

# International Association of Colloid and Interface Scientists

# **NEWSLETTER NO. 46**

December 2009

EDITED BY GER KOPER

### **NEWSLETTER 46**

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# INTERNATIONAL ASSOCIATION OF COLLOID AND INTERFACE SCIENTISTS

# NEWSLETTER NO. 46 December 2009

## 1 ABOUT THE NEWSLETTER / FROM YOUR NEWS-LETTER EDITOR

Before you lies NL46, the first newsletter that will appear (largely) in digital form. The information that you can find here is also available on the website and I kindly ask you to find out about it. Just navigate to the IACIS website – <u>www.iacis.nl</u> – and it might very well be that you find out that the information there is frequently updated. You need a user name and a password for that. These will be sent to you after you send a request by e-mail to <u>webmaster@iacis.nl</u>; please do include your membership number.

On the website we maintain a list of upcoming conferences, meetings, schools, etc. and those published in the newsletter will be a one-time flash only. If you would like a conference to be posted in this list, please send us the necessary information and it will be done.

Likewise, as the previous newsletter editor did, we maintain a list of recently published books. There is one but: only those publications that are reviewed will be posted. So, if you wish your book advertised, please ask a colleague for a review.

As with the past newsletters, the maintenance of the website is a single person's effort. Not all changes will therefore be carried out as

fast as you might like to see. We will try to do our best but we hope you realize this when addressing us! Please, let this not keep you from sending relevant information, suggestions, additions, etc.

The items in this Newsletter are contributed by members of IACIS and we are grateful for this. The next newsletter is scheduled for spring 2010, so if you have some issue to discuss, please send it.

Waiting for your response, I remain

Ger Koper webmaster@iacis.nl

# 2 STATUS OF THE NEWSLETTER, LIABILITY

The first two Newsletters (henceforth abbreviated as NL 1 and NL 2), dated September 1978 and July 1979, respectively, were written under the auspices of the IUPAC Commission on Surface and Colloid Science (Commission I.6) before IACIS was formally established. Starting with NL-3 in June 1980 the Newsletters appear under IACIS auspices.

Parts of this NL may be copied provided the source is acknowledged. Although everything is verified to the best of our knowledge, errors may occur; IACIS cannot accept any responsibility for them.

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# 3 IACIS NEWS

## 3.1 Presidential Message

This is my first message as the new President of IACIS. I succeeded Björn Lindman (Sweden) during the General Assembly at the end of the IACIS meeting in New York City. Björn has set a great example for me to follow and I thank him for his three years of service to IACIS as President. He continues to serve as Immediate Past President, whose duties include overseeing the travel bursary program, which I hope to expand.

The recent meeting in New York City was the largest ever for IACIS: over 1200 registrants requiring 15 parallel sessions to accommodate the number of oral presentations. Of course, this meeting was cosponsored by the Colloid and Surface Science Division of the American Chemical Society and included many registrants who normally attend this annual summer meeting. However the usual number of registrants for the summer ACS meeting is about 600 so 1200 registrants is also a record for this group. Most of the credit must go to the attractive venue provided by New York City and Columbia University. On behalf of IACIS, let me formally thank Prof. Ponisseril Somasundaran who served so effectively as meeting program chair.

IACIS had its tri-annual election in May. I would like to formally congratulate Kazue Kurihara, who was chosen as President-Elect. She will succeed me in 2012. Prof. Kurihara is also organizing the next IACIS meeting in Sendai, Japan. Let me also welcome the newly elected members of Council: Hans-Jürgen Butt (Germany), Jun-Bai Li (P.R. China), Hiroyuki Ohshima (Japan), Alex Routh (UK), Conxita Solans (Spain) and Cosima Stubenrauch (Ireland). Many of you know Hans-Jürgen as the Chair of the German Colloid Society. IACIS will need Council's wise stewardship in the coming years.

Besides elected members of Council, the President has authority to appoint eight "co-opted" members. My choices were Ludmilla Boinovich (Russia), Fernando Galembeck (Brasil), Andrew Howe (UK), Ger Koper (Netherlands), Hans Lyklema (Netherlands), Brian Vincent (UK), Dimo Platikanov (Bulgaria) and John Walz (US). Some of these were chosen because they are from countries which are underrepresented in the Council while others were chosen to provide continuity in leadership or liaison with large national organizations. Of course Hans, Dimo and Brian are well known as former presidents of IACIS, Ger Koper is our Newsletter editor and webmaster, Andrew Howe is the President-Elect of ECIS and John Walz is Vice-President-Elect of the Colloid Division of ACS. I am writing this as the G-20 meeting of heads of state is occurring in my home city of Pittsburgh. In the long run, this event promises to generate visibility for our city but in the short run the tight security surrounding meeting sites has created a lot of inconvenience for residents trying to get to and from work. Many stores and restaurants have closed during this two-day period because of possible protests and travel difficulties for customers. There was one report of a University of Pittsburgh student in her tenth-story dormitory room being exposed to tear gas which was released outside by police trying to break up a group of protestors. Fortunately, the international meetings of IACIS are much friendlier. Of course, solving the problems of colloid and interface science is far less controversial than solving the world's economic problems. This is the first Newsletter which is sent out electronically instead of via snail mail. Council voted in New York to make this change which will save printing and mailing costs, the largest expense items of our organization's budget. The savings will be used to expand the travel bursary program and support more technical conferences. For more information about the travel bursary program, go to the members-only pages of our website.

Please contact me with any suggestions for improvement to our website or ideas of how IACIS can better serve its members.

Dennis Prieve Pittsburgh, PA September 25, 2009

### 3.2 Concise report of the IACIS General Assembly

IACIS/ACS Conference 2009 (13th ICSCS), New York June 19, 2009, 5 - 6 pm

See for additional information the minutes of the IACIS Council meeting, June 17, 2009. It can be found on the members' page of the IACIS website.

During this meeting the presidency of IACIS was formally transferred from Björn Lindman to Dennis Prieve.

1. Welcome and Introduction by Björn Lindman

2. Report by the Chair of the IACIS/ACS Conference (13<sup>th</sup> ICSCS) (Ponisseril Somasundaran)

Prof. Somasundaran acknowledged all persons that contributed to the organization of the conference, in particular the students. The logistics were taken care of by the ACS. On behalf of the IACIS Council the President expressed his appreciation for the organizers of the conference.

### 2. Finances and membership numbers

An overview was presented by Mieke Kleijn, Hon. Secretary and Treasurer (attached to the minutes of the Council meeting). In the Council meeting of June 17, 2009, it was decided to go more electronically (i.e., save on printing and mailing costs), so there would be more resources for sponsoring and other activities. It was proposed and decided to collect IACIS membership fees together with the fees for the IACIS conferences (the next organizer, Kazue Kurihara, would investigate the possibilities).

The travel bursary program of IACIS is a matter for the Immediate Past President, and therefore was handed over from Brian Vincent to Björn Lindman.

#### 3. Distinction

- a. In the Council meeting it was decided that in future Conferences the distinction of IACIS Lecture will be replaced by an IACIS Life Time Achievement Award. The person who is awarded will be invited to give a lecture. A small committee (Somasundaran, Prieve and Lindman) would work out a proposal. See minutes IACIS Council meeting for more details.
- b. During the Council dinner on June 17, Hans Lyklema was granted an Honorary Lifetime Membership of IACIS for all his contributions to IACIS, in particular for his work as Newsletter Editor.

#### 4. Future IACIS conferences

Since it was already decided to have the 2012 Conference in Japan and the 2015 Conference in Germany, at this time no further decisions were needed.

On behalf of the organizer, Kazue Kurihara (who could not be present at the General Assembly) a short presentation on the timing and venue of the 2012 Conference in Sendai was given.

#### 5. Introduction of the new President

Björn Lindman introduced his successor as President of IACIS, Dennis Prieve. After this Dennis Prieve gave a short presentation (including a picture of the first IACIS Council – Prieve concluded that he followed in the footsteps of Parfitt, who also worked at Carnegie Mellon) and indicated the priorities for the next few years: increase membership numbers, make the Newsletter available online and make the next IACIS conference to a success.

Dimo Platikanov gave some additional information on the first Council and remarked that two of the first Council members were present at the current conference, Hans Lyklema and Tom Healy. He further suggested to not only make the Newsletter available online, but also send it personally to all members (per e-mail).

#### 6. Other points / discussion

- Next time (2012) the General Assembly should be announced better and be planned earlier during the conference. Now, at the end of the conference, already many people had to leave and could not attend.
- It was suggested to include on the website post-doc positions etc (to make the website more informative and attractive to young people).

Balance per September 1, 2008	€ 2.433	<b>Totals</b> € 2.433
<u>Receipts</u> IACIS membership fee ECIS membership fee Interest	€ 8.336 € 960 € 10	€ 9.306 € 11.739
Payments Sponsoring (travel bursary) Bank costs Mailing Printing Debt collection charges Other costs* Salary secretary Balance per September 1, 2009	€ 580 € 208 € 2.339 € 1.509 € 357 € 854 € 1.300 € 4.591	€ 7.148 € 4.591 € 11.739
Number of members Sep. 1, 2008 Number of members Sep. 1, 2009	422 406**	

## 3.3 Financial report September 2008 – September 2009

Amounts are rounded.

mainly related to the leaving of J. Lyklema as NL editor
55 new members, 1 retired member added again, 55 defaulters,
10 undeliverable, 5 retired or no longer interested, 2 deceased.

## 3.4 Venue of the 14th IACIS Conference, 2012

As our president already announced, it was decided that the 14th IACIS Conference shall be held in Sendai in 2012 while the 15th IACIS Conference will be organized in Germany. The President of the 14th conference, Professor Kazue Kurihara, has recently decided about the dates for the meeting. They are May 13 to 18, 2012.

# 3.5 Colloid and Interface Science – Alive and Kicking at the 30<sup>th</sup> Anniversary of IACIS

This is the title of a feature article on our Association that appeared in the July-August 2009 issue of Chemistry International (CI, Vol. 31, No 4, p. 8-11).

Chemistry International is the News Magazine of the International Union of Pure and Applied Chemistry (IUPAC), to which IACIS is a so-called Associated Organization.

http://www.iupac.org/publications/ci/2009/3104/2\_kleijn.html

#### 3.5 Honorary Life Membership for Hans Lyklema

At the end of 2008, after 30 years, Hans Lyklema retired from his job as the Newsletter Editor. Over the years he edited 44 Newletters, of which the first two, dated September 1978 and July 1979, were written under the auspices of the IUPAC Commission on Surface and Colloid Science before IACIS was formally established. Apart from being NL Editor, Hans Lyklema contributed in many other ways to the good functioning of IACIS. For all his long-standing and merituous contributions to the Association, the IACIS Standing Committee decided to award him with an Honorary Life Membership. The award was presented to him on the occasion of the Council Meeting on June 17, 2009, during the IACIS Conference in New York. The President Björn Lindman, handed over a certificate and a small statue.



### 3.6 A trip to New York with IACIS!

Reading the IACIS Newsletter No. 45, I was cheered up by the announcement of the conference travel bursaries. I already had a plan to fly to New York City, and was delighted when I received the positive decision from the committee. I just had to call Alex, an old friend from my PhD days who now lives in Brooklyn, ask if I can move in with her for two weeks, and was ready to fly.

The 13th IACIS International Conference on Surface and Colloid Science and the 83<sup>rd</sup> ACS Colloid & Surface Science Symposium was held in mid June at the Columbia University. The registration started on the Puerto Rican Day eve, which features the city's largest parade marching along the Fifth Avenue and spreading its sounds and colors all over the city (Brooklyn in particular). The five-day (conference) program covered a very broad spectrum of topics from simulations and modeling to the biomedical applications, organized in thirty six oral and two poster sessions. A live atmosphere was created among the participants, both the established ones and those in early stage of career, who had a great opportunity to present their work in short talks. The poster sessions were held at the monumental Low Memorial Library, which also offered a stage for chatting around a glass of wine or beer. And while the rushing through the corridors of the famous university searching for the lecture rooms. surely made many participants a bit nostalgic about their student days, the lunch breaks offered the relaxation and leisure among the campus lawns as well as the bourgeois Morningside Hills and the Upper west side. If only the weather was a bit more favorable!

While the first week of my trip was largely consumed by the conference program, the second was planned for enjoying the city life and a visit to the upstate. New York was always my favorite city, not only for the number of theaters, bars, museums, and all the other things it is famous for, but even more for its interesting and communicative inhabitants. I do not know another place where people are as imaginative in their effort to escape the everyday life, be it disco roller dancers or freezebee artists at the Central Park, subway musicians or pure exhibitionists.



#### An exhibitionist (walking colloidal probe AFM?!)

After several relaxed post-conference days in the city, I was heading northeast to Ithaca on the Cornell Campus-to-campus Executive Coach (read a very fancy bus), to visit Dr. Fabio Cicoira, another good friend from my PhD days in Switzerland. As the Coach left Manhattan, the weather also improved, and I could first see the famous postcard skyline from the New Jersey side of Hudson, and a bit later the wonderful hills and forests of the Appalachian. The purpose of my trip was not only to explore the picturesque campus of the Cornell University and have a dinner with Fabio, but also to visit the Cornell NanoScale Science and Technology Facility. Fabio was a perfect guide through this complex of white rooms hosting about everything one can imagine in the production and characterization of the nano-structured surfaces (a very concise video tour is found at http://www.cnf.cornell.edu/). Hereby I would like to thank CNF for opening their doors to me.



The mammatus clouds above the Union Square

Upon returning to New York, I was left with two more days for walks, bars and... shopping. The weather returned to unpredictable, which was not always unpleasant, as it allowed me to witness a capricious and wonderful display of our atmosphere – the mammatus clouds above Manhattan. With this picture in mind I was flying back to London, to spend another couple of days with, as you may guess, , as you may guess, some more friends from my PhD days... My credits to the IACIS and good luck to the future travelers!

Dusko Cakara, Dpt. of Biotechnology, University of Rijeka, Croatia



Cornell NanoScale Science and Technology Facility

# 4 IACIS-SPONSORED MEETINGS

- **4.1** International Conferences on Surface and Colloid Science (since 1979 under auspices of, and sponsored by, IACIS)
- History: 1st Conference, Budapest, Hungary, 1975
  - 2nd Conference, Puerto Rico, 1976
  - 3rd Conference, Stockholm, Sweden, 1979
  - 4th Conference, Jerusalem, Israel, 1981
  - 5th Conference, Potsdam NY, U.S.A., 1985
  - 6th Conference, Hakone, Japan, 1988
  - 7th Conference, Compiègne, France, 1991
  - 8th Conference, Adelaide, Australia, 1994
  - 9th Conference, Sofia, Bulgaria, 1997
  - 10th Conference, Bristol, United Kingdom, 2000
  - 11th Conference, Iguassu Falls, Argentina/Brazil, 2003
  - 12th Conference, Beijing, China, 2006
  - 13th Conference, New York NY, U.S.A., 2009, see section 5 for further details
- Future: 14th Conference, 2012. See item 3.4 for details.

## 4.2 Other conferences sponsored or co-sponsored by IACIS

In addition to the large international conferences, IACIS has supported, and will support, smaller meetings, all of this in the framework of its credo. Here follows a list of sponsored smaller conferences:

- 1) September 1983 Paris (France) Physical Chemistry of Colloids and Interfaces: Biotechnology and Drug Research
- 2) June 1984 Lund (Sweden) 8th Scandinavian Symposium on Surface Chemistry with international participation
- 3) June 1984 Pittsburgh (U.S.A.) 58th Colloid and Surface Science Symposium ACS

- 4) May 1986 Zakopane (Poland) IX European Chemistry at Interfaces Conference
- June July 1986 Crveni Otok (Yugoslavia) 7th International Summer Conference on the Chemistry of Solid-Liquid Interfaces
- 6) September 1987 Eindhoven (The Netherlands) Polymers in Colloidal Systems: Adsorption, Stability and Flow
- 7) May 1988 San Benedetto (Italy) X European Chemistry at Interfaces Conference
- June 1989 Åbo/Turku (Finland) EUCHEM Workshop on Adsorption of Surfactants and Macromolecules from Solution, and 10th Scandinavian Symposium on Surface Chemistry
- 9) June 1990, Toronto (Canada) International Symposium on Contact Angles and Wetting Phenomena
- 10) November 1990, Moscow (Russia) International Conference on Surface Forces
- 11) June 1991, Bergen (Norway) 11th Scandinavian Symposium on Surface Chemistry, with international participation
- 12) June-July 1992, Lund (Sweden) XII European Chemistry at Interfaces Conference
- 13) August 1992, Moscow (Russia) 10th International Conference on Surface Forces
- 14) September 1992, London (United Kingdom), Colloids in the Aquatic Environment
- 15) May 1993, Louvain-la-Neuve, (Belgium) Bioadhesion II, International Conference on the Fundamental Aspects of Bioadhesion and Flocculation and their Implications in Technological, Ecological and Medical Fields
- 16) September 1993, Bristol (United Kingdom) Polymers at Interfaces
- 17) September 1993, Granada (Spain) Electrokinetic Phenomena '93
- January 1994, Kona (Hawaii, U.S.A.) Surface Characterization of Adsorption and Interfacial Reactions

- 19) June 1994, Espoo (Finland) 12th Scandinavian Symposium on Surface Chemistry
- 20) September 1994, Kiev (Ukraine) XIIIth European Chemistry at Interfaces Conference
- July 1995, Marateca (Italy) Nato Advanced Research Workshop on Fine Particle Science and Technology from Micro to Nanoparticles
- 22) March 1996, Crete (Greece) European Research Conference on Wetting and Capillarity
- 23) March 1996, Szeged (Hungary) Nanoparticles in Solids and Solutions (NATO Anvanced Research Workshop)
- 24) June 1996, Moscow (Russia) 11th International Conference on Surface Forces
- 25) September 1996, Eger (Hungary) 7th Conference of Colloid Chemistry
- 26) September-October 1996, Rome (Italy) Electrokinetic Phenomena '96
- 27) October 1996, Antwerp (Belgium) XIV European Chemistry at Interfaces Conference
- 28) August 1997, Wageningen (The Netherlands) Interfaces Against Pollution
- 29) January 1998, Kona (Hawaii) Surface Characterization of Adsorption and Interfacial Reactions II
- May 1998, Amalfi (Italy) Organisation in Polymer-Surfactant Systems
- 31) June 1998, Stockholm (Sweden) 12th International Symposium on Surfactants in Solution
- 32) October 1998, Moscow (Russia) International Conference on Colloid Chemistry and Physical-Chemical Mechanics
- 33) March 2000, ELKIN (Germany)
- 34) June 2000, France, 3rd World Congress on Emulsion
- 35) October 2000, Dresden (Germany) International Symposium on Electrokinetic Phenomena

- 36) May 2002, Miskolc (Hungary) 2nd International IAP Conference on Interfaces Against Pollution
- May 2003, Vladimir (Russia) 16th European Chemistry at Interfaces Conference
- May 2004, Juelich (Germany) 3rd Interfaces against Pollution Conference
- February 2005, Sydney (Australia) 2nd Australian Colloid and Interface Symposium ACIS 2005
- 40) July 2005, Loughborough (United Kingdom) 17th European Chemistry at Interfaces Conference
- 41) June 2006, Moscow (Russia) 13th International Conference on Surface Forces
- 42) June 2008, Kyoto (Japan) 5th International Conference on Interfaces Against Pollution IAP2008.
- 43) October 2010, Lyon (France) World Congres on Emulsions.

### 5 CONFERENCES ... more on IACIS.NL

NOTE We cannot accept any responsibility for omissions or errors, although of course the information is checked to the best of our knowledge.

#### 2009 MRS Fall Meeting

November 30 - December 4, 2009, Boston, USA. The increasingly cross-disciplinary worldwide activity on materials research culminates every year in the MRS Fall Meetings. Symposium organizers from around the world have created a program that addresses leading-edge research and captures the extraordinary progress in materials science and technology, featuring an exciting mix of well-established and popular topics.

Info: Conference secretariat

# PPC11, 11th Pacific Polymer Conference 2009

December 6-10, 2009, Cairns, Australia.

PPC11/31APS will be a major international gathering of polymer scientists and engineers. All aspects of our profession will be covered in a comprehensive program, including modern polymerization methodologies, living free radical polymerization, complex polymer architectures, functional polymers, nanocomposites, traditional composites, electro- and optico active polymers, polymers in biology and medicine, naturally-derived polymers, polymers at interfaces and surfaces, polymer engineering, polymer rheology, polymer processing, mechanical properties and polymer characterization. We encourage you to submit abstracts for both poster and oral presentations. Info: Andrew Whittaker

#### Powder Flow 2009

December 16, 2009, London, UK.

A one day seminar organised by the formulation group of the RSC on powder flows. The seminar will journey through the latest, most upto-date knowledge and praxis on powder flow measurement as a way to understand powder interactions and structuring. Info: **Philippe Rogueda** 

# First Asian Conference on Thermal Analysis and Applications, ASTA 2009

December 17-18, 2009, Bangkok, Thailand.

This conference will cover the key aspects of thermal analysis to include theory, instrumentation, methods, characterization of various important materials, and will also focus on practical uses and applications. It is hoped that this conference will serve as a forum for researchers, scientists, engineers and technologists from both academia and industries to exchange knowledge and experiences across the whole field of thermal analysis.

Info: Piyawan Panitanta

#### 4th International congress on Chemistry and Environment, ICCE 2009

January 21-23, 2010, Ubonratchathani, Thailand. Focal theme of ICCE 2009 is agriculture, chemistry and environment. Info: **Shankar Gargh** 

### **Beyond Self** – Assembly

January 23-27, 2010, Bad Gastein, Austria. This scientific workshop will serve as a place for exchange of ideas, doubts, questions, recommendations etc. on problems of hierarchically organized systems. Self-assembly is a basic part of the game, but it will definitely be beyond micelles and microemulsions! Hierarchically organized systems typically are non-equilibrium soft matter systems including self-assembly and kinetic stabilization. (A trivial example would be a vesicle!). Such systems may include emulsified liquid crystals, layer-by-layer materials, delivery systems for functional molecules etc. We also plan to discuss formation, stability, adsorption, transfer and controlled release issues for such materials. This list is not complete, send us your suggestions!

### Info: Otto Glatter

#### **De Gennes Days: Physics of Cellular Mechanosensing** January 31 - February 3, 2010, Rehovot, Israel.

Info: Samuel Safran

#### The Waterborne Symposium: Advances in Sustainable Coatings Technology

February 8-12, 2010, New Orleans, LA USA.

The Symposium consists of topical sessions of a broad range of issues within contemporary coatings science and technology to include (1)Waterborne, high-solids, powder, and radiation-curable coating systems, (2)Stimuli-responsive and "smart" coating systems, (3) Renewable raw materials for coatings, and (4) High-throughput methodologies for formulation.

Info: Laura M. Fosselman

#### 17th Ostwald-Kolloquium of the German Kolloid-Geselleschaft in conjunction with the Rheology Meeting

March 3-5, 2010, Karlsruhe, Germany. *Rheological Properties of Colloidal Systems* Info: **Heinz Rehage** 

### **ELOPTO 2010**

March 14-17, 2010, Mainz, Germany. Established in 1974, the ELOPTO Conference Series is dedicated to the field of colloidal and molecular electrooptics. ELOPTO 2010 is the 12. conference in this series and held under the special theme "Electrooptics – a fresh look at a traditional field". In fact, since its beginnings the field has been considerably expanding and now includes experiments, theory and simulations on the electrooptics of liquid crystals, colloidal model systems, polymers and biosystems. It is devoted to fundamental research, wherever electric fields meet optics in this soft matter realm, but also will highlight interesting applications.

### Info: Thomas Palberg

# Food Colloids 2010 – on the road from interfaces to consumers

March 21-24, 2010, Granada, Spain.

The subject area of the conference is the physical chemistry of complex systems formed by the macromolecules that structure food. The aim is to learn how interaction between components leads to multi-phase structures on different length scales and the role of processing therein. Furthermore, the aim is to discuss how fundamental knowledge of the processes involved can be used to better control existing food systems and to create novel structures that will be capable of delivering functionality, in the multifarious sense of the word, such as nutrition, health, texture and taste. This is the thirteenth in the series of biennial European conferences dedicated to the area of food colloids. And will be hosted by the Biocolloids and Fluid Physics Group at the University of Granada, and co-organized by the University of Granada. Info: **Miguel Cabrerizo Vílchez** 

#### AERC 2010: 6th Annual European Rheology Conference

April 7-9, 2010, Göteborg, Sweden.

The aim of AERC 2010 is to be a meeting place where rheologists in academia and industry can share new science and technical developments, and to discuss, develop and cooperate on common themes.

Info: Alexandra Andrén

# Functionalized Plasmonic Nanostructures for Biosensing

May 18-23, 2010, Monte Verità, Switzerland.

The conference aims at identifying fundamental issues and their interdependencies, and at defining research priorities both from the fundamental and application points of view. The atmosphere of the conference is relaxed and familiar with a good deal of free time to conduct discussions, be it at posters or on nice walks along the lake. We hope that a close interaction among participants from different disciplines will help to initiate new research directions in the general area of plasmonic biosensing. Info: Mario Agio

#### International Conference on Nanomaterials: Synthesis, Characterization and Applications (ICN-2010)

April 27-29, 2010, Kottayam, Kerala, India. *This conference will be one of the big International meetings* exclusively dedicated to Synthesis, Characterization and Applications of Nanomaterials. It is anticipated that many researchers from various disciplines such as Biology, Chemistry, Physics, Technology, Engineering, Environmental Sciences and Social Sciences will be attending the conference to make this event as a truly interdisciplinary conference. The goal of the conference is to emphasize interdisciplinary research on processing, morphology, structure, properties and applications of nanomaterials and their applications in medicine, automotive, civil, chemical, and aerospace, computer and marine engineering and devices. This symposium will bring together a panel of highly-accomplished experts in the field of nanostructured materilas. Talks will encompass basic studies and applications and will address topics of novel issues. During the three-day conference, participants will listen to recognized authorities in the various fields on recent advances, difficulties, and breakthroughs in the field of nanostructured materials. The conference will feature keynote addresses, a number of plenary sessions, invited talks and contributed lectures focusing on specific tenets of nanomaterials additionally, there will be several poster sessions, and four best poster presentations will be selected for an award.

#### Info: Sabu Thomas

#### i-Polymat 2010

May 16-19, 2010, Kerkrade, the Netherlands.

Now that sales of Polymers are again on the rise at the end of this financial crisis, discussions have returned to the future of polymer materials. Industry is searching for INNOVATIVE polymer materials to open up new markets, Commodity Plastics Companies are searching for INTELLIGENT polymer modifications, while Nanocomposites are still awaiting their large-scale commercial INTRODUCTION. Info: Ludo Kleintjens

#### XVI ISBC Conference

May 31 - June 3, 2010, Lugo, Spain . The XVI ISBC Conference 2010 will focus on innovative developments and applications of calorimetry in all aspects of life sciences.

Info: Juan M. Ruso

# ELKIN2010 International Symposium on Electrokinetic Phenomena

June 6-10, 2010, Turku, Finland.

All theoretical and applied aspects of electrokinetic phenomena are covered at the symposium. However, the main topics are Theory and practice, Microfluidics, Soft and bio systems, Electrowetting and adhesion

Info: Jarl B. Rosenholm

### Formula IV

June 7-11, 2010, Stockholm, Sweden.

Formula VI is the ideal international meeting to update you on research and development of formulated products. Leading industrialists and scientists will present the state-of-the-art for a number of formulation technology topics of broad relevance. Info: Agneta Sjögren

### 84th ACS Colloid & Surface Science

June 20-23, 2010, Akron, Ohio.

Topic areas: Chemistry of Colloidal Materials, Physics of Colloids, Catalysis & Surface Science, Colloid and Interfacial Chemistry in Biological Systems, Colloid and Interfacial Chemistry in Energy Systems. Polymer Colloids, Scattering, Self-Assembly & Liquid Crystals, General Papers

Info: J. Adin Mann

#### **14th International Conference on Surface Forces** June 21-27, 2010, Moscow - St Petersburg, Russia.

The meeting will cover a broad range of colloid and surface science from chemistry to physics and engineering with the emphasis on the fundamentals of surface forces. This series of meetings was initiated in 1960 by famous Russian scientist academician B.V. Derjaguin. Info: Ludmila Boinovich

# **2010 Polymer Physics Gordon Research Conference** June 27 - July 2, 2010, Mount Holyoke College, USA.

The technical content of the meeting will include new twists on traditional polymer physics topics, recent advances in previously underrepresented topics, and emerging technologies enabled by polymer physics. A partial listing of targeted topics: electricallyactive and light-responsive polymers and polymer-based materials used in energy conversion and storage, polymers with hierarchical structures including supramolecular assemblies, ion-containing polymers, and self-assembled block polymers, mechanical and rheological properties of soft materials, such as hydrogels, and of heterogeneous materials, particularly microphase separated polymers and polymer nanocomposites, crystallization of polymers in dilute solutions, polymer melts, and miscible polymer blends Info: Karen I. Winey

### COSI 2010: 6th International Conference on Coatings Science

June 28 - July 2, 2010, Noordwijk, the Netherlands. Coatings Science International holds a broad definition of this field, combining a wide variety of disciplines in chemistry and physics. Polymer, material and paint chemists, as well as surface and interface scientists, formulators, designers and industry policy makers will find in this conference a broad platform for combining and exchanging the latest developments of their disciplines on a high scientific level.

Info: Mrs. I. Scholten

# 2nd International Soft Matter Conference

July 5-7, 2010, Granada, Spain.

The conference offers the following sessions: 1. Biophysics, 2. Colloids, 3. Polymers, 4. Surfaces and Interfaces, 5. Membranes, 6. Dynamics of Complex Fluids, 7. Soft nanotechnology, 8. Selfassembly Info: Roque Hidalgo-Alvarez

# Eufoam conference 2010

July 6-9, 2010, Borovets, Bulgaria.

EUFOAM is a conference in the area of colloid science initiated by European scientists working in the field of foams. With time, the area covered by the conference topics expanded, and now it includes also emulsions and nanoparticles derived from them; particle-stabilized fluid dispersions, as well as any systems and processes related to bubbles, drops, liquid films and rheology of dispersions. The 8th EUFOAM Conference will take place in Hotel "Samokov" in the resort Borovets, in the foot of Rila Mountain, near Sofia, Bulgaria. Info: **Peter Kralchevsky** 

#### **Macro2010: 43rd IUPAC World Polymer Congress** July 11-14, 2010, Glasgow, UK.

The 43rd IUPAC World Polymer Congress, 'Macro2010', is the latest in the series of the biennial meetings of the IUPAC Polymer Division. The series has been running for several decades and is the largest international multi-symposium conference dedicated to all aspects of polymer science and engineering. Macro2010 is organised by the Royal Society of Chemistry (RSC) and hosted by the Pure and Applied Macromolecular Chemistry Group (Macro Group UK), a joint interest group of the RSC and the Society of Chemical Industry (SCI).

#### Info: Peter Lovell

### 13th International Conference on Organized Molecular Films (LB13)

July 18-21, 2010, Quebec City, Canada.

LB13 will focus on supramolecular assemblies, molecular devices, and biological interfaces including cell-surface interactions. The related nano-science aspects and nano-technologies will be also extensively discussed. The conference will be of interest to chemists, physicists, biologists, material scientists, polymer scientists, chemical engineers and researchers in related fields. Info: **Conference secretariat** 

#### NanoBio-Zurich 2010

August 24-27, 2010, Zurich, Switzerland.

This meeting gathers the leaders of this progressive field from all over the world helping scientists to get an update on the most recent achievements in the different topics of nanobiotechnology, to discuss, to network, to exchange stimulating new ideas, and to take responsibility in forming public opinion about nanobiotechnology. Info: Marcus Textor

#### Seeing at the Nanoscale VIII

August 30 - September 1, 2010, Basel, Switzerland. Seeing at the Nanoscale VIII will provide an optimum forum for "scientists to speak to scientists" on a wide variety of nanotechnology topics with five technical sessions on: Nanobio -Molecular Machines and Systems, Nanobio - Cells and Tissues, Nanomaterials - Properties: electric, magnetic, chemical, thermal, optical.., Nanomechanics, Advances in SPM instrumentation: new instrument development, high resolution, combination of AFM with other technologies

Info: Veeco Instruments

### 24th Conference of the European Colloid and Interface Science society, ECIS2010

September 5-10, 2010, Prague, Czech Republic.

Topics include (1) Self-assembling, Stimuli-responsive and Hierarchically Organized Systems, (2) Colloid, Polymer and Polyelectrolyte Solutions; Concentrated Systems and Gels, (3) Nonequilibrium and Kinetically Arrested States, Phase Transitions, (4) Thin Films and Interfaces; Wetting Phenomena, (5) Novel Nano-tomesostructured Functional Materials, (6) Biologially Important and Bioinspired systems; Pharmaceutical and Medical Applications. Info: Karel Procházka

### World Congress on Emulsions

October 12-14, 2010, Lyon, France. Sponsored by IACIS. Info: **Thibaut Jouvet** 

## NCSS2010: International Conference on Nanoscopic Colloid and Surface Science

September 19-22, 2010, Chiba, Japan.

Division of Colloid and Surface Chemistry (DCSC), the Chemical Society of Japan will organize the international conference NCSS2010 for fruitful interdisciplinary interactions for human future with the world-wide active scientists and engineers at the comfortable water front area near the central Tokyo. Info: Kazue Kurihara

# 18th International Symposium on Surfactants in Solution (SIS)

November 7-12, 2010, Melbourne, Australia. Info: **Patrick Hartley** 

25th Conference of the European Colloid and Interface Science society, ECIS2011 September, 2011, Germany. Info: Reinhard Miller

#### Fray International Symposium

December 4-7, 2011, Cancun, Mexico. This major symposium is in honor of the distinguished work and lifetime achievements of Prof. Derek Fray. Professor Fray is a well known figure for his deeply impact in materials extraction and processing world. He is author of almost 400 scientific papers and inventor on approximately 179 patents arising from 62 families of patents. Sponsored by IACIS. Info: Florian Kongoli

### 14th IACIS International Conference on Surface and Colloid Science

May 13-18, 2012, Sendai, Japan.

Info: Kazue Kurihara

ELKIN 2012 May 20-25, 2012, Japan. Info: Hiroyuki Oshima

## 6 REGIONAL AND PERSONAL NEWS

## 6.1 Obituaries

### Joseph Alfred Kitchener (1916–2009)

Dr. J.A. Kitchener who died peacefully at his home on 9 March 2009 at age 93 was one of the foremost colloid scientists in the United Kingdom over the past half century. His work was highly regarded and born out of a strong desire to recognize the importance of studying the fundamentals of complex industrial systems, particularly within the area of surface



and colloid chemistry related to mineral processing. Throughout his impeccable career at Imperial College, London, Joe influenced, guided, and educated many international scientists and engineers and was an inspiration to all his colleagues. His work in colloid science covered areas such as dewatering of fine particles, rheological phenomena, selective adsorption of additives (collectors, dispersants, flocculants, etc.) on mineral surfaces, and froth flotation. Early studies into the analysis of surface forces which control the stability of dispersion of minerals led to the first correct measurements of long-range van der Waals forces between macroscopic bodies. This work was carried out in parallel with that of Derjaguin and his group in Russia and resulted in a strong bond between the two men. There was also a long-term interest in thin liquid films and foams encompassing surface forces, film thickness measurements, and structural effects in which he cooperated with Scheludko and his research group in Bulgaria.

Joe Kitchener was born in 1916, during WW 1, in the seaport of Grimsby on the east coast of England where his father, who worked for MI 5 counterespionage services, had been assigned to watch for spies entering the UK. Joe enjoyed telling his family that he was put to sleep in an orange crate because his parents could not afford a cradle. Some years later Joe attended an excellent grammar school in London from 1926 to 1934.

At the conclusion of his secondary education, Joe won an open scholarship to University College, where he skipped the first year of the Bachelor's degree and obtained first class honours in chemistry in 1936. His Ph.D. was completed by June 1938, just three years and nine months after leaving secondary school, a truly outstanding achievement which would be almost impossible today, since most of the grammar schools in the UK, that earlier provided a ladder out of poverty for the bright children from poorer families, are largely a thing of the past. His Ph.D. topic was "Photosensitization by Titanium Dioxide," undertaken under the energetic direction of C.F. Goodeve, a notable physical chemist in the Department of Chemistry headed by Professor F.G. Donnan. The research environment was very stimulating as G.S. Hartley, N.K. Adams, and H. Freundlich had all been recruited by Donnan; thus there was a rich colloid and surface chemistry milieu for a young doctoral student to develop in. At the conclusion of his doctoral studies, Joe was appointed as a Demonstrator in Physical Chemistry at Imperial College, enabling him to combine teaching and independent scientific research. During this period, Joe carried out research into ion exchange which resulted in the well-known monographs "Ion Exchange Resins" (Methuen, London, 1961) and a revised version of "Findlay's Practical Physical Chemistry" (Longman, London, 1954). The revised version was reprinted many times and gives a fascinating glimpse into "old style" physical chemistry experiments (vapour pressure, phase equilibria, etc.) By 1956 he was Reader in Physical Chemistry and was awarded the D.Sc. in 1958 for his eminent contributions to the scientific literature. In 1961 the Department of Mining and Mineral Technology, led by the perceptive Professor M.G. Fleming, lured Joe away from Chemistry and conferred upon him the unique title of "Reader in the Science of Mineral Processing." Joe completed 40 years on the staff of Imperial College in 1978 at which point the

College, coaxed by Fleming, bestowed the coveted title of Senior Research Fellow upon him. Joe enjoyed this role for the next seven years, finally leaving Imperial College in 1985. Joe Kitchener's scientific work, throughout his career, is characterised by brilliant diagnostic experiments, lucid, perceptive interpretations, and a remarkable clear exposition. It is difficult to do full justice to his work without consulting the original literature where one abstracts the full favour.

In his later years, he lived in Tewin Wood, near Welwyn in Hertfordshire, with his gracious wife Phyllis. They also travelled widely in the United Kingdom and involved themselves in a myriad of activities, with Joe still indulging in the occasional scientific foray. He always had his microscope at hand and only last year he was studying an unusual algal bloom on his pond and also kept the lady in the local mobile library very busy with requests for "heavy weight" reference books. Joe was fiercely independent and it was hard to get him to accept help with day to day affairs. He continued driving his car after his 90th birthday and recently taught himself Adobe Photoshop so he could recover old family photos. Like many of his breed, Kitchener was extremely modest and quintessentially unassuming about his career in colloid science. In retirement, when asked what he had done at Imperial College he would answer, "not a lot, did some research and teaching, wrote some papers, that was all there was really."

Joseph Kitchener is survived by a son and two daughters.

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#### Dr. Jan Leja (1918 – 2009)

Jan Leja was born in Grodzisko, Poland, in 1918, into a family of a total of six children. He was raised by his uncle Franciszek Leja, a professor of mathematics at the University of Warsaw and later at the Jagiellonian University in Kraków, Poland. In September 1939, when World War II began, Jan had just completed his second year of undergraduate studies in Metallurgical Engineering at the Academy of Mining and Metallurgy in Kraków. During the first two weeks of the war, he



and his university colleagues chased the mobilization point for the army, which was relocated almost every day with the advancing German army. However, when they were finally enlisted, Poland succumbed to the invasion of the Nazis from the West and the Soviets from the East. Leja then decided to join the Polish Forces in France, but when crossing the demarcation line between German and Soviet-occupied Poland, was arrested by Soviet security and sentenced to 25 years of hard labour in Soviet Gulag Camps near Vorkuta in the Russian Arctic.

After the Nazi attack on the Soviet Union in 1941, incarcerated Poles were given general amnesty to join the Polish Army being formed in the Soviet Union. Jan Leja, weak after two years in the Gulags and suffering from scurvy and dysentery, was allowed to leave the camp. Semiconscious, he literally dragged himself to the train, which took the released prisoners to the Polish Army recruitment centre. Through Iran and Palestine, along with other Polish soldiers, Leja was sent to England. There, he was trained to be a commando to be dropped back into Poland to join the underground Polish Home Army. This program was cancelled due to the advancing Soviet troops just weeks before his scheduled drop.

In October 1943, the Polish Army sent Leja back to school to continue his studies of metallurgy at the Royal School of Mines in London, where he was granted A.R.S.M. and B.Sc. degrees with first class honours in 1945. Two years later, he was also awarded an Engineering Diploma from his Alma Mater in Poland.

After three years as a mill superintendent in the South West Africa Company Mine in Grootfontein, S.W. Africa (today Namibia), Jan Leja enrolled for graduate studies at the Oppenheimer Laboratory at the University of Cambridge. He received his Ph.D. in 1954 for his highly original thesis, "Molecular Interactions at Interfaces, as Applied to Flotation Phenomena." Leja's graduate work with his supervisor, Dr. Jack Shulmann and colleagues at the Royal School of Mines, has dramatically improved our understanding of the synergetic interactions between frothers and collectors and their role in forming a stable attachment between mineral grains and air bubbles in flotation slurry.

In 1957, along with his beloved wife Mary and their four children, Jan Leja moved to Edmonton, Canada, where he joined the Department of Mining and Metallurgy at the University of Alberta. During his sabbatical in 1964, with his family of now six children, he travelled across the USA, visiting several universities, including the Colorado School of Mines, before joining the University of British Columbia in Vancouver, B.C., as Professor of Mineral Process Engineering. He served with distinction there until his retirement in 1983. In 1982, his famous book, "Surface Chemistry of Froth Flotation," was published and shortly became a standard textbook, widely used all over the world.

Jan Leja won several awards for his research and teaching, including a Doctorate Honoris Causa from the Marie Curie-Skłodowska University in Lublin, Poland; the University of British Columbia Walter Gage Teaching Award; and the Canadian Institute of Mining and Metallurgy ALCAN Award. He has authored over 70 scientific papers and several patents on mineral processing.

Jan Leja died of heart failure on November 4<sup>th</sup>, 2009, in Victoria, B.C. I think many of us are thankful for the privilege and pleasure of working with him and for the enjoyment of his friendship.

His family has asked that his friends plant a tree or flower in his memory if they can.

Jan Czarnecki Edmonton, Alberta, Canada

## 7 JOURNALS AND BOOKS

#### Microemulsions

Background, New Concepts, Applications, Perspectives.

Edited by Cosima Stubenrauch.

John Wiley & Sons, Hoboken 2008. 400 pp., ISBN 978-1405167826

This book introduces the topic of microemulsions, a term first introduced more than 50 years ago, and describes the behavior and uses of the three-phase oil/water/surfactant systems that comprise microemulsions. The first chapter introduces the area and covers systems com-posed with ionic and non-ionic surfactants together with a brief consideration of a binary sys-tem. This chapter also includes an interesting discussion on surface tension in microemulsions. Chapter 2 describes analytical scattering techniques, in particular small-angle neutron scattering (SANS), that can be used to analyze the structure and dynamics of microemulsions. Chapter 3 considers the situation that a very small amount of surfactant is able to form a sin-gle phase from much larger amounts of hydrophilic and hydrophobic liquids; also the use of mixed surfactants and optimization of mixing is discussed. Chapter 4 looks at the use of am-phiphilic (such as diblock copolymers) and non-amphiphilic polymers as additives to microe-mulsion systems. Chapter 5 concerns an interesting concept of using microemulsions as confined reaction spaces for organic synthesis; selected examples of how this approach can be applied in industry as a "green" synthesis route are explored. This approach has been under-utilized and this chapter would serve as a useful introduction to researchers in this area. For materials scientists, Chapter 6 would be of most interest as it describes using Microemul-sions as templates for nanomaterials, the use of confined water nanopools or channels for the synthesis of nanosized inorganic compounds including magnetite and photonic cadmium sul-fide and copper sulfides is covered. A notable absence, however, is the inclusion of examples of reverse microemulsions as

templates for bioceramic nanoparticles, such as calcium phos-phate. Chapter 7 looks at recent research into non-aqueous microemulsions including super-critical CO2 based and polar solvent systems and formation of microemulsion glasses for ap-plications that include encapsulation and optics. Chapter 8 would be of interest to industry researchers in particular, as a thorough review of microemulsion usage for cosmetics and detergents is given. Similarly, Chapter 9 would be of interest to industry or researchers inter-ested in the area of drug delivery, as the use and advantages of microemulsion for formula-tions for oral and transdermal delivery are reviewed. Microemulsion template synthesis of nanosized pharmaceutics is also discussed. The following chapter considers the largescale application of microemulsions, including a thorough discussion on the current and future

important application of microemulsions for oil recovery from depleted wells. The book closes with a look at future challenges, including four possible areas for further investigation, and may provide a spur to researchers in this area. The book provides a thorough introduction of

the area with discussions of the physical dynamics of the systems, methods of analysis, and useful and applied microemulsion systems. References are thorough and generally dated up to 2007; the book is well illustrated, has many phase diagrams and EM micrographs, includ-ing freeze-fracture TEM and SEM micrographs of microemulsions. Overall, a good overview of the area is presented. This book would be of interest to postgraduates and industry researchers in areas including healthcare, detergents, and fine-chemical production, and points the way to future research directions for this topic.

Dominic Walsh School of Chemistry University of Bristol (UK)

#### **Colloids and Interfaces with Surfactants and Polymers**

Second Edition Jim Goodwin John Wiley & Sons Ltd, 2009

The first point to note about this book is that is a very easy, and indeed enjoyable text to fol-low. With this said perhaps it is pertinent to briefly give some background to the book. First published in 2004 (First Edition) it was written to fill a much needed gap, and that was the requirement for a thoroughly modern introductory text on colloid and interface science. This was specifically aimed at undergraduates, postgraduates and those who are either new to the topic or need a refresher. This is equally true of the second edition. From personal experience I know that this book has been very well accepted and used by undergraduates and post-graduates alike in this Institution (University of Bristol).

The text is written in a clear unambiguous style of English, it is very descriptive and attempts to introduce topics, where possible, with an industrial perspective. With these examples it is envisaged that most readers will appreciate the context and hence the significance of the subject matter to life experience. The author generally uses a light mathematical touch, giving sufficient detail for the reader to understand the background and roots of the derivations. Rather than give an extensive mathematical critique of the more theoretical subjects the text highlights the critical points and issues when necessary. This is particularly seen, for in-stance, in the sections on scattering methods, chapter 8, and on the theories of colloid forces, chapter 3 and chapter 4. The interesting part about these latter 2 chapters is the inclusion of the calculation strategy, designed to help the reader utilise the model approaches described. What the text book does particularly well is to be particularly descriptive to ensure the reader is au fait with each topic in terms of the physics and physical chemistry. The book actually tells a story but as with any

text book can be dipped into to whichever subject is being investigated.

Whilst the second edition has some minor modifications and alterations there are also some significant additions. These additions reflect the changing face of colloid science, as influenced by both new techniques and by newer topics of colloid interest. Thus, in terms of tech-niques there is a large discourse on the way in which optical microscopy and imaging tech-niques have improved and been used to good effect. Thus, fluorescence microscopy is shown to be a powerful tool for interrogating colloidal bio-systems; confocal laser scanning microscopy is also described in terms of a new tool for examining structure within colloid and bio-colloid systems. The introductory chapter has a good description of the colloid roots of nanoparticles and where the newly promoted properties are finding application. Chapter 2 contains a section describing biopolymers and how this fits into the modern thinking and ap-plication of colloid science. Finally, there are some new additional notes regarding the sedi-mentation of dispersions in chapter 8. This starts to address the perennial problem of storage stability, and introduce the idea of concentrated dispersions sedimentation as a function of particle concentration. This is built on in chapter 9, where the sedimentation of concentrated dispersions is considered also as a function of the colloidal interaction forces of the particles.

This second edition has a much more extensive index than the first edition. This makes it much more of a useful desktop reference text book for its intended readership. Overall, this text is a welcome addition to the colloid community and particularly its intended readership.

Paul Reynolds Bristol Colloid Centre

## 8 NEWSLETTER IDEAS AND INFORMATION

All members are invited to send their suggestions on the contents, scope and other aspects of these Newsletters. Contributions to fostering international contacts are specifically solicited but information on meetings is also very welcome!

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