berlin

Dr. Claudine E. Williams *Characterization of Polyelectrolytes in Solution*

e-mail: claudine.williams@college-de-france.fr
 Physique des Fluides Organisés (CNRS URA 792)
 11 place Marcelin Berthelot
 75005 Paris, France

Swiss Lectures: Three Swiss scientists working in the field of Polyelectrolytes or Colloids will be invited to present their Research.

Registration

Graduate students and interested persons wishing to participate in this Summer School should register online on the web page before July 20, 2004.

<http://www-chem.unifr.ch/frames/conference/seminair2004/>

The registration fee (see below) should be paid prior to the inscription. The registration fee has to be transferred to:

UBS SA, 1002 Lausanne, Account 260-504575.L1Q, remark "Seminaire hors ville 2004"

On the web page you also find all information on the Summer School (if you have any problem send an e-mail to carl-wilhelm.schlaepfer@unifr.ch)

If you prefer you can print the enclosed registration form, complete it and send it to the organizers:

Prof. Carl Wilhelm Schlaepfer, Department of Chemistry, Chemin du Musée 9, CH-1700 Fribourg.

Registration Fee and Accommodation

The registration fee covers the total cost of the seminar, including full board from Sunday evening to Thursday noon (4 nights, 12 meals). Participants from Industry are asked to pay there hotel costs 4 * 125.- SFr in a single room, 4 * 115.- SFr in double room.

Participant	Registration	Hotel (Sept. 26th -30th, 2004)
CUSO Universities	180. - SFr	included
Other Universities	700. - SFr	included
Industry (double)	700. - Sfr.	125. - SFr (single), 115. - SFr

Poster Session

On Monday afternoon a poster session will be held. Participants are invited to present a poster on their work. The subject of the poster is not restricted to the theme of the summer school. Participants who wish to present a poster have to submit a one page abstract before July 31, 2004 to Prof. Carl-Wilhelm Schlaepfer in electronic form by e-mail, carl-wilhelm.schlaepfer@unifr.ch (files in word or PDF format).

Arrival

All participants are asked to arrive on Sunday, September 28th, 2004 in the after-noon. The reception of the participants (welcome drink) will be held from 18.00. The first dinner is served at 19.00.

For more information on the location and the travel see:

<http://www.villars.ch/f/home/>

<http://www.eurotel-victoria.ch/>

