



*International Association of Colloid
and Interface Scientists*

NEWSLETTER NO. 28

APRIL 1998

COMPILED BY J. LYKLEMA

**INTERNATIONAL ASSOCIATION OF COLLOID
AND INTERFACE SCIENTISTS**

NEWSLETTER NO. 28
April 1998

**1.1 ABOUT THE NEWSLETTER/FROM YOUR NEWS-
LETTER EDITOR**

The main purpose of the Newsletter is the same as that of IACIS, namely to promote international cooperation in colloid and interface science. It is hoped that through these letters colloid and interface scientists become better informed about forthcoming events, developments, and personal news from various countries.

So far, I have edited 28 Newsletters. The task is not too heavy and I receive much help from my secretary, Mrs. Wil Kleijne. Moreover, I am happy to add that many people around the world contribute by supplying items for the next NL. Please continue to keep me informed about relevant meetings, books and developments.

The conference agenda (item 6 of this NL) is not only meant to fill the travel agenda of IACIS members, but also to assist planners to look ahead and avoid overlap. Hence, please keep me posted, even if the plans are only provisional.

1.2 Advertisements in the Newsletter

Conditions for advertisements can be found in Newsletter 26 item 1.2. So far, nobody has seized this opportunity. However, on an exchange basis an advertisement for IACIS appeared in J. Chem. Soc. Faraday Trans. **94**/1 (Jan. 7th, 1998) page xdx.

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 address

Colloid and interface chemistry continues to grow. More and more universities start to give undergraduate courses in surface chemistry and there is an increasing awareness of the importance of the topic in the industrial community. The IACIS, now 20 years old, continues to play an active role as the uniting body in this growing field of science. The IACIS sponsored conferences are the broadest of all meetings in the area of colloid and interface science and the Newsletter is the prime source of information about meetings, personal news, etc. The scientific community remains thankful to the efforts made by our colleagues in Wageningen which has been the hub of the organization all from the beginning.

During July 1997 many of us met at the triennial IACIS sponsored conference which was held in Sofia, Bulgaria. The meeting was very well attended and the scientific programme was of the highest quality. The hard-working organizers, Dotchi Exerowa, Dimo Platikanov and many more from the surface science community in Sofia, did a very fine job. The IACIS Council thanks them and at the same time wishes the organizers of the next meeting, to be held in Bristol, U.K. in the year 2000, the best of luck.

Over the years IACIS has tried in various ways to promote colloid and interface science in countries which for political or other reasons have been in need of external support. At present several academic research laboratories in Eastern and Central Europe can no longer afford to maintain subscription to scientific journals. In order to improve the situation for a few laboratories active in colloid and interface science, the IACIS is now discussing with some key journals in the field about free copies being delivered in return for advertisement space in the Newsletter. It is important that scientists also in these countries are given a chance to keep abreast with the rapid development of our science.

March 1998

Krister Holmberg

3.2 From the Honorary Secretary and Treasurer

3.2.1 IACIS Council Meeting, July 8, 1997, Sofia

This meeting was attended by three (out of four) members of the Standing Committee, seven (out of twelve) Ordinary Members, and three (out of eight) Co-opted Council Members. In addition, Profs. Cosgrove and Vincent, organisers of the 10th ICSCS meeting (Bristol, 2000) were also present.

Four issues were discussed at some length.

- 1) **Possible activities to foster Colloid and Interface Science.** Several options were discussed, such as financial support for students, prizes/awards for best PhD lecture and/or poster, the relation with IUPAC, sponsoring people from poor countries (possibly in co-operation with the UN), making the Newsletter available on the Internet, and proclaiming an official IACIS-lecture. No formal decisions were taken; the Standing Committee was asked to consider some new initiatives (see next report).

- 2) **Marketing IACIS.** Again, several schemes were proposed, including an IACIS flyer to distribute on meetings, free advertisements in journals, and Website activities. The Standing Committee was asked to work out the details.

- 3) **Policy with respect to commercial organisations.** Regularly IACIS is asked to make the membership list available for direct mailing. Usually we only agree when there is "scientific value" for the members (such as important meetings or new journals). Recently, the journal COCIS (Current Opinion in Colloid & Interface Science) offered the option to include COCIS on our regular membership renewal form. Orders for COCIS would then be handled with IACIS as intermediary; in return IACIS would receive a 5% royalty per order, and members a 20% discount on subscription. The Council agrees with this scheme, with the proviso that the administration can handle the extra work. [The administrator does not expect problems here.]

- 4) **Forthcoming ISCSC meetings.** The 10th meeting will be in Bristol; preparations have started. A Website will be installed for distribution of information and for electronic registration.

Possible venues for the 11th meeting (2003) were discussed. China is an option, North America (Canada?) another. Potential organisers still have to be found. [Note added in proof: in September 1997 another option, viz. South America, came into view.] The Standing Committee will pay attention to this matter.

3.2.2 Meeting Standing Committee (SC), July 10, 1997, Sofia

Present: Holmberg, Fleer, and Lyklema (SC), and the local organisers (Platikanov, Exerowal).

- 1) Options for the 11th ICSCS meeting (2003) were discussed, but no definite steps could be taken. Suggestions from IACIS members on this matter are welcome, and will be carefully considered.
- 2) Several journals will be approached for making available free copies for a number of institutes in Eastern and Central Europe. See also the Presidential address in this Newsletter.
- 3) For the next ICSCS meeting we intend to organise a special IACIS lecture; the organisers, after consultation of the SC, will be responsible for the selection.
- 4) Also for the next ICSCS meeting, we will try to set up awards (medals) for the best poster and for the best PhD presentation at the meeting. Participants should be able to indicate in advance whether they participate in (one of) these two competitions; these presentations should not be scheduled on the last day of the meeting. IACIS Council Members will be asked to form the jury.
- 5) A new IACIS flyer will be prepared for distribution on international meetings; it should also be included in the mailings for the Bristol meeting. A provisional text of this flyer is reproduced below.

3.2.3 IACIS Flyer (see next page)

INVITATION TO MEMBERSHIP

Colloid and interface science is of increasing importance both industrially and scientifically. The IACIS, the International Association of Colloid and Interface Scientists, is the organization representing those activities in research and development in the field. Its members come from both academia and industry and the geographical spread is broad.

PURPOSE OF IACIS: To promote international cooperation in colloid and interface science.

ACTIVITIES:

* **Newsletter** published approximately twice a year, containing a description of upcoming meetings in colloid and interface science, IUPAC news, international, regional and personal news, new books and journals, advertisements, and other information of current interest.

* **List of members** updated bi-annually, to keep in global touch with your colleagues.

* IACIS-sponsored meetings.

- The International Conference on Surface and Colloid Science held every three years at locations around the world. The next meeting will be in 2000, in Bristol, U.K. (contact iacis20@bris.ac.uk).

- Other conferences. Each year a few conferences are sponsored or cosponsored by IACIS. IACIS members receive a reduction on the fee of these conferences.

MEMBERSHIP INFORMATION:

The fee is only US\$25 per year. Contact Prof.dr. Gerard Fleer, Dept. of Physical Chemistry and Colloid Science, Wageningen Agricultural University, Dreijenplein 6, NL-6703 HB Wageningen, The Netherlands.

Phone: +31 (317) 482275, fax: +31 (317) 483777, e-mail: fleer@fenk.wau.nl. (E-mail is the preferred way of communication.)

3.2.4 Financial Report September 1996 / 1997

	Balance per September 1, 1996	US\$ 791	f 7,011	f 8,277	total in Dfl total in Dfl
Sponsoring funds 9th ICSCS, Sofia	US\$ 10,500	f 11,466	<u>f 28,266</u>		<u>f 36,543</u>
Receipts					
Membership fee	US\$ 606	f 18,606		f 19,576	
Sponsoring 9th ICSCS	US\$ 6,000			f 9,600	
Interest		f 86		<u>f 86</u>	<u>f 29,262</u>
					f 65,804
Payments					
Sponsoring (Interfaces Against Pollution, Wageningen)				f 1,900	
Bank costs				f 239	
Printing/paper				f 8,474	
Mailing				f 2,339	
Costs (cheques, credit cards)				f 1,162	
Salary secretary				f 3,300	
IUPAC fee				f 110	
Transferred to 9th ICSCS, Sofia (incl. costs)			<u>f 31,574</u>		f 49,098
Rest. sponsor-amounts of 9th ICSCS				<u>f 6,292</u>	
Balance per September 1, 1997	US\$ 653	f 9,369	<u>f 10,414</u>		<u>f 16,706</u>
					f 65,804
Hungarian Funds	HuF 30,229			f 300	<u>f 300</u>
Amounts are rounded.					
Number of members	September 1, 1996		477		
	September 1, 1997		522		

3.2.5 Call for Nominations for President-elect and Ordinary Members of Council 1998-2000

Included with this Newsletter all members receive the material for the new elections. Nominations for the above positions are due before June 1, 1998. Also included is an **updated List of Members**.

Gerard Fleer
Hon. Secretary and Treasurer

4 IACIS-SPONSORED MEETINGS

4.1 International Conferences on Surface and Colloid Science (under auspices of, and sponsored by IACIS)

History: 1st Conference, Budapest, Hungary, 1973
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

Future: 10th Conference, Bristol, U.K., 2000, see item 6.77.

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.
- 5) June - July 1986 Crveni Otok (Yugoslavia) 7th International Summer Conference on the Chemistry of Solid-Liquid Interfaces.
- 6) September 1987 Eindhoven (Netherlands) Polymers in Colloidal Systems: Adsorption, Stability and Flow.
- 7) May 1988 San Benedetto (Italy) X European Chemistry at Interfaces Conference.
- 8) 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 (U.K.), 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 (U.K.) Polymers at Interfaces.

- 17) September 1993, Granada (Spain) Electrokinetic Phenomena '93.
- 18) 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.
- 21) July 1995, Maratea (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 Advanced 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.
- 30) 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.

5 IUPAC NEWS

5.1 Names and Addresses of Officers of IUPAC Bodies (1998-1999) (subject to approval by National Adhering Organizations)

Bureau. *President:* Prof. J. Jortner, Heinemann Chair of Physical Chemistry, School of Chemistry, Tel Aviv University, Ramat Aviv, Tel Aviv 69978, Israel, phone: +972 (3) 641-5218/640-8322, fax: +972 (3) 641-5054, e-mail: jortner@chemsgl.tau.ac.il.

Secretary General: Dr. E.D. Becker, Room 124, Building 5, National Institutes of Health, Bethesda, MD 20892, U.S.A., phone: +1 (301) 496-1024, fax: +1 (301) 496-0825, e-mail: tbecker@sunder.niddk.nih.gov.

Division I: Physical Chemistry. *President:* Prof. T. Cvitas, Rudjer Boskovic Institute, P.O. Box 1016, HR-10001 Zagreb, Croatia, phone: +385 (1) 424-690, fax: +385 (1) 272-648, e-mail: cvitas@olimp.irb.hr.

Secretary: Dr. Gerd M. Olofsson, Termokemi, Kemikentrum, Lunds Universitet, P.O. Box 124, S-221 00 Lund, Sweden, phone: +46 (46) 108-105, fax: +46 (46) 104-533, e-mail: Gerd.Olofsson@termk.lu.se.

Commission I.1: Physicochemical Symbols, Terminology, and Units. *Chairman:* Prof. H.L. Strauss, Department of Chemistry, University of California, Berkeley, CA 94720-1460, U.S.A., phone: +1 (510) 642-7114, fax: +1 (510) 642-6911, e-mail: hls@hafnium.cchem.berkeley.edu.

Secretary: Prof. B. Holmström, Department of Physical Chemistry, University of Göteborg, S-41296 Göteborg, Sweden, phone: +46 (31) 558-194, fax: +46 (31) 772-8073, e-mail: bertilh@phc.chalmers.se.

Commission I.3: Electrochemistry. *Chairman:* Prof. W. Plith, Institut für Physikalische Chemie und Elektrochemie, Technische Universität Dresden, Bergstraße 66b, D-01062 Dresden, Germany, phone: +49 (351) 463-4907, fax: +49 (351) 463-7164, e-mail: plieth@cech01.chm.tu-dresden.de.

Secretary: Dr. C.P. Andrieux, Laboratoire d'Electrochimie Moléculaire, Université de Paris VII, URA CNRS 438, 2 place Jussieu, F-75251 Paris cedex 05, France, phone: +33 (1) 4427-5582, fax: +33 (1) 4427-7625, e-mail: Andreux@Paris7.jussieu.fr.

Commission I.6: Colloid and Surface Chemistry Including Catalysis. *Chairman: Prof. L.K. Koopal, Laboratory for Physical Chemistry and Colloid Science, Wageningen Agricultural University, Dreijenplein 6, NL-6703 HB Wageningen, The Netherlands, phone: +31 (317) 482629/482178, fax: +31 (317) 483777, e-mail: koopal@fenk.wau.nl.*
Secretary: Prof. I Dékány, Department of Colloid Chemistry, Attila József University, Aradi Vértamuk tere 1, H-6720 Szeged, Hungary, phone: +36 (62) 321-347, fax: +36 (62) 312-921, e-mail: i.dekany@chem.u-szeged.hu. (See also 5.2.)

Division IV: Macromolecular. *President: Prof. R.G. Gilbert, School of Chemistry F11, Sydney University Polymer Centre, University of Sydney, Sydney, New South Wales 2006, Australia, phone: +61 (2) 9351-3366, fax: +61 (2) 9351-3329, e-mail: Gilbert@chem.usyd.edu.au.*

Secretary: Dr. W.J. Work, Research Division, Rohm and Haas Co., P.O. Box 219, Bristol, PA 19007, U.S.A., phone: +1 (215) 785-8549, fax: +1 (215) 781-0624, e-mail: rbpwjw@rohmmaas.com.

Commission IV.1: Macromolecular Nomenclature. *Chairman: Prof. R.F.T. Stepto, Polymer Science and Technology Group, Manchester Materials Science Centre, University of Manchester and UMIST, Grosvenor Street, Manchester M1 7HS, U.K., phone: +44 (161) 200-3574/3578, fax: +44 (161) 200-3586 / (1625) 859-004, e-mail: materials.science@umist.ac.uk.*

Secretary: Prof. M. Baron, Departamento de Física, Facultad de Ciencias Exactas y Naturales, Pabellón 1 - Ciudad Universitaria, 1428 Buenos Aires, Argentina, phone: +54 (1) 782-1007, fax: +54 (1) 821-4887, e-mail: baron@df.uba.ar or baron@scdaqa.org.ar.

Commission IV.2: Polymer Characterization and Properties. *Chairman: Dr. D.R. Moore, Petrochemicals and Plastics Division, Imperial Chemical Industries plc, Wilton Centre, F315, P.O. Box 90, Wilton, Middlesbrough, Cleveland TS90 8JE, U.K., phone: +44 (1642) 432-788, fax: +44 (1642) 437-490, e-mail: Roy.Moore@wilton.ici.co.uk.*
Secretary: to be appointed.

Division VI: Chemistry and the Environment. *President: Dr. J. Miyamoto, Sumitomo Chemical Co. Ltd., 5-33 Kitahama 4-chome, Chuo-ku, Osaka, 541 Japan, phone: +81 (6) 220-3152, fax: +81 (6) 220-3350, e-mail: yokonaga@ohprime.sumitomo-chem.co.jp.*
Secretary: Dr. T.R. Roberts, JSC International Ltd., Osborne House, 20 Victoria Avenue, Harrogate, North Yorkshire HG1 5QY, U.K., phone: +44 (1423) 520-245, fax: +44 (1423) 520-297, e-mail: 101573.1440@compuserve.com.

Commission VI.1: Fundamental Environmental Chemistry. *Chairman: Dr. H.P. van Leeuwen, Laboratory for Physical Chemistry and Colloid Science, Wageningen Agricultural University, P.O. Box 8038, 6700 EK Wageningen, The Netherlands, phone: +31 (317) 482-269/-279, fax: +31 (317) 483-777, e-mail: Herman@Fenk.WAU.NL.*
Secretary: Prof. G. Horvai, Division of Chemical Information Technology, Technical University of Budapest, Gellért tér 4, H-1111 Budapest, Hungary, phone: +36 (1) 463-1480, fax: +36 (1) 463-3953, e-mail: horvai@ch.bme.hu.

5.2 News from Commission I.6: Colloid and Surface Chemistry including Catalysis

The most important IUPAC event of the past period was the **39th General Assembly**, held in Geneva, Switzerland, 23-30 August 1997. At this biennial meeting the work done in the past two years is discussed, plans are made for the next two years and the commissions are renewed. Below you find a list of the members of the Commission I.6 and of the main

activities for the period 1997 to 1999. Please feel free to contact me (L. Koopal) or any of the other members if you want to know more about our work or when you are interested in participating in one of the activities. After each of the activities the coordinator is indicated, addresses you find in the member list. For reprints of the documents produced by Commission I.6 you may contact Jean Rouquerol (Marseilles, France; fax: +33 9128-2053).

Titular members:

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Collège de France, Paris, France.
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Colloid and Surface Chemistry

- *Interpretation and Measurement of Electrokinetic Phenomena* (Koopal). Recommendations for the calculation of zeta potentials and the role of surface conductivity in these calculations will be of great practical value for many scientists using zeta potentials. At the Electrokinetic Phenomena Conference in Salzburg (April 14 -17, 1998) a special IUPAC workshop will be held to discuss the problems and to establish a working party. At the workshop the invited speakers of the conference will briefly introduce the various issues that can be raised.

- *Recommendations for the use of Atomic Force Microscopy in the Direct Measurements of Colloidal Forces* (Ralston). A feasibility study that should be focused on colloidal interactions is proposed. The AFM technique offers the possibility to measure surface forces between colloid particles.

- *Colloidal stability and flow properties of concentrated dispersions*. The outline of a feasibility study will be proposed by Rosenholm. The project has relevance for ceramics and many other fields where concentrated suspensions are used.

Surface Chemistry and Catalysis

- *Glossary of terms in the photocatalysis (and radiation catalysis)* (Parmon). This suggested feasibility study is important to avoid confusion in photocatalysis nomenclature, but overlap with running or imminent projects of other IUPAC commissions must be excluded.

- *Manual of methods and procedures for characterization of catalysts in situ conditions* (Parmon). This study is supposed to extend a previous manual by J. Haber (Pure Appl. Chem. 1995), a precursor document stating the new aspects will be prepared first.

Subcommittee on Environmental Protection

- After the meetings on *Colloids in the Aquatic Environment* (Gregory, London 1992, proceedings: *Colloids Surfaces A*, 73, 1993), *Soil Pollution* (Iyer, Madras 1994), and *Environmental Catalysis* (Misono, Tokyo 1995, proceedings: *Catalysis Today*, 35, 1-2, 1997) the commission has been involved in the meeting *Interfaces against Pollution* (Koopal, Wageningen 1997, proceedings will be published in *Colloids Surfaces A*, 1998). Future actions may include:
 1. *Electrocatalysis at the solid/liquid interface or Colloid and Electrochemistry for the Environment* (Koopal). Such a meeting, in collaboration with the Commission on Electrochemistry, could be the next after the Wageningen conference.
 2. *Colloid chemical aspects of in-plant remediation* (Mal).
 3. *Membrane separation processes* (Ma).

Subcommittee on Advanced Materials

- The project *Manual of methods and procedures for catalyst characterization* (Delmon), is completed, see *Pure Applied Chem.*, 67, 1257-1306, 1995.
- The project *Pillared clays and pillared layers* (Schoonheydt) is focused on nomenclature and characterization and is forwarded for final refereeing.
- The project *Nomenclature of structural and compositional characteristics of ordered microporous materials* (Unger, Liebau, Delmon, Schoonheydt) is almost complete and has a strong materials emphasis.
- At the international meeting "Powder characterization for advanced materials manufacture" (Delmon, Gijón, Spain, 1997) a discussion was held regarding an action on *Nomenclature and Recommendations for the Characterization of Powders for Advanced Materials*

Manufacture. Several attendees of the meeting were willing to contribute to this action. Therefore, a feasibility study on this activity is proposed (Delmon, Torrecillas, Pajares).

- The study *Recommendation for the Characterization of Inorganic Membranes* (Barbosa, Dekany) will be continued in cooperation with the Commission on Functional Polymers that just finished a project on membrane nomenclature.

Collaboration

- Several projects of Commission I.6 are connected with the preparation or characterization of new advanced materials. This domain is not exclusively that of our commission and collaboration with other Commissions is important. In general IUPAC wants to give special attention to *new materials* and this has led to a "horizontal" limited lifetime Commission, consisting of a group of key members appointed by the Commissions involved. This group will act as a strategic platform for material science. For Commission I.6 the previous chairman, John Ralston, is our key member in this new commission.

- Other fields of collaboration emerge with the Commissions on Electrochemistry (e.g., electrochemistry at interfaces, see also above, nanostructures, poisons for catalysts), Fundamental Environmental Chemistry (see above) and Biophysical Chemistry (e.g., microcalorimetric techniques, the role of adsorption at interfaces, terminology of liquid vesicles and membranes). For these matters Koopal and Kunitake are the contact persons.

Wageningen, March 1998

Luuk Koopal

5.3 News from IUPAC Commission VI.1: Fundamental Environmental Chemistry.

The major activity of the commission is its book series on Analytical and Physical Chemistry of Environmental Systems. Volumes 4 and 5, on Soil Particles and Atmospheric

Particles respectively, are in the press at John Wiley's. At the 1997 GA in Geneva, four new book projects were initiated:

1. In-situ Monitoring (coordinators: Horval and Buffle);
2. Biogeochemistry of Iron (coordinators: Turner and Hunter; joint with SCOR);
3. Physical Chemistry of Microbial Behavior in Environmental Systems, with emphasis on transport processes (coordinators: Blust and Zehnder);
4. Interactions between Soil Particles and Microorganisms (coordinators: Huang, Bollag and Senesi).

The projects 1 and 2 have effectively started late 1997. The other two will follow in the course of 1998.

The commission was extended with two permanent titular members, Prof. L. Charlet from Grenoble and Prof. M. Elimelech from UCLA, and two temporary ones: dr. Blust from Antwerpen and Prof. Zehnder from Dübendorf. The commission was also successful in obtaining extra financial support from IUPAC and from ICSU.

Dr. Herman P. van Leeuwen,
commission chair

6 CONFERENCES

NOTE 1. If information is already given in a previous Newsletter, it will be repeated here, though under a different number.

NOTE 2. I have refrained from including commercial courses, realizing that the distinction between them and non-subsidized (either/or not advanced) courses is not always unambiguous.

NOTE 3. We cannot accept any responsibility for omissions or errors, although of course the information is checked to the best of our knowledge.

6.1 215th ACS National Meeting. 29 March - 3 April 1998, Dallas, Texas, U.S.A. The symposia of the Division of Colloid and Surface Chemistry include:

- Nonequilibrium Dynamic Processes at Colloidal Interfaces.
 - Electrochemical Surface Science: Electrochemistry at Nanostructures Materials.
 - Reactions in Compartmentalized Liquids.
 - Heterogeneous Catalytic Studies under Reaction Conditions.
 - Characterization of Mixed Metal Oxides.
 - Thermodynamics of Polymer Blends.
- Contact: D.D. Miller, Eastman Kodak Company, 1700 Dewey Avenue, Rochester, NY 14650-1909, U.S.A., phone: +1 (716) 588-8146, fax: +1 (716) 588-2717, e-mail: ddmiller@kodak.com.

6.2 Biocolloids. 6-8 April 1998, East Anglia, U.K. Organised by the Colloid and Interface Science Group of the Faraday Division of the Royal Society of Chemistry. Contact: P.A. Williams, North East Wales Institute, Plas Coch, Mold Road, Wrexham, LL11 2AW, U.K., phone: +44 (1978) 293-083, fax: +44 (1978) 200-008, e-mail: williams@newl.ac.uk.

6.3 Particulate Fluids: Interparticle forces in the flow of colloidal dispersions (a two day special conference

honouring Richard Buscall and Lee White), 7-8 April 1998, Melbourne, Australia. Contact: T.W. Healy, phone: +61 (3) 9344-6481, fax: +61 (3) 9344-6233, e-mail: m.barker@chemistry.unimelb.edu.au.

6.4 **Electrokinetic Phenomena '98**, 14-17 April 1998, Salzburg, Austria. Contact: V. Ribitsch, Karl-Franzens-Universität Graz, Institut für Physikalische Chemie, Heinrichstraße 28, A-8010 Graz, Austria, phone: +43 (316) 380-5418, fax: +43 (316) 380-9850, e-mail: ekp98@kfunigraz.ac.at.

6.5 **Plasticity of Materials: Fundamentals, Modeling and Applications**, 25-30 April 1998, Granada, Spain. Contact: J. Hendekovic, European Science Foundation, 1 quai Lezay-Marnésia, F-67080 Strasbourg cedex, France, phone: +33 (3) 8876-7135, fax: +33 (3) 8836-6987, e-mail: euresco@esf.org, <http://www.esf.org/euresco>.

6.6 **Gordon Research Conference on Complex Fluids II**, 3-9 May 1998, Ciaccio, Italy. Contact: E. Sackmann, Department of Physics, University of Munich, Germany, fax: +49 (89) 2891-2469, e-mail: sackmann@physik.tu-muenchen.de.

6.7 **38th International Detergency Conference**, 5-7 May 1998, Krefeld, Germany. Contact: wfk-Research Institute for Cleaning Technology, P.O. Box 130762, D-47759 Krefeld, Germany, phone: +49 (2151) 770-072, fax: +49 (2151) 770-075, e-mail: info@wfk.de, <http://www.wfk.de>.

6.8 **Detergency and Cosmetics** (28th Annual Meeting of the Comité Español de la Detergencia, Tensioactivos y Afines), 6-8 May 1998, Barcelona, Spain. Contact: CED, Jordi Girona 18-26, E-08034 Barcelona, Spain, phone: +34 (3) 204-0212/400-6100, fax: +34 (3) 280-5300, e-mail ced@cid.cesic.es.

6.9 **European Workshop on Organisation in Polymer-Surfactant Systems**, 11-14 May 1998, Amalfi (Sa), Italy.

IACIS-sponsored; members receive a discount on the conference fee. Contact: C. La Mesa, Dipartimento di Chimica, Università "La Sapienza", P.le Aldo Moro 5, 00185, Rome, Italy, phone: +39 (6) 4991-3707, fax: +39 (6) 490-631, e-mail: lamesa@axrma.uniroma1.it, <http://daprano4.chem.uniroma1.it/>.

6.10 **15ème Colloque National de Chromatographie d'Exclusion Sterique: 8ème Journées de Biochromatographie**, 12-13 May 1998, Le Mans, France. Contact: J.P. Busnel, Faculté des Sciences, Avenue O. Messiaen, F-72085 Le Mans cedex 9, France.

6.11 **12th International Symposium on Bonding and Sealing Technology (Swiss Bonding 98): Hybrid-Bonded Structures**, 12-14 May 1998, Rapperswil am Zürichsee, Switzerland. Contact: Ac.E.H. Schindel-Bidinelli, VDI, Ulmenstraße 6, D-26689 Apen-Augustfehn, Germany, phone: +49 (4489) 940-158, fax: +49 (4489) 410-206.

6.12 **Euroconference on Nanoscience and Nanotechnology**, 16-19 May 1998, Hindsgavl, Denmark. Contact: KongressBureau Fyn, Svendborgvej 83-85, DK-5260 Odense S, Denmark, phone: +45 (66) 127-530, fax: +45 (66) 131-338.

6.13 **9th International Coating Science and Technology Symposium**, 17-20 May 1998, Newark DE, U.S.A. Contact: G.J. Amundson, University College, University of Minnesota, 207 Nolte Center, 315 Pillsbury Drive S.E., Minneapolis, MN 55455-0139, U.S.A., phone: +1 (612) 625-3504, fax: +1 (612) 626-1632, e-mail: gamundso@mail.cee.umn.edu.

6.14 **97. Hauptversammlung der Deutschen Bunsengesellschaft (Bunsentagung 1998): Physikalische Chemie der Gele und Netzwerke**, 21-23 May 1998, Münster, Germany. Contact: H. Hoffmann, Universität Bayreuth, Lehrstuhl für Physikalische Chemie, P.O. Box 3008, D-8580 Bayreuth, Germany, phone: +49 (921) 552-

760, fax: +49 (921) 552-780, e-mail: heinz.hoffmann@uni-bayreuth.de.

6.15 **Cluster-Surface Interactions: Fundamentals**, 23-28 May 1998, Cargèse (Corsica), France. Contact: J. Hendekovic, European Science Foundation, 1 quai Lezay-Marnésia, F-67080 Strasbourg cedex, France, phone: +33 (3) 8876-7135, fax: +33 (3) 8836-6987, e-mail: euresco@esf.org, http://www.esf.org/euresco.

6.16 **6th International Conference on Fundamentals of Adsorption FOA6**, 24-28 May 1998, Giens, France. Contact: FOA6, LIMSI-CNRS, P.O. Box 133, F-91403 Orsay cedex, France, fax: +33 (1) 6985-8088, e-mail: foa6@limsi.fr, http://ias.vub.ac.be or www.limsi.fr/WkG/fads.

6.17 **7th European Conference on ElectroAnalysis ESEAC'98**, 24-28 May 1998, Coimbra, Portugal. Contact: C.M.A. Brett, Departamento de Química, Universidade de Coimbra, P-3049 Coimbra, Portugal, phone/fax: +351 (39) 35295, http://www.ci.uc.pt/eseac98.

6.18 **DECHEMA Jahrestagungen '98**, 26-28 May 1998, Wiesbaden, Germany. Contact: DECHEMA (Deutsche Gesellschaft für Chemisches Apparatewesen, Chemische Technik und Biotechnologie e.V.), P.O. Box 150104, D-60061 Frankfurt am Main, Germany, phone: +49(69) 756-4384, fax: +49 (69) 756-4176, e-mail: nick@dechema.de.

6.19 **50th Yamada Conference and 2nd International Symposium on Polyelectrolytes: Polyelectrolytes '98**, 31 May - 3 June 1998, Inuyama, Japan. Contact: E. Kokufuta, fax: +81 (298) 534-605, e-mail: kokufuta@sakura.cc.tsukuba.ac.jp, http://www.apchem.nagoya-u.ac.jp/butsu4/PE98.html.

6.20 **6th Wolfgang-Ostwald-Kolloquium der Kolloid-Gesellschaft "Horizonte 2000": Aspects of Colloid and Interface Science at the Turn of the Millennium, in Honour of the 60th Birthday of Prof.Dr.Dr.h.c. Milan Johann Schwuger**, 4-6 June 1998, Jülich, Germany, and **3. Nachwuchstagen der Kolloid- und Grenzflächen-**

forschung, 3-4 June 1998, Jülich, Germany. Contact: F.-H. Hägel, Forschungszentrum Jülich GmbH, ICG-7, D-52425 Jülich, Germany, phone: +49 (2461) 616-919, e-mail: f.h.haegel@fz-juelich.de.

6.21 **12th International Symposium on Surfactants in Solution**, 7-11 June 1998, Stockholm, Sweden. Contact: Stockholm Convention Bureau SIS-98, P.O. Box 6911, SE-102 39 Stockholm, Sweden, phone: +46 (8) 736-1500, fax: +46 (8) 348-441, e-mail: stocon@stocon.postnet.se.

6.22 **4th International Conference on Nanostructures Materials NANO'98**, 14-19 June 1998, Stockholm, Sweden. Contact: A. Norrthon, Royal Institute of Technology, SE-100 44 Stockholm, Sweden, phone/fax: +46 (8) 790-9072, e-mail: nano98@kth.se.

6.23 **Fundamental Aspects of Surface Science: Elementary Processes in Surface Reactions**, 20-25 June 1998, Aquafredda di Maratea, Italy. Contact: J. Hendekovic, European Science Foundation, 1 quai Lezay-Marnésia, F-67080 Strasbourg cedex, France, phone: +33 (3) 8876-7135, fax: +33 (3) 8836-6987, e-mail: euresco@esf.org, http://www.esf.org/euresco.

6.24 **72nd Colloid and Surface Science Symposium**, 21-24 June 1998, University Park, Pennsylvania, U.S.A. Contact: N. Nagarajan, 158 Fenske Laboratory, The Pennsylvania State University, University Park, PA 16802-4400, U.S.A., phone: +1 (814) 863-1973, fax: +1 (814) 865-7846, e-mail: RXN@EMAIL.PSU.EDU.

6.25 **Gordon Research Conference on Nanostructure Fabrication**, 21-26 June 1998, Tilton, New Hampshire, U.S.A. Contact: Gordon Research Conferences, University of Rhode Island, P.O. Box 984, West Kingston, RI 02892-0984, U.S.A., phone: +1 (401) 783-4011, fax: +1 (401) 783-7644, e-mail: app@grmail.grc.uri.edu (application form) or grc@grmail.grc.uri.edu (general information), http://www.grc.uri.edu/.

6.26 **Workshop on Giant Vesicles**, 21-26 June 1998, Monte Verità, Switzerland. Contact: P. Walde, Institut für Polymere, ETH Zentrum, Universitätsstraße 6, 8092 Zürich, Switzerland, phone: +41 (1) 632-3114, fax: +41 (1) 632-1073, e-mail: walde@ifp.mat.ethz.ch.

6.27 **Symposium on Electronic Processes in Inorganic Compounds**, 22-23 June 1998, London, U.K. Contact: J.F. Gibson, The Royal Society of Chemistry, Burlington House, Piccadilly, London W1V 0BN, U.K.

6.28 **8th International Conference on Polymer Based Technologies**, 23 June - 3 July 1998, Jerusalem, Israel. Contact: A. Warshawsky, fax: +972 (8) 934-4142, e-mail: cowarsha@weizmann.weizmann.ac.il.

6.29 **3rd World Congress on Particle Technology**, 7-9 July 1998, Brighton, U.K. Incorporating the **3rd Biennial Particle Technology Forum of the AIChE**. Contact: J. Black, Conference Section IChemE, 165-189 Railway Terrace, Rugby CV21 3HQ, U.K., phone: +44 (1788) 578-214, fax: +44 (1788) 577-182, e-mail: jblack@icheme.org.uk.

6.30 **3rd International Symposium Effects of Surface Heterogeneity in Adsorption and Catalysis on Solids**, 12-19 July 1998, Torun, Poland. Contact: W. Rudzinski, Department of Theoretical Chemistry UMCS, 20-031 Lublin, Poland, phone: +48 (81) 537-5633, fax: +48 (81) 537-5685, e-mail: Rudzinsk@hermes.umcs.lublin.pl.

6.31 **37th International Symposium on Macromolecules MACRO'98**, 13-17 July 1998, Gold Coast, Queensland, Australia. Contact: MACRO '98 AUSTRALIA, Chemistry Department, The University of Queensland, Brisbane, Qld. 4072, Australia, fax: +61 (7) 365-3628.

6.32 **17ème Colloque International sur les Cristaux Liquides**, 19-24 July 1998, Strasbourg, France. Contact: ILCC98, IPCMS GMO, 23 rue du Loess, F-67037 Strasbourg cedex, France, phone: +33 (3) 8810-7159, fax: +33 (3) 8810-

7246, e-mail: ilcc98@michelangelo.u-strasbg.fr, <http://www-ipcms.u-strasbg.fr/ilcc98/>.

6.33 **Gordon Research Conference on Chemistry at Interfaces**, 19-24 July 1998, Meriden, New Hampshire, U.S.A. Contact: Gordon Research Conferences, University of Rhode Island, P.O. Box 984, West Kingston, RI 02892-0984, U.S.A., phone: +1 (401) 783-4011, fax: +1 (401) 783-7644, e-mail app@grmail.grc.uri.edu (application form) or grc@grmail.grc.uri.edu (general information), <http://www.grc.uri.edu/>.

6.34 **18th Discussion Conference of Macromolecules: Mechanical Behaviour of Polymeric Materials**, 20-23 July 1998, Prague, Czech Republic. Contact: J. Lukás, Institute of Macromolecular Chemistry, Academy of Sciences of the Czech Republic, Heyrovského nám 2, CZ-16206 Prague 6 Petriny, Czech Republic, phone: +420 (2) 360-341, fax: +420 (2) 367-981, e-mail: sympo@imc.cas.cz.

6.35 **20th International Conference on Statistical Physics STATPHYS 20**, 20-24 July 1998, Paris, France. Contact: STATPHYS 20, Service de Physique Théorique, CEA-Saclay, F-91191 Gif-sur-Yvette cedex, France, e-mail: statphys@spht.saclay.cea.fr., <http://www.lptl.jussieu.fr/statphys/>.

6.36 **12th International Conference on Crystal Growth**, in conjunction with **10th International Conference on Vapor Growth and Epitaxy**, 26-31 July 1998, Jerusalem, Israel. Contact: Conference Secretariat, International Travel and Congresses Ltd., P.O. Box 29313, 9 Rothschild Boulevard, Tel Aviv 61292, Israel, phone: +972 (3) 510-2538, fax: +972 (3) 516-0604, e-mail: 100264.2432@CompuServe.COM, <http://www.technion.ac.il/~iccg12>.

6.37 **Gordon Research Conference on The Physics and Chemistry of Water and Aqueous Solutions**, 2-6 August 1998, Plymouth, New Hampshire, U.S.A. Contact: M.-C. Belissent-Funel (e-mail: mcbel@ball.saclay.cea.fr), G. Stanley (e-mail: hes@bu.edu) or J. Teixeira (e-mail:

teix@bali.saclay.cea.fr), Laboratoire Léon Brillouin, CEA/Saclay, F-91191 Gif-sur-Yvette, fax: +33 (1) 6908-8261.

6.38 Gordon Research Conference on Science of Adhesion, 2-7 August 1998, Tilton, New Hampshire, U.S.A. Contact: Gordon Research Conferences, University of Rhode Island, P.O. Box 984, West Kingston, RI 02892-0984, U.S.A., phone: +1 (401) 783-4011, fax: +1 (401) 783-7644, e-mail: app@grmail.grc.uri.edu (application form) or grc@grmail.grc.uri.edu (general information), <http://www.grc.uri.edu/>.

6.39 8th International Symposium on Solubility Phenomena, 5-8 August 1998, Niigata, Japan. Contact: H. Akaiwa, Faculty of Engineering, Gunma University, Kiryu 376, Japan.

6.40 4th International Symposium on Environmental Geotechnology and Global Sustainable Development, 9-12 August 1998, Boston, Massachusetts, U.S.A. Contact: V.O. Ogunro, Center for Environmental Engineering Science and Technology CEEST, University of Massachusetts, North Campus, Rm E-114, One University Avenue, Lowell, MA 01854, U.S.A., phone: +1 (978) 934-3185, fax: +1 (978) 934-4014, e-mail: ogunrov@woods.uml.edu.

6.41 12th International Conference on Photochemical Conversion and Storage of Solar Energy, 9-14 August 1998, Berlin, Germany. Contact: Secretariat IPS-12, Hahn-Meitner-Institut Berlin, Department of Physical Chemistry, Glienickerstraße 100, D-14109 Berlin, Germany.

6.42 3rd International Symposium on Effects of Surface Heterogeneity in Adsorption and Catalysis on Solids, 9-16 August 1998, Toruń, Poland. Contact: W. Rudzinski, Faculty of Chemistry UMCS, Department of Theoretical Chemistry, 20-031 Lublin, Poland.

6.43 216th ACS National Meeting, 23-27 August 1998, Boston, U.S.A. The symposia of the *Division of Colloid and Surface Chemistry* include:

- Characterization and Application of Colloid Systems. In Honor of the Retirement of Professor R.L. Rowell.
 - Apparent and Microscopic Contact Angles.
 - Associating Polymers in Aqueous Media.
 - Physical Properties of Polymeric Interfaces and Thin Films.
 - Microscopy Techniques in Bio-Interfacial Science.
 - Photochemistry in Organized Molecular Assemblies.
 - Association Colloids as Living Polymers.
 - Dynamics of Surfactant Solution Spreading.
 - Poster Session: Fundamentals of Colloid and Surface Chemistry.
 - Catalysis Secretariat (CATL): Catalysis with Designed Materials.
 - Materials Chemistry Secretariat (MTLS): Symposium on Fine Particles and Fine Particle Synthesis.
- Contact: D.D. Miller, Eastman Kodak Company, 1700 Dewey Avenue, Rochester, NY 14650-1909, U.S.A., phone: +1 (716) 588-8146, fax: +1 (716) 588-2717, e-mail: ddmiller@kodak.com.

6.44 The General Conference of the Condensed Matter Division of the European Physical Society CMD-EPS 17 and Les Journées de la Matière Condensée de la Société Française de Physique JMC6, 25-29 August 1998, Grenoble, France. There will be a symposium on adhesion, wetting and contact angles. Contact: The Conference Secretariat, Laboratoire Louis Néel, P.O. Box 166, F-38042 Grenoble cedex 9, France, phone: +33 (4) 7688-9002, fax: +33 (4) 7688-9004, e-mail: cmd17@polycnrs-gre.fr, <http://www.polycnrs-gre.fr/eps/html>.

6.45 IVC14/ICSS10/NANO5/QSA10 (14th International Vacuum Congress / 10th International Conference on Solid Surfaces / 5th International Conference on Nanometer-scale Science and Technology / 10th International Conference on Quantitative Surface Analysis), 30 August - 4 September 1998, Birmingham, U.K. Contact: The Congress Secretariat, The Institute of Physics, 76 Portland Place, London W1N 3DH, U.K., phone: +44 (171) 470-4800, fax: +44

(171) 470-4900, e-mail: ivc98@iop.org, <http://www.iop.org/IOP/Confs/IVC>.

6.46 **International Symposium on Silica: SILICA from S(Synthesis) to A(Application)**, 1-4 September 1998, Mulhouse, France. Contact: B. Haidar, Institut de Chimie des Surfaces et Interfaces CNRS, P.O. Box 2488, F-68057 Mulhouse cedex, France, phone: +33 (3) 8960-8806, fax: +33 (3) 8960-8799, e-mail: B.Haidar@univ-mulhouse.fr.

6.47 **International Seminar on Surfactants/Detergents '98**, 4-8 September 1998, Hangzhou, P.R. China. Contact: Ms. Wang Yan, China Research Institute of Daily Chemical Industry, 34 Wenyuan Street, Taiyuan, Shanxi, P.R. China 030001, phone: +86 (35) 4128-323, fax: +86 (35) 1406-4237.

6.48 **Novel Surfactants: Structure-Function Relationships**, 7-9 September 1998, Wrexham, Wales, U.K. Organised by the Colloid and Interface Science Group of the Faraday Division of the Royal Society of Chemistry. Contact: I.D. Robb, North East Wales Institute, Mold Road, Wrexham, LL11 2AW, U.K., phone: +44 (1978) 293-133, fax: +44 (1978) 290-008, e-mail: robbi@newl.ac.uk.

6.49 **International Symposium on Self-Assembly of Amphiphilic Systems**, 13-17 September 1998, Dresden, Germany. Contact: H.-D. Dörfler, Technische Universität Dresden, Lehrstuhl für Kolloidchemie, Mommsenstraße 13, D-01062 Dresden, Germany, phone: +49 (351) 463-7638/-4886, fax: +49 (351) 463-7107.

6.50 **6th Symposium on Colloid and Surface Chemistry**, 14-16 September 1998, Timisoara, Romania. Contact: G. Popescu, Research Center for Macromolecular Materials and Membranes, Splaiul Independentei nr. 206 sector 6, P.O. Box 15143, 79611 Bucharest, Romania, phone: +40 (1) 638-4650, fax: +40 (1) 212-9131.

6.51 **European Conference on Organised Films ECOF 7**, 14-18 September 1998, Potsdam, Germany.

Contact: L. Brehmer, University of Potsdam, Institute of Solid State Physics, P.O. Box 601553, D-14415 Potsdam, Germany, fax: +49 (331) 977-1083, e-mail: brehmer@rz.uni-potsdam.de.

6.52 **12th Conference of the European Colloid and Interface Society (ECIS98)**, 20-25 September 1998, Dubrovnik-Cavtat, Croatia. Contact: D. Tezak, Department of Chemistry, Faculty of Science, University of Zagreb, Marulicev Trg 29, P.O. Box 163, HR-10001 Zagreb, Croatia, e-mail: djurdjica.tezak@zg.tel.hr.

6.53 **GVC-Jahrestagung 1998: Prozeß- und Umwelttechnik**, 30 September - 2 October 1998, Freiburg, Germany. Contact: GVC.VDI-Gesellschaft Verfahrenstechnik und Chemieingenieurwesen, P.O. Box 101139, D-40002 Düsseldorf, Germany, phone: +49 (211) 621-4257, fax: +49 (211) 621-4162.

6.54 **International Conference on Colloid Chemistry and Physical-Chemical Mechanics dedicated to the centennial of the birthday of P.A. Rehbinders**, 4-8 October 1998, Moscow, Russia. **IACIS sponsored; members will receive a discount.** Contact: N.B. Uriev, Institute of Physical Chemistry, Leninsky prospect 31, 117915 Moscow, Russia, phone: +7 (095) 955-4642/-4679, fax: +7 (095) 952-5308, e-mail: Rehbinder98@rehb.chem.msu.su, <http://www.chem.msu.su>.

6.55 **4th World Conference and Exhibition on Detergents: Strategies for the 21st Century**, 4-8 October 1998, Montreux, Switzerland. Contact: Meetings and Exhibits Department, AOCS, P.O. Box 3489, Champaign, IL 61826-3489, U.S.A., phone: +1 (217) 359-2344, fax: +1 (217) 351-8091, e-mail: meetings@aocs.org.

6.56 **15th European Chemistry at Interfaces Conference**, 18-23 October 1998, Jerusalem, Israel. **Note change of dates.** Contact: S. Magdassi, The Hebrew University of Jerusalem, Casali Institute of Applied

Chemistry, Givat Ram Campus, Jerusalem 91904, Israel, phone: +972 (2) 658-4967, fax: +972 (2) 652-8250, e-mail: magdassi@cc.huji.ac.il.

6.57 **Thin Films and Foams**, 3 November 1998, London, U.K. Organised by the Society of Chemical Industry. Contact: J.H. Clint, e-mail: j.h.clint@chem.hull.ac.uk, or T. Cosgrove, School of Chemistry, University of Bristol, Cantock's Close, Bristol BS18 1 TS, U.K., phone: +44 (117) 928-7663, fax: +44 (117) 925-0612, e-mail: terence.cosgrove@bristol.ac.uk.

6.58 **7th Wolfgang-Ostwald-Kolloquium der Kolloid-Gesellschaft on Colloidal Organic/Inorganic Composites**, 19-21 November 1998, Berlin, Germany. Contact: H. Möhwald, Max-Planck-Institut für Kolloid- und Grenzflächenforschung, Rudower Chaussee 5, D-12489 Berlin, Germany, phone: +49 (30) 6392-3102, e-mail: moehwald@mpikg.fta-berlin.de.

6.59 **Microcrystallisation and Colloidal Precipitation**, 20 November 1998, London, U.K. Organised by the Society of Chemical Industry. Contact: D.J. Wedlock, e-mail: d.j.wedlock@msmail.sailtho.simis.com, or T. Cosgrove, School of Chemistry, University of Bristol, Cantock's Close, Bristol BS18 1 TS, U.K., phone: +44 (117) 928-7663, fax: +44 (117) 925-0612, e-mail: terence.cosgrove@bristol.ac.uk.

6.60 **Rheology of Colloidal Dispersions**, 11 December 1998, Bristol, U.K. Organised by the Colloid and Interface Science Group of the Faraday Division of the Royal Society of Chemistry to commemorate Jim Goodwin's 60th birthday. Contact: B. Vincent, School of Chemistry, University of Bristol, Cantock's Close, Bristol BS8 1TS, U.K., phone: +44 (117) 982-8160, fax: +44 (117) 925-0612, e-mail: Brian.Vincent@bris.ac.uk.

6.61 **Molecular Interactions of Biomembranes** (General Discussion 111 of the Faraday Division of the Royal Society of Chemistry), 16-18 December 1998, Bristol, U.K. Contact: S. Riaz, The Royal Society of Chemistry, Burlington

House, Piccadilly, London W1V 0BN, U.K., phone: +44 (117) 9437-8656, fax: +44 (117) 9734-1227, e-mail: Riazs@rsc.org.

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6.62 **International Workshop on Particles and Surfaces: Fundamentals, Techniques and Applications**, 13-16 March 1999, Oud Poelgeest near Leiden, The Netherlands. Contact: G.J.M. Koper, Leiden Institute of Chemistry, Leiden University, Gorlaeus Laboratories, P.O. Box 9502, NL-2300 RA Leiden, The Netherlands, phone: +31 (71) 527-4239, fax: +31 (71) 527-4397, e-mail: koper-g@chem.leidenuniv.nl.

6.63 **217th ACS National Meeting**, 21-25 March 1999, Anaheim, U.S.A. The symposia of the *Division of Colloid and Surface Chemistry* include:

- Modeling Supported Catalysis in Surface Science.
- Chemical Strategies to Transform Toxic and Hazardous Materials - A Memorial to Reg Seiders.
- Surface Analysis for the New Millennium.
- Molecular Tribology.
- Poster Session: Fundamentals of Colloid and Surface Chemistry.

Contact: D.D. Miller, Eastman Kodak Company, 1700 Dewey Avenue, Rochester, NY 14650-1909, U.S.A., phone: +1 (716) 588-8146, fax: +1 (716) 588-2717, e-mail: ddmiller@kodak.com.

6.64 **Chemistry in the Mesoscopic Regime** (General Discussion 112 of the Faraday Division of the Royal Society of Chemistry), 12-14 April 1999, Port Sunlight, U.K. Contact: M. Lal, Unilever Research, Port Sunlight Laboratory, Bebington, Wirral, Merseyside L63 3JW, U.K., e-mail: Moti.Lal@unilever.com.

6.65 **5th International Symposium on the Characterisation of Porous Solids COPS-V**, 30 May - 2 June 1999, Heidelberg, Germany. Contact: I. Langguth or R. Strauß, DECHEMA e.V. Congress Office, P.O. Box 150104, D-60061

Frankfurt/Main, Germany, phone: +49 (69) 756-4254 or 756-4249, fax: +49 (69) 756-4176, e-mail: tagungen@dechema.de, <http://dechema.de/cops>.

6.66 73rd Colloid and Surface Science Symposium, June 1999, Cambridge, Massachusetts, U.S.A. Contact: P.A. Libinis or T.A. Hatton, Department of Chemical Engineering, Massachusetts Institute of Technology, 77 Massachusetts Avenue, Room 66-558, Cambridge, MA 02139, U.S.A., phone: +1 (617) 253-4975, fax: +1 (617) 258-8224, e-mail: tahatton@MIT.EDU.

6.67 4th Liquid Matter Conference, 3-7 July 1999, Granada, Spain. Contact: R. Hidalgo-Álvarez, Departamento de Física Aplicada, Universidad de Granada, Campus de Fuentenueva, E-18071 Granada, Spain, phone: +34 (58) 243-213, fax: +34 (58) 243-214, e-mail: liquid99@ugr.es. The symposia include:

- Liquid Crystals
- Polymers, Polyelectrolytes and Gels
- Colloids, Surfactants, Emulsions and Foams
- Phase Transitions and Nucleation Phenomena.

6.68 40th IUPAC General Assembly, 7-14 August 1999, Berlin, Germany. Not open for general participation but restricted to members of IUPAC bodies that meet on this occasion.

6.69 37th IUPAC Congress, 14-19 August 1999, Berlin, Germany. Contact: H. vom Dieck, Gesellschaft Deutscher Chemiker, P.O. Box 900440, D-60444 Frankfurt-am-Main, Germany, phone: +49 (69) 791-7358/-7360/-7366, fax: +49 (69) 791-7475, e-mail: tg@gdch.de.

6.70 218th ACS National Meeting, 23-26 August 1999, New Orleans, U.S.A. The symposia of the *Division of Colloid and Surface Chemistry* include:

- Novel Surfactants: Synthesis, Properties, and Applications.
- Macromolecular Secretariat: Polymeric Materials in Separations.

- Poster Session: Fundamentals of Colloid and Surface Chemistry.

- Biotechnology Secretariat (BTEC): Biosynthetic Materials, Processes, and Self-Assembly.

- Materials Chemistry Secretariat (MTLS): Materials Chemistry Secretariat Symposium on Fullerenes.

Contact: D.D. Miller, Eastman Kodak Company, 1700 Dewey Avenue, Rochester, NY 14650-1909, U.S.A., phone: +1 (716) 588-8146, fax: +1 (716) 588-2717, e-mail: ddmiller@kodak.com.

6.71 13th Conference of the European Colloid and Interface Society ECIS99, last week of August or 6-12 September 1999, Dublin, Ireland. Contact: J.C. Earnshaw, Queen's University, Department of Physics, Belfast BT7 1ND, North Ireland, phone: +44 (1232) 245-133, or V. Buckin, Department of Chemistry, University College Dublin, Belfield, Dublin 4, Ireland, phone: +353 (1) 706-2371.

6.72 The Surface Science of Metal Oxides (General Discussion 114 of the Faraday Division of the Royal Society of Chemistry), September 1999, Lancaster, U.K. Contact: G. Thornton, School of Physics and Materials, Lancaster University, Lancaster LA1 4YB, U.K.

6.73 8th International Symposium on the Interactions Between Sediments and Water, 13-17 September 1999, Beijing, China. Contact: Department of Urban and Environmental Sciences, Peking University, Beijing 100871, P.R. China, fax: +86 (10) 6275-1185, e-mail: jsc@urbanms.urban.pku.edu.cn, <http://www.wsc.monash.edu.au/iasws/circular1.html>.

6.74 39. Hauptversammlung der Kolloid-Gesellschaft (with international participation), September-October 1999, Würzburg, Germany.

Preview 2000 and later

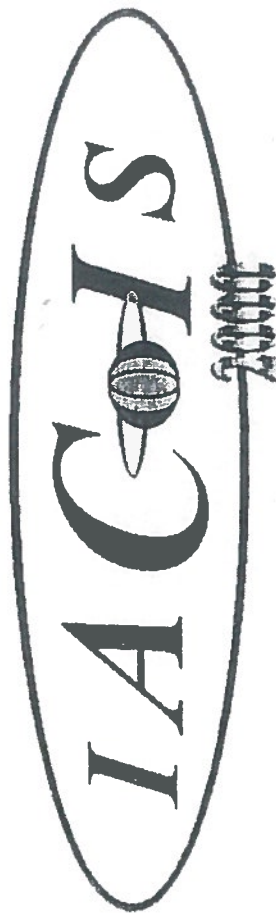
6.75 **74th Colloid and Surface Science Symposium**, June 19-21, 2000, Lehigh University, Bethlehem, Pennsylvania, U.S.A. Contact: M.S. El-Aasser, Polymer Interfaces Center, Lehigh University, 111 Research Drive, Bethlehem, PA 18015-4732, U.S.A., phone: +1 (610) 758-3590, fax: +1 (610) 758-5880.

6.76 **International Symposium on Macromolecules MACRO 2000**, 9-14 July 2000, Warsaw, Poland. Contact: S. Penczek, Centrum Badan Molekularnych i Makromolekularnych, Polskiej Akademii Nauk, ul. Sienkiewicza 112, PL-90363 Lodz, Poland, phone: +48 (42) 819-815, fax: +48 (42) 847-126.

6.77 **10th International IACIS Conference on Surface and Colloid Science**, 23-29 July 2000, Bristol, U.K. See following page.

6.78 **14th Conference of the European Colloid and Interface Society ECIS2000**, September 2000, Patras, Greece. Contact: H. Hoffmann, Universität Bayreuth, Lehrstuhl für Physikalische Chemie I, P.O. Box 101251, D-95440 Bayreuth, Germany, phone: +49 (921) 552-760, fax: +49 (921) 552-780, e-mail: heinz.hoffmann@uni-bayreuth.de.

6.79 **75th Colloid and Surface Science Symposium ACS**, 10-13 June 2001, Pittsburgh, Pennsylvania, U.S.A. Contact: S. Garoff, Carnegie Mellon University, Department of Physics, Pittsburgh, PA 15213, U.S.A., phone: +1 (412) 268-6877, fax: +1 (412) 681-0648, e-mail: sg2e@andrew.cmu.edu, or R.D. Tilton, Carnegie Mellon University, Department of Chemical Engineering, Pittsburgh, PA 15213, U.S.A., phone: +1 (412) 268-1159, fax: +1 (412) 268-7139, e-mail: tilton@andrew.cmu.edu.



The International Association of Colloid and Interface Scientists 10th Triennial Meeting Bristol 23-28th July 2000

The meeting will be made up of four major themes, each of which will comprise two parallel sessions. Each day will begin with a plenary lecture and each session with a keynote speaker.

[A] Macroscopic surfaces

contact: Brian Vincent and Paul Reynolds
e-mail: brian.vincent@bris.ac.uk

[B] Colloidal dispersions

contact: Robert Richardson and Paul Luckham
e-mail p.luckham01@ic.ac.uk

[C] Structured fluids

contact: Julian Eastoe and Jim Goodwin
e-mail: JimGoodwin@compuserve.com

[D] Biological applications

contact: Jane Lawrence and Martyn Davies
e-mail: jayne.lawrence@KCL.AC.UK.

General information: e-mail: iacis20@bris.ac.uk, <http://www.tlchm.bris.ac.uk/IACIS/IACIShome.htm>.

Chairman: Terence Cosgrove, School of Chemistry, Cantock's Close, Bristol BS8 1TS, U.K., phone: +44 (117) 928-7663, fax: +44 (117) 925-0612, e-mail: terence.cosgrove@bris.ac.uk.

6.80 ACS National Meetings

- 219th 26-31 March 2000, Las Vegas, Nevada
- 220th 20-25 August 2000, Washington DC
- 221st 1-6 April 2001, San Diego, California
- 222nd 26-31 August 2001, Chicago, Illinois
- 223rd 7-12 April 2002, Orlando, Florida
- 224th 8-13 September 2002, Boston, Massachusetts
- 225th 23-28 March 2003, New Orleans, Louisiana
- 226th 7-12 September 2003, New York, New York
- 227th 28 March - 2 April 2004, Anaheim, California
- 228th 22-27 August 2004, Philadelphia, Pennsylvania
- 229th 13-18 March 2005, San Diego, California
- 230th 28 August - 2 September 2005, Washington DC
- 231st 26-31 March 2006, Atlanta, Georgia
- 232nd 10-15 September 2006, San Francisco, California
- 233rd March 25-30 2007, Chicago, Illinois
- 234th 19-24 August 2007, Boston, Massachusetts.

7 REGIONAL AND PERSONAL NEWS

7.1 Personal News

The 1997 recipient of the Frank Tillier Award of the American Filtration & Separations Society was **Professor W. Stahl** of the University of Karlsruhe (Germany).

Two messages from Krister Holmberg:

Professor Barry Ninham from the Australian National University in Canberra has been appointed Erlanger Professor in Sweden during 1998-99. During his stay in Sweden Professor Ninham will interact with scientists at Lund University, at YKI in Stockholm and at Chalmers University of Technology in Göteborg.

Professor emeritus Johannes Lyklema from Wageningen Agricultural University received an Honorary Doctorate at the Royal Institute of Technology in Stockholm in November 1997. Professor Lyklema received the Doctorate for his long-lasting contributions to colloid and interface science and for his many efforts to foster international collaboration between scientists in the field, not least through the IACIS, of which Professor Lyklema is one of the founding fathers.

7.2 International and Regional News

Europe

Prof. Björn Lindman (Sweden) is now President of the **European Colloid and Interface Society (ECIS)** and Prof. John Earnshaw is Vice-President. General Secretary is Prof.dr. H. Hoffmann, Universität Bayreuth, Lehrstuhl für

Physikalische Chemie I, P.O. Box 101251, D-95440 Bayreuth, Germany, phone: +49 (921) 552-760, fax: +49 (921) 552-780, e-mail: heinz.hoffmann@uni-bayreuth.de. The society now has about 500 members.

COST is the acronym for European Cooperation in the Field of Scientific and Technical Research. COST cooperation involves around 25 countries; the whole of Europe and most of the countries of the former Soviet Union. COST is oriented towards precompetitive research of high scientific standard and support is given to network projects involving groups from three or more countries.

During the 1990s there have been seven COST Chemistry actions. One of these, titled Chemistry at Surfaces and Interfaces, is of obvious interest to IACIS members. This action, which has been one of the largest in COST Chemistry with around 30 network projects, has been running since 1992 and was scheduled to end in September of 1997. Its lifetime has been prolonged for one year and during this year a decision will be taken whether or not to launch a new COST action in an area related to colloid and interface science. Professor Robert Schoonheydt at the University of Leuven in Belgium is the present Chairman of the Chemistry at Surfaces and Interfaces action.

U.K.

The Officers of the **Colloid and Interface Science Group of the Royal Society of Chemistry** for 1998 are: Dr. I.D. Robb Chairman, Dr. P.A. Williams Honorary Treasurer, and Dr. I.C. Callaghan Newsletter Editor. Honorary Secretary is Dr. B.P. Binks, Surfactant Science Group, School of Chemistry, University of Hull, Hull HU6 7RX, U.K., phone: +44 (1482) 465-450, fax: +44 (1482) 466-410, e-mail: b.p.binks@chem.hull.ac.uk.

U.S.A.

The Officers of the **Colloid and Surface Chemistry Division of the American Chemical Society** for 1998 are

John Texter, Chairman, Barbara Knight Warren, Chair-elect, Alice P. Gast, vice-chairman, and Stacy Bike, Newsletter Editor. Secretary is Tina Ninoff, Sandia National Laboratories, Catalysis and Chemical Technologies Department, 1845, P.O. Box 5800, MS 0710, Albuquerque, NM 87185-0710, phone: +1 (505) 844-0340, fax: +1 (505) 845-9500.

Clarkson University announces that an endowed **Victor K. LaMer Chair in Colloid and Surface Science** has been established by a generous donation from his daughter, Mrs. Luella LaMer Slaner. Victor K. LaMer was born in 1895 in Leavenworth, Kansas. He earned his B.A. from the University of Kansas and his Ph.D. from Columbia University, and taught physical chemistry at Columbia from 1921 until his retirement in 1961. A member of the National Academy of Sciences, he received many honours, including a honorary degree from Clarkson in 1962. He was the editor of the Journal of Colloid Science from its founding in 1946 until he was succeeded by Professor Milton Kerker in 1965. In addition to his seminal work on colloids, his fundamental contributions to physical chemistry have found their way into every textbook and university course on that subject. High-spirited and ebullient, he was an enthusiast for science, an infectious quality he transmitted to his students.

7 NEW JOURNALS AND BOOKS

The main purpose of the following list is to inform IACIS members on new titles in the field of colloid and surface science. Mention of a given title is not a guarantee of its quality. Details can only be given if this informing has been made available. Suitable titles for forthcoming Newsletters can be sent to the editor of this Newsletter.

7.1 New journals

Journal of Solid State Electrochemistry - Current Research and Development in Science and Technology, F. Scholz, ed. Vol. 1 (1997), three issues, DM184 plus carriage charges, Springer, ISSN 1432-8488 (print), electronic edition in preparation.

Journal of Surfactants and Detergents (JSD), M.F. Cox, ed. Vol. 1 (1998), four issues, US\$125 (individual); US\$215 (institutional); US\$85 (AOCS Division members); outside the U.S.A. plus US\$5 (surface mail) or US\$25 (airmail). AOCS Press, Publication Orders, P.O. Box 3489, Champaign, IL 61826-3489, U.S.A., phone: +1 (217) 359-5401, ext. 128, fax: +1 (217) 351-8091.

7.2 Books 1995

Bhattacharyya, D., ed., **Composite Sheet Forming** (Composite Materials Series 11). Elsevier, US\$223.50, ISBN 0-444-82137-6.

7.3 Books 1996

Arora, A.K., and Tata, B.V.R., eds., **Ordering and Phase Transitions in Charged Colloids**. VCH, New York NY, U.S.A.

Askadskii, A.A., **Physical Properties of Polymers: Prediction and Control** (Polymer Science and Engineering Monographs 2). Gordon & Breach, cloth US\$85, ISBN 2-88449-155-4, paper US\$44, ISBN 2-88449-220-8.

Buka, A., and Kramer, L., eds., **Pattern Formation in Liquid Crystals**. Springer, DM110/US\$69, ISBN 0-387-94604-7.

Coleman, D., ed., **Directory of Capillary Electrophoresis**: New, completely revised edition (TrAC Supplements No. 3). Elsevier, Amsterdam, The Netherlands.

Engelhardt, H., Beck, W., and Schmitt, Th., eds., **Capillary Electrophoresis - Methods and Potentials**. Vieweg, Wiesbaden, Germany.

Fendler, J.H., and Dekany, I., eds., **Nanoparticles in Solids and Solutions** (Proceedings NATO Advanced Research Workshop, held in Szeged, Hungary, March 1996). Kluwer, Dordrecht, The Netherlands.

Fukuda, T., Hosokawa, T., Nikamura, Y., Katoh, K., and Kobayashi, N., **Highly Reliable SiOF film formation by ECR-CVD Using SiF₂H₂**. Widerkehr, Gaithersburg MD, U.S.A.

Goswami, A., ed., **Thin Film Fundamentals**. New Age International Publishers, New Delhi, India.

Grigag, J.P., **Microwave Dielectric Spectroscopy of Ferroelectrics and Related Materials** (Ferroelectricity and Related Phenomena 9). Gordon & Breach, US\$125, ISBN 2-88449-190-2.

Inagaki, N., **Plasma Surface Modification and Plasma Polymerization**. Technomic, SFR.169, ISBN 1-56676-337-1.

Jackim, E., ed., **Capillary Electrophoresis Procedures Manual**. Elsevier, Amsterdam, The Netherlands.

Kajiyama, T., and Aizawa, M., eds., **New Developments in Construction and Functions of Organic Thin Films**

(Studies in Interface Science 4). Elsevier, Dfl.425 / US\$265.75, ISBN 0-444-81956-8.

Mittal, K.L., and Lee, K.-W., eds., **Polymer Surfaces and Interfaces: Characterization, Modification and Application**. VSP, DM151/US\$103, ISBN 90-6764-217-7.

Pas de Aranzo, C., Scott, J.F., and Taylor, G.W., **Ferroelectric Thin Films: Synthesis and Basic Properties** (Integrated Ferroelectric Devices and Technologies, Part I; Ferroelectricity and Related Phenomena 10). Gordon & Breach, cloth US\$139, ISBN 2-88449-189-9, paper US\$79, ISBN 2-88449-197-X.

Percec, V., ed., **Liquid Crystalline Polymers Part 2**. Pergamon, Oxford, U.K.

Polishchuk, A.Y., and Zaikov, G.E., **Multicomponent Transport in Polymer Systems for Controlled Release** (Polymer Science and Engineering Monographs 3). Gordon & Breach, cloth US\$85, ISBN 2-88449-160-0, paper US\$44, ISBN 2-88449-236-4.

Rimai, D.S., and Sharpe, L.H., **Advances in Particle Adhesion**. Gordon & Breach, US\$50, ISBN 2-88449-148-1.

Schaffinger, U., ed., **Flow of Particles in Suspensions** (Lectures given during the 1995 course held in Udine, Italy). Springer, Vienna, Austria.

Schwartz, M.M., **Emerging Engineering Materials: Design, Processes, Applications**. Technomic, US\$149.95, ISBN 1-56676-314-2.

Scouten, W.H., ed., **11th International Symposium on Affinity Chromatography and Biological Recognition**. Wiley, Chichester, U.K.

Turek, L., Drchal, V., Kudrnovsky, J., Sob, M., Weinberger P., eds., **Electronic Structure of Disordered Alloys Surfaces and Interfaces**. Kluwer, Dordrecht, The Netherlands.

Vermant, J., ed., **Flow-Induced Structures and Rheology of Liquid Crystalline Polymers**. Katholieke Universiteit Leuven, Louvain, Belgium.

Wallace, G.G., Spinks, G.M., and Teasdale, P.R., **Conductive Electroactive Polymers: Intelligent Materials Systems**. Technomic SFr.277, ISBN 1-56676-437-8.

Winterbone, D.E., **Advanced Thermodynamics for Engineers**. Arnold, £24.99, ISBN 0-340-67699-X.

Zabolotskii, V.I., et al., **Ion Transfer in Membranes**. Nauka, Moscow, Russia.

7.4 Books 1997

New Directions in Tribology (Plenary and Invited Papers from the First Tribology Congress, held in September 1997). Mech. Eng. Publ., Bury St. Edmunds, U.K.

Afonso, C.N., Matthias, E., and Szoerenyi, T., eds., **Laser Processing of Surfaces and Thin Films** (Proceedings of Symposium H of the E-MRS Spring Conference, held in Strasbourg, France, June 1996). Elsevier, Amsterdam, The Netherlands.

Andersen, H.H., ed., **Small Particles and Inorganic Clusters** (Proceedings 8th international Symposium ISSPIC 8, Copenhagen, Denmark, July 1996). Springer, US\$389, ISBN 3-540-63157-7.

Ando, T., Arakawa, Y., Furuya, K., Komiyama, S., and Nakashima, H., **Mesoscopic Physics and Electronics**. Springer, DM110/US\$69.95, ISBN 3-540-63587-4.

Andricacos, P.C., Corcoran, S.G., Delplancke, J.-L., Moffat, Th.P., and Searson, P.C., eds., **Electrochemical Synthesis and Modification of Materials** (Symposium held in Boston, Massachusetts, December 1996). Materials Research Society, Pittsburgh, U.S.A.

Aono, M., and Kawai, M., eds., **Proceedings of the Tenth Toyota Conference on Atomic, Molecular and Electronic Dynamic Processes on Solid Surfaces**, held in Shizuoka, Japan, November 1996. Elsevier, Amsterdam, The Netherlands.

Arshady, R., ed., **Desk Reference of Functional Polymers: Syntheses and Applications** (ACS Professional Reference Book). American Chemical Society, US\$194.95, ISBN 0-8412-3469-8.

Asua, J.M., ed., **Polymeric Dispersions: Principles and Applications** (Proceedings of a NATO ASI held in Elizondo, Spain, June/July 1996; NATO ASI Series E, Applied Sciences, 335). Kluwer, Dfl.450, ISBN 0-7923-4549-5.

Bach, H., and Krause, D., eds., **Thin Films on Glass**. Springer, US\$169, ISBN 3-540-58597-4.

Bartos, I., ed., **Proceedings of the Seventh Symposium on Surface Physics**, held in Trest Castle, Czech Republic, June/July 1996. Pergamon, Oxford, U.K.

Bellet, D., and Canham, L., eds., Papers presented at the European Materials Research Society 1996 Spring Meeting, Symposium L: **New Developments in Porous Silicon: Relation with Other Nanostructured Porous Materials**, held in Strasbourg, France, June 1996. Elsevier, Lausanne, Switzerland.

Bloch, I., **The Physics of Oscillations and Waves**. Plenum, US\$107.40 (U.S.A. and Canada US\$89.50), ISBN 0-306-45721-0.

Born, R., and Spiess, H.W., eds., **Ab Initio Calculations of Conformational Effects on ¹³C NMR Spectra of Amorphous Polymers**. Springer, Berlin, Germany.

Brevet, P.-F., **Surface Second Harmonic Generation**. PPUR, SFr.46, ISBN 2-88074-345-1.

Bruch, L.W., Cole, M.W., and Zaremba, E., **Physical Adsorption: Forces and Phenomena**. Oxford University Press, £55, ISBN 0-19-855638-1.

Buchanan, R.C., and Park, T., **Materials Crystal Chemistry**, Marcel Dekker, Monticello NY, U.S.A. US\$175.

Cammarata, R.C., Chason, E.H., Einstein, Th.L., and Williams, E.D., eds., **Structure and Evolution of Surfaces** (Proceedings of a Symposium held in Boston MA, December 1996), Materials Research Society, Warrendale PA, U.S.A.

Cheremisinoff, N.P., ed., **Handbook of Engineering Polymeric Materials**, Marcel Dekker, US\$225, ISBN 0-8247-9799-X.

Collings, P.J., and Patel, J.S., eds., **Handbook of Liquid Crystal Research**. Oxford University Press, New York NY, U.S.A., US\$195.

Comyn, J., **Adhesion Science**. Royal Society of Chemistry, £17.95, ISBN 0-85404-543-0.

Datta, P.K., and Burnell-Gray, J.S., eds., **Advances in Surface Engineering Volume III: Engineering Applications** (Proceedings of the Fourth International Conference held in Newcastle, May 1996). Royal Society of Chemistry, Cambridge, U.K.

Drake, J.M., Klafter, J., and Kopelman, R., eds., **Dynamics in Small Confining Systems III** (Symposium held in Boston, Massachusetts, December 1996). Materials Research Society, Pittsburgh PA, U.S.A.

Dunn, B.S., Mackenzie, J.D., Pope, E.J.A., Schmidt, H.K., and Yamane, M., eds., **Sol-Gel Optics IV** (Proceedings of a Conference, held 30 July - 1 August 1997 in San Diego CA, U.S.A.). SPIE, Bellingham WA, U.S.A.

Duxbury, P.M., and Pence, T.J., **Dynamics of Crystal Surfaces and Interfaces** (Proceedings of a Workshop held in

Traverse City, Michigan, August 1996). Plenum, US\$114 (U.S.A. and Canada US\$95), ISBN 0-306-45619-2.

Dyer, A., Hudson, M.J., Williams, P.A., eds., **Progress in Ion Exchange - Advances and Applications** (Proceedings of a Conference held in Wrexham, U.K., September 1995). Royal Society of Chemistry, Cambridge, U.K.

Dijk, M.A. van, and Wakker, A., **Concepts in Polymer Thermodynamics** (Polymer Thermodynamics Library 2). Technomic, SFr.228, ISBN 1-56676-623-0.

Van Ee, J.H., Misset, O., and Baas, E.J., **Enzymes in Detergency**. (Surfactant Science Series 69). Marcel Dekker, US\$150, ISBN 0-8247-9995-X.

Eggins, B.R., **Biosensors: an Introduction**. Wiley, New York NY, U.S.A., US\$69.95.

Elias, H.-G., **An Introduction to Polymer Science**. VCH, £32.50, ISBN 3-527-28790-6.

Esumi, K., and Ueno, M., eds., **Structure-Performance Relationships in Surfactants** (Surfactant Science Series 70) Marcel Dekker, US\$195, ISBN 0-8247-0068-6.

Faust, R., and Shaffer, T.D., eds., **Cationic Polymerization: Fundamentals and Applications** (ACS Symposium Series 665). American Chemical Society, US\$99.95.

Flyvbjerg, H., Jensen, M.H., Mouritsen, O.G., and Sneppen, K., eds., **Physics of Biological Systems** (Lecture Notes in Physics 480). Springer, US\$89.95, ISBN 3-540-62475-9.

Gaffney, J.S., and Marley, N.A., eds., **Humic and Fulvic Acids** (ACS Symposium Series 651). American Chemical Society, £89, ISBN 0-8412-3468-X.

Garti, N., ed., **Surfactants in Solution** (Papers 11th International Symposium, Jerusalem, Israel, June 1996). Elsevier, Amsterdam, The Netherlands.

De Gennes, P.G., **Soft Interfaces**. Cambridge University Press, £14.95, ISBN 0-521-56417-4.

Goldstein, A.N., ed., **Handbook of Nanophase Materials**. Marcel Dekker, US\$165, ISBN 0-8247-9469-9.

Gray, F.M., **Polymer Electrolytes**. Royal Society of Chemistry, £39.50, ISBN 0-854-04557-0.

Gu, Z.-H., and Maradudin, A.A., eds., **Scattering and Surface Roughness** (Proceedings, San Diego, California, July 1997). SPIE, Bellingham WA, U.S.A.

Halfpenny, P.J., Sherwood, J.N., and Simpson, G.S., eds., **Papers presented at the 3rd European Symposium on X-Ray Topography and High-Resolution X-Ray Diffraction X-TOP '96**, held in Palermo, Italy, April 1996. Ed Compos, Bologna, Italy.

Hamakawa, Y., and Koma, A., eds., **Proceedings of the Eighth International Conference on Solid Films and Surfaces, held in Osaka, Japan, 1-5 July 1996**. Elsevier, Amsterdam, The Netherlands.

Hammond, Chr., **The Basics of Crystallography and Diffraction**. Oxford University Press, hardback £30.00, ISBN 0-19-855966-6, paperback £14.99, ISBN 0-19-855945-3.

Hancock, W.S., ed., **20th International Symposium on High Performance Liquid Phase Separations and Related Techniques, Part I** (Proceedings of a Symposium held in San Francisco, California, June 1996). Elsevier, Amsterdam, The Netherlands.

Hattori, T., Wada, K., and Hiraki, A., eds., **Proceedings of the Second International Symposium on the Control of Semiconductor Interfaces**, held in Karuizawa, Japan, October/November 1996. Elsevier, Amsterdam, The Netherlands.

Havriliak jr., S., and Havriliak, S.J., eds., **Dielectric and Mechanical Relaxation in Materials: Analysis, Inter-**

pretation, and Application to Polymers. Hans Gardner Publications, Cincinnati OH, U.S.A., US\$148.

Hawcroft, D.M., **Electrophoresis: The Basics.** Oxford University Press, New York NY, U.S.A., US\$24.95.

Heiland, W., and Taglauer, E., eds., **Inelastic Ion-Surface Collisions** (Proceedings of the 11th International Workshop IISC-11, held in Wangerooge, Germany, September 1996). North-Holland, Amsterdam, The Netherlands.

Higashi, G.S., Hirose, M.R., Raghavan, S., and Verhaverbeke, S., eds., **Science and Technology of Semiconductor Surface Preparation** (Symposium held in San Francisco, California, April 1997). Materials Research Society, Pittsburgh PA, U.S.A.

Hodgkinson, I., and Wu, Q.-H., eds., **Birefringent Thin Films and Polarizing Elements.** World Science, Singapore, Singapore.

Horvoelgyi, Z., Nemeth, Zs., Paszli, I., eds., **Proceedings of the 7th Conference on Colloid Chemistry in memoriam of Aladar Buzagh**, held 23-26 September in Eger, Hungary. Hungarian Chemical Society, Budapest, Hungary.

Howe, J.M., **Interfaces in Materials: Atomic Structure, Thermodynamics and Kinetics of Solid/Vapor, Solid/Liquid and Solid/Solid Interfaces.** Wiley, New York NY, U.S.A.

Issaq, H.J., ed., **Seventh Annual Frederick Conference on Capillary Electrophoresis** (Proceedings of a Conference held in Frederick, Maryland, October 1996). Elsevier, Amsterdam, The Netherlands.

Jaroniec, M., ed., **Adsorption in Micropores** (Special Issue of Adsorption 3 (3) 1997). Kluwer, Hingham, MA, U.S.A.

Jeffries, Th.W., and Viikari, L., eds., **Enzymes for Pulp and Paper Processing** (ACS Symposium Series 655). American Chemical Society, Washington DC, U.S.A., US\$109.95.

Jerkiewicz, G., Marcus, Ph., eds., **Electrochemical Surface Science of Hydrogen Adsorption and Absorption** (Proceedings of a Symposium held at the Spring Conference at Montreal, May 1997). Electrochemical Society, Pennington NJ, U.S.A.

Jerkiewicz, G., Soriaga, M.P., Uosaki, K., and Wiekowski, A., eds., **Solid-Liquid Electrochemical Interfaces** (ACS Symposium Series 656). American Chemical Society, US\$110.95, ISBN 0-8412-3480-9.

Kauffmann, J.-M., ed., Special Issue containing papers devoted to **the Development and Characterization of Electrochemical Biosensors based on Organised Molecular Assemblies** (Bioelectrochem. Bioenerg. 42 (1) 1997). Elsevier, Lausanne, Switzerland.

Khemani, K.C., ed., **Polymeric Foams: Science and Technology** (ACS Symposium Series 669). American Chemical Society, £75/US\$99.95, ISBN 0-8412-3516-3.

King, D.A., and Woodruff, D.P. eds., **The Chemical Physics of Solid Surfaces, Vol. 8: Growth and Properties of Ultrathin Epitaxial Layers.** Elsevier, Amsterdam, The Netherlands.

Ko, E.I., ed., **Sol-Gel Preparation of Catalytic Materials.** Elsevier, Amsterdam, The Netherlands.

Kolb, D.M., and Maier, J., eds., **Electrochemistry: Solid vs. Liquid State** (Papers from an International Workshop held at Schloß Ringberg, March 1996). North-Holland, Amsterdam, The Netherlands.

Korzeniewski, C., and Conway, B.E., eds., **The Electrical Double Layer** (Proceedings of a Symposium held in Montreal, Quebec, Canada, May 1997). Electrochemical Society, Pennington NJ, U.S.A.

Lagaly, G., Schulz, O., and Zimehl, R., **Dispersionen und Emulsionen.** Steinkopff, ISBN 3-7985-1087-3.

Maca, F., ed., **Proceedings of the VIIIth Symposium on Surface Physics**, held in Trest Castle, Czech Republic, June/July 1996). Institute of Physics, Academy of Sciences of the Czech Republic, Prague, Czech Republic.

Marcus, Y., **Ion Properties**. Marcel Dekker, US\$135, ISBN 0-8247-0011-2.

Michalske, T.A., and Wendman, M.A., eds., **Micromachining and Imaging** (Proceedings of a Symposium held in San Jose, California, February 1997). SPIE, Bellingham WA, U.S.A.

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8 NEWSLETTER IDEAS AND INFORMATION

All members are invited to send their suggestions on the 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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A handwritten signature in black ink, reading "Hans Lyklema". The signature is written in a cursive style, with the first name "Hans" and the last name "Lyklema" clearly distinguishable. There is a horizontal line drawn under the signature.