



*International Association of Colloid
and Interface Scientists*

NEWSLETTER NO. 15

APRIL 1989

COMPILED BY J. LYKLEMA

International Association of Colloid and Interface Scientists

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1 ABOUT THE NEWSLETTER/FROM YOUR NEWSLETTER 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 and important developments, and about contact addresses in various countries.

So far, I have edited 15 Newsletters. Although the task is not too heavy and I receive much help from my secretary, it is still too much a one-man show. Response from IACIS members is limited to a score of faithful correspondents who supply me with useful new items. Many people around the world show from time to time their appreciation for the NL (which is appreciated in turn) but if each member would write me once a year with the information he/she has available, the NL could become more encompassing, complete and useful.

The conference agenda (item 6 of this NL) is not only meant to fill the travel agenda of IACIS members, but also assists planners to look ahead. To my knowledge several times over the past years the NL has been instrumental in the planning of new conferences. Nevertheless I noted some items where the synchronisation could be better; a particular specimen of poor planning was the coincidence of

the ECIS meeting in Basel (this NL item 6.68) and the ASI in Aberstwyth (item 6.59), covering similar themes. Hence, please keep me posted and do so well in advance, even if the plans are only provisional. See also my note 3.4 in NL 14.

The attempt to start a new department on positions wanted was unsuccessful. The main reason is that, so far, the NL is not yet frequent enough.

With best wishes from your Newsletter Secretary,

Hans Lyklema
April 1989

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. These letters were sent to IUPAC officials and to about 200 colloid and interface scientists in 28 countries, free of charge.

NL 3 appeared in June 1980 under IACIS auspices. It was also sent to those who are on the mailing list of NL 1 and NL 2.

Starting with NL 4, the Newsletters are only sent to IACIS-members, free of charge.

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 can not accept any responsibility for them.

Formal Correspondence address: Prof.dr. Hans Lyklema, Newsletter Editor, Department of Physical and Colloid Chemistry, Wageningen Agricultural University, P.O. Box 8038, NL-6700 EK Wageningen, The Netherlands, Tel. 31 (Netherlands) - 8370 (area code) - 82279 (extension).

3 IACIS NEWS

3.1 Composition of Council 1988/89

President:	Prof.dr. Douglas Everett
President-elect:	Dr. Tharwat Tadros
Immediate Past President:	Prof.dr. Per Stenius
Vice-presidents:	Prof.dr. J.P. Kratochvil
	Prof.dr. D.H. Napper
	Prof.dr. A. Scheludko
Ordinary Members:	Prof.dr. A.M. Cazabat
	Prof. J.C. Eriksson
	Prof.dr. G.J. Fleer
	Prof. B. Lindman
	Prof. E.D. Shchukin
	Dr. A. Silberberg
	Prof.dr. P. Somasundaran
	Prof. T.G.M. van de Ven
	Dr. B. Vincent.

3.2 President's Message

"By the time this Newsletter is published the results of the Balotting for the new Constitution and Rules of IACIS will be known. It is already clear that although the new Constitution represents a considerable improvement over the Statutes and Byelaws it replaces, there are still some aspects with which one or two members are not happy. Their suggested further amendments will be considered by Council, and if felt appropriate, will be put to the Membership. As soon as the new Constitution is agreed, the Standing Committee will proceed to recommend to Council a list of co-opted members. These will be chosen to ensure as far as possible that Council as a whole is representative of all major regions, associated local societies, and of industry. It is to be hoped that in future elections to Council this balance may be achieved without the need to make major realignments by means of co-option.

3.3 From the Membership Secretary

A new *List of Members* will appear within short; members are invited to check whether their name, address etc. are correctly mentioned. Please let me know if you might find any errors. Also in case of change of address, please keep me informed.

Financial Report January 1987/June 1988:

Balance per 01-01-1987 US\$ 12.400,-

Receipts:
 - Membership fee Dfl. 510,-
 - Membership fee US\$ 4.980,-
 - Intrest 5.490,-
 360,-
 US\$ 18.250,-

Payments:
 - Newsletters, envelopes 775,-
 - Costs cheques 300,-
 - 10th Europ. Chem. at Interf. Conf. (It.) 1.500,-
 - EPS Congress 2.000,-
 - Salary secretary 750,-
 5.350,-
 12.900,-
 US\$ 18.250,-

Balance per 31-05-1988

Amounts are rounded. For conversion the rate US\$1,- = Dfl. 2,- is used.

Total receipt of "member-year" payments: 366 × US\$15,- = US\$5.490,-
 Number of members at 01-01-1987: 307
 31-05-1988: 324.

Bert Bijsterbosch
 Membership secretary

Negotiations are still proceeding to enable Members in East Europe to pay their subscriptions to the Hungarian State Bank in their local currency. This will, we hope, result in an increase in our Membership from these countries. Arrangements are also in hand for those in Australia and New Zealand to pay their subscriptions through the Division of Colloid and Surface Chemistry of the Royal Australian Chemical Institute.

As already announced, the series of International Conferences on Colloid and Interface Science will continue with the 7th Conference at Compiègne, France in July 1991; and the 8th Conference in Adelaide, Australia in 1994. Further details appear elsewhere in this Newsletter (6.129 and 6.135).

Sponsorship of a number of other Conferences has been agreed as follows:

Euchem Workshop and Scandinavian Symposium on Surface and Colloid Chemistry, Åbo, Finland, June 1989; Thin Solid and Liquid Films, Bristol, September 1989 (also sponsored by the Society of Chemical Industry and IUPAC); Surface Forces, Moscow, November 1990; Contact Angles and Wetting, Toronto, June 1990 (also sponsored by the Society of Chemical Industry). Reduced registration fees for members of IACIS apply to these conferences.

During the past year IACIS has been represented at the meeting of ECIS at Arcachon, France, and a note on this meeting appears in this Newsletter. See item 3.4.

In a move designed to enhance the international standing of IACIS, application has been made to IUPAC for IACIS to become an Associated Organisation of IUPAC. If successful, an announcement will be made at the IUPAC General Assembly at Lund, Sweden in August. This will ensure that we maintain our close connection with IUPAC Commission I.6 on Colloid and Surface Chemistry, including Catalysis."

D.H. Everett
 March 1989

3.4 Short report on the 2nd ECIS Symposium held in Arcachon, France, September 19-22, 1988.

The symposium was attended by about 220 participants including several from the industrial sector.

Scientifically, the meeting was highly successful with about 35-40 oral presentations and about 120 posters (which, however, were poorly displayed in the City Hall). Generally, the quality of the presentations was quite satisfactory with a number of interesting contributions. Micro-emulsions are in the focus to some extent, as was the case at the Como meeting last year.

As a representative of IACIS I was warmly received and asked to sit at the podium during the meeting of the General Assembly of the ECIS.

It was decided (with some hesitation of "touristique" nature) that the next similar meeting shall be held in Basel in the middle of September 1989.

Prof. Corti, Italy, was elected new chairman and Prof. H. Hoffmann, F.R.G., was elected to succeed G. Olofsson, Sweden, as treasurer.

The Lyklema Newsletter was (according to an agreement made at the Hakone meeting) handed out to all participants together with the Symposium material.

J.C. Eriksson
October 1988

3.5 Letter received from Prof.dr. Matijevic, Clarkson College of Technology, Potsdam NY, U.S.A.

"Recently, I have received the form letter informing the membership on the results of the election of the IACIS officers and Council members.

While all elected Council members are recognized and devoted citizens of our scientific community, the composition of the Council is again very much one-sided with respect to geographic

distribution. With only one exception all officers and Council members are residents of Europe or North America.

We cannot expect to have a viable international organization, if there is no representation from all parts of the world. Indeed, no wonder that the IACIS membership is small and that it is not growing. There is nobody to speak for entire continents (Asia, South America, Africa!).

As a former President and officer I have repeatedly proposed and pleaded that the Council should have a defined geographic distribution in terms of membership, and that the respective areas elect their representatives. In addition, we can have a few members at large.

My proposals have been consistently rejected with the explanation that our membership is sophisticated enough to elect representatives from all parts of the globe, if a large slate of candidates is submitted to the electorate. Well, it is not happening!

I urge members to voice their views as how to rectify the obviously unsatisfactory situation. Only if we have world-wide representation, can we hope to have a truly international organization. While the details of the composition of the Council can be worked out, it is imperative that the Constitution be revised to make such representation mandatory.

What is your opinion?"

Egon Matijevic
January 1989

Comments: The officers of IACIS have recognised the problem and hope to deal with them after the new Constitution and Rules are accepted by the membership. After that co-option is possible to ensure proper regional representation.

3.6 Future IACIS International Conferences

It has now been decided that after the meeting in Hakone, June 1988, the 7th International Conference on Colloid and Interface Science will take place in Compiègne, France, early July 1991. The convenor is Prof. M. Clause.

The 8th Conference in this serie is scheduled for 1994, probably February, and will be hosted by the Division of Colloid and Surface Chemistry of the Royal Australian Chemical Institute. A steering committee has been set up (John Ralston, Bob Hunter and Neil Furlong). Place: probably Adelaide.

4 IUPAC COMMISSION ON SURFACE AND COLLOID CHEMISTRY, INCLUDING CATALYSIS

4.1 The meetings of the 35th IUPAC General Assembly will be held in Lund, Sweden; the meetings of Commission I.6 will take place from 10 till 13 August 1989. During this period there are meetings of three subcommittees i.e. Catalyst Characterization, Porous Solids and Thin Films. (See 6.44.)

Secretary of the IUPAC Commission on Colloid and Surface Chemistry including Catalysis (I.6) is Dr. B. Vincent, Department of Physical Chemistry, School of Chemistry, University of Bristol, Cantock's Close, Bristol BS8 1TS, U.K.

4.2 Project progress

Catalyst characterization: the first manual is being prepared for publication; the first draft of the second manual should be available for discussion by the subcommittee in April, 1989 and a revised version for consideration by the Commission at Lund.

Characterization of porous solids: The subcommittee is due to meet in May 1989 and the first draft of its report should be ready for discussion at Lund.

Thin films: The subcommittee will meet in May 1989. The first complete draft of its report should be ready for distribution in June 1989. Members of the Subcommittee are involved in organising a major IUPAC-sponsored symposium on "Thin Solid and Liquid Films" (See this NL 6.61.)

Experimental techniques in surface chemical physics: The "provisional" form of the revised survey has been sent by Dr. Block to 15 experts.

Measurement and interpretation of interfacial electrochemical data: Hans Lyklema has received a number of comments on his report: most are highly favourable and we shall therefore go ahead with publication as soon as possible.

K.S.W. Sing
December 1988

5 IACIS-SPONSORED MEETINGS

5.1 International Conference on Surface and Colloid Science (previously IUPAC-sponsored, now under auspices of 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, early July
Future: 8th Conference, Australia, 1994, probably Adelaide.

5.2 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 such 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 (U.S.S.R.) International Conference on Surface Forces.

6 CONFERENCES IN THE FIELD OF SURFACE AND COLLOID SCIENCE

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

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.

6.1 **Scanning Microscopy 1989**, May 1-5, 1989, Salt Lake City, U.S.A. Contact: Scanning Microscopy International Office, P.O. Box 66507, Chicago, IL 60666, U.S.A.

6.2 **11th North American Meeting of the Catalysis Society**, May 7-11, 1989, Dearborn, U.S.A. Contact: A. Brenner, 145 Chemistry Building, Wayne States University, Detroit, MI 48202, U.S.A.

6.3 **3rd International Conference on Fundamentals of Adsorption**, May 7-12, 1989, Sonthofen, F.R.G. Organized by DECHEMA Deutsche Gesellschaft für Chemisches Apparatewesen, Chemische Technik und Biotechnologie e.V., and co-sponsored by the Engineering Foundation and the Deutscher Verein für Chemie und Verfahrenstechnik (DVCV). Contact: DECHEMA, Attn. DVCV, Mrs. C. Birkenberg, P.O. Box 970146, D-6000 Frankfurt am Main 97, F.R.G.

6.4 **3rd International Conference on Separations Technology**, May 14-19, 1989, Davos, Switzerland. Contact: Harold A. Comer, Engineering Foundation, 345 East 47th Street, New York, NY 10017, U.S.A.

6.5 **Applications of Neutron Scattering in Colloid and Surface Science**, May 23, 1989, London, U.K. Joint meeting of the Colloid and Surface Chemistry Group of the Society of Chemical Industry and the Industrial Physical Chemistry Group of the Faraday Division of the Royal Society of Chemistry. Contact: Conference Secretariat SCI, 14-15 Belgrave Square, London SW1X 8PS, U.K.

6.6 **3rd International Conference on Crosslinked Polymers**, May 29-31, Luzern, Switzerland. Contact: A.V. Patsis, Institute of Materials Science, State University of New York, New Paltz, N.Y. 12561, U.S.A.

6.7 **Journées d'Électrochimie**, May 29 - June 1, 1989, Montpellier, France (with sections on Interfacial Electrochemistry and Colloidal Systems). Contact: Secretariat, Laboratoire de Physico-

chimie des Systèmes Polyphasés. U.A. 330 CNRS, B.P. 5051, 34033 Montpellier Cedex, France.

6.8 8th Czechoslovakian Conference on Surface and Colloid Chemistry, with international attendance, May 29 - June 2, 1989, the Castle of Liblice near Melnik, Czechoslovakia. Contact: J. Kloubek, UFCEH-JH CSAV, Dolejskova 3, 182 23 Prague 8, Czechoslovakia.

6.9 Symposium on Biomaterials (European Materials Research Society 1989 Strasbourg Meeting), May 30 - June 2, 1989, Strasbourg, France. Contact: D. Muster, L.E.E.D. Biomateriaux CHRU, B.P. 426, F-67091 Strasbourg Cedex, France.

6.10 11th Symposium on Applied Surface Analysis, May 31 - June 2, 1989. Contact: G. Chottiner, Department of Physics, Case Western University, Cleveland, OH 44106, U.S.A.

6.11 3rd International Conference on Fouling and Cleaning in Food Processing, June 4-7, 1989, Prien, F.R.G. Contact: H.G. Kessler, Technische Universität München, Institute for Dairy Science and Food Processing, Vöttinger Strasse 45, D-8050 Freising-Weißenstephan, F.R.G.

6.12 International Symposium on Charge and Field Effects in Biosystems, June 4-9, 1989, Richmond, U.S.A. Contact: M.J. Allen, Virginia Commonwealth University, Biophysical Laboratory, Department of Chemistry, Box 2006, Richmond, VA 23284, U.S.A.

6.13 Applications for New Trends in Surfactant and Colloid Chemistry, June 5-9, 1989, Torino, Italy. Contact: E. Barni, Istituto di Chimica Organica Industriale, Università di Torino, Corso Massimo d'Azeglio 48, I-10125 Torino, Italy.

6.14 9th International Symposium on Cationic Polymerizations and Other Ionic Processes, June 5-9, 1989, Strasbourg, France. Sponsored by IUPAC and French Polymer Group (GFP). Contact: Institut Charles Sadron (CRM/EAHP), 6 rue Boussingault, F-67083 Strasbourg, France.

6.15 Chevreul International Congress for the Study of Fats, June 6-9, 1989, Angers, France. Contact: Centre de Congres, 33 Boulevard Carnot, F-49100 Angers, France.

6.16 EUCHEM Workshop on Adsorption of Surfactants and Macromolecules from Solution, June 12-14, 1989, Åbo (Turku), Finland. Sponsored by European Colloid and Interface Society (ECIS), IACIS and Association of Finnish Chemical Societies. IACIS members will be allowed a discount on the conference fees. Contact: G. Boström, Department of Physical Chemistry, Åbo Akademi, Porthansgatan 3-5, SF-20500 Åbo, Finland.

6.17 10th Scandinavian Symposium on Surface Chemistry, June 14-16, 1989, Turku, Finland. Sponsored by European Colloid and Interface Society (ECIS), IACIS and Association of Finnish Chemical Societies. IACIS members will be allowed a discount on the conference fees. Contact: G. Boström, Department of Physical Chemistry, Åbo Akademi, Porthansgatan 3-5, SF-20500 Åbo, Finland.

6.18 63rd Colloid and Surface Science Symposium (sponsored by ACS Division of Colloid and Surface Chemistry), June 18-21, 1989, Seattle, U.S.A. Contact: J.C. Berg, Chemical Engineering Department, University of Washington, Seattle, WA 98195, U.S.A. Subsympolia:
- Adhesion.
- Colloid Stability.
- Dense and structured dispersions.

- Structured liquids.
- Aerocolloidal systems.
- Colloidal ceramics.
- Advances in instrumentation.
- Thin films and membranes.
- Surface science/Catalysis.
- Biological materials.
- Fibrous materials.
- General papers.

6.19 1st European Ceramic Society Conference, Including Science of Ceramics 15, June 19-23, 1989, Maastricht, The Netherlands. Contact: Secretariat 1st ECerS Conference, MECC, P.O. Box 1630, NL-6201 BP Maastricht, The Netherlands.

6.20 **Annual General Assembly of the International Association of the Soap and Detergent Industry**, June 20-23, 1989, Rotterdam, The Netherlands. Contact: International Association of the Soap Development Industry, Square Marie-Louise 49, B-1040, Brussels, Belgium.

6.21 **Chemically Modified Surfaces**, June 21-23, 1989, Midland, U.S.A. Contact: W.T. Collins, Mail Stop C41C00, Dow Corning Corporation, Midland, MI 48686-0994, U.S.A.

6.22 **8th International Summer Conference on Chemistry of Solid/Liquid Interfaces**, June 22 - July 1, 1989, Crevenl Otok (Rovinj) Yugoslavia. Organised by the Rudjer Boskovic Institute, together with two symposia: "The Electrochemical Double Layer" and "Adsorption Phenomena of Bio- and Macromolecules". Contact: V. Pravdic, Center for Marine Research Rudjer Boskovic, P.O. Box 1016, YU-41001 Zagreb Croatia, Yugoslavia.

6.23 **13th Symposium on Column Liquid Chromatography**, June 25-30, 1989, Stockholm, Sweden. Contact: Conference Secretariat, Stockholm Convention Bureau, CLC '89, P.O. Box 6911, S-10239 Stockholm, Sweden.

6.24 **IUPAC Symposium on Molecular Design of Functional Polymers**, June 26-28, 1989, Seoul, Korea. Contact: Polymer Society of Korea, Room 601, Hyecheon Building, 831 Yeoksam-dong, Kangnam-ku, Seoul 135-792, Korea. Topics covered:
- Synthetic Methods for the Control of Structure.
- Polymers for Separation Process.
- Photosensitive Polymers.
- Biomedical Polymers.
- Polymers with Specific Electrical Properties.

6.25 **International Conference on Polymer Latex III**, June 27-29, 1989, London, U.K. Contact: M. Peacock, Plastics and Rubber Institute, 11 Hobart Place, London SW1W 0HL, U.K.

6.26 **Chemically Modified Oxide Surfaces**, June 28-30, 1989, Midland, U.S.A. Contact: W.T. Collins, Mail Stop C41C00, Dow Corning Corporation, Midland, MI 48686-0994, U.S.A.

6.27 **Third International Conference on Conduction and Breakdown in Solid Dielectrics**, July 3-6, 1989, Trondheim, Norway. Contact: ICSD, Prof. Sletbak, The Norwegian Institute of Technology, Sem sealand v.13, N-7034 Trondheim, Norway.

6.28 **Light-sensitive and Conducting Polymers**, July 3-8, 1989, Leipzig, G.D.R. Contact: H.K. Roth, Technische Hochschule Leipzig, Sektion Naturwissenschaften, PSF 66, DDR-7030 Leipzig, G.D.R.

6.29 **8th International Zeolite Conference**, July 9-14, 1989, Amsterdam, The Netherlands. Contact: GLT Convention Services/Congrex, Kelzersgracht 782, NL-1017 EC Amsterdam, The Netherlands.

6.30 **15th International Conference on Organic Coatings Science and Technology**, July 10-14, 1989, Athens, U.S.A. Contact: A.V. Patsis, Institute in Materials Science, State University of New York, New Paltz, N.Y. 12561, U.S.A.

6.31 **Gums and Stabilisers for the Food Industry - 5th International Conference and Industrial Exhibition**, July 10-14, 1989, Wrexham, Clwyd, U.K. Contact: Conference Secretariat, Faculty of Research and Innovation, The North East Wales Institute, Connah's Quay, Deeside, Clwyd, CH5 4BR, U.K.

6.32 **2nd International Workshop on Non-Crystalline Solids**, July 11-14, 1989, San Sebastián, Spain. Contact: J. Colmenero, Departamento de Física de Materiales, Facultad de Ciencias Químicas, Apdo 1072, E-20080 San Sebastián, Spain.

6.33 **2nd European Conference on Catalysis "G-M Schwab"**, July 16-21, 1989, Berlin, F.R.G. Contact: G. Ertl, Fritz-Haber Institut der M.P.G., Faradayweg 4-6, D-1000 Berlin 33, F.R.G.

6.34 **32nd Microsymposium on Macromolecules "Polymer Blends"**, July 17-20, 1989, Prague, Czechoslovakia. Contact: P.M.M. Secretariat, Institute of Macromolecular Chemistry, Czechoslovak Academy of Sciences, 16206 Prague, Czechoslovakia.

- 6.35 **Polymer Chemistry: Aspects of Radical Polymerisation**, July 18-20, 1989, Lancaster, U.K. Contact: J.R. Ebdon, Department of Chemistry, University of Lancaster, Lancaster, LA1 4YA, U.K.
- 6.36 **Chemistry at Interfaces**, Gordon Research Conference, July 19-24, 1989, Meriden, NH, U.S.A. Contact: R. Johnson, Central Research and Development Department, Experimental Station, P.O. Box 80309, Wilmington, DE 19880-0309, U.S.A.
- 6.37 **3rd International Symposium on Complex Fluids, Self Assembling Macromolecular Systems**, July 23-28, 1989, Santa Barbara, U.S.A. Contact: J.N. Israelachvili, Department of Chemical and Nuclear Engineering, University of California, Santa Barbara, CA 93106, U.S.A.
- 6.38 **International Symposium on Processes Governing the Movement and Fate of Contaminants in the Subsurface Environment**, July 24-26, 1989, Stanford, California, U.S.A. Contact: P. L. McCarty, Department of Civil Engineering, Stanford University, Stanford, CA 94305-4020, U.S.A.
- 6.39 **Biologically Engineered Polymers**, July 31 - August 2, 1989, Cambridge, U.K. Contact: M. Miles, AFRC Institute of Food Research, Norwich Laboratory, Colney Lane, Norwich, NR4 7UA, U.K.
- 6.40 **Workshop on Interactions and Self-Assembling Systems**, Santa Barbara, U.S.A., August 1 - December 31, 1989. Mainly theoretical, covers also a broad range of topics including colloidal aggregation, micelles, micro-emulsions, and the forces responsible for self assembly. Contact: P. Pincus, Materials Department, University of California, Santa Barbara, CA 93106, U.S.A.
- 6.41 **32nd IUPAC Congress**, August 2-7, 1989, Stockholm, Sweden. Contact: Stockholm Convention Bureau, P.O. Box 6911, S-102 39 Stockholm, Sweden.
- 6.42 **XX ICSC International Conference on Solution Chemistry**, August 6-11, 1989, Jerusalem, Israel. Contact: Secretariat XX ICSC, P.O. Box 50006, Tel Aviv 61500, Israel.

- 6.43 **5th International Symposium on Magnetic Resonance in Colloid and Interface Science**, August 7-11, 1989, Newark Delaware, U.S.A. Contact: C. Dybowski, Department of Chemistry and Biochemistry, University of Delaware, Newark, DE 19716, U.S.A.
- 6.44 **IUPAC 34th Assembly** (with meetings of Commission I.6 on Surface and Colloid Science, Including Catalysis, the Division of Physical Chemistry and the Division of Macromolecules), August 9-18, 1989, Lund, Sweden. Contact: B. Vincent, secretary of Commission I.6, The University, School of Chemistry, Cantock's Close, Bristol BS8 1TS, U.K.
- 6.45 **9th International Conference on Crystal Growth**, August 20-25, 1989, Sendai, Japan. Contact: T. Nishinaga, Inter Group Corporation, Akasaka Yamakatsu Building, 8-5-32 Akasaka Minato-ku, Tokyo 107, Japan.
- 6.46 **9th International Summer Institut in Surface Science (ISISS 1989)**, August 21-24, 1989, Milwaukee, Wisconsin, U.S.A. Nineteen invited speakers will present tutorial review lectures preferentially on gas/solid interface phenomena. Contact: R. Vanselow, Department of Chemistry and Laboratory for Surface Studies (CHEM 343), University of Wisconsin-Milwaukee, Milwaukee, WI 53201, U.S.A.
- 6.47 **5th International Conference on Particle Induced X-ray Emission and Its Analytical Applications**, August 21-25, 1989, Amsterdam, The Netherlands. Contact: R.D. Vis, Department of Physics and Astronomy, Free University Amsterdam, P.O. Box 7161, NL-1007 MC Amsterdam, The Netherlands.
- 6.48 **International Symposium on Advances in Fine Particle Processing**, August 22-26, 1989, Boston, MA, U.S.A. Contact: J. Hanna, The University of Alabama, Mineral Resources Institute, Box 870204, Tuscaloosa, AL 35487-0204, U.S.A.
- 6.49 **IUPAC Conference on Chemical Thermodynamics with special reference to Calorimetry**, August 25-28, 1989, Beijing, China. Contact: Mr. Yu Zhi-wu, Department of Chemistry, Tsinghua University, Beijing, China.

6.50 **7th International Summer School on Crystal Growth**, August 26-31, 1989, Yamagata, Japan. Contact: H. Komatsu, Inter Group Corporation, Akasaka Yamakatsu Building, 8-5-32 Akasaka, Minato-ku, Tokyo 107, Japan.

6.51 **7th Australian Conference on Colloids and Surfaces**, August 28 - September 1, 1989, Brisbane, Queensland, Australia. Royal Australian Chemical Institute Congress, part of the 3rd Asian Chemical Congress. A.o. symposia of the Division of Colloid and Surface Chemistry joint with Electrochemistry Division and Physical Chemistry Division. Contact: R. Hunter, University of Sydney, New South Wales, Australia 2006.

6.52 **International Symposium on Innovation and Perspectives in Solid Phase Synthesis: Peptides, Polypeptides and Oligonucleotides, Macro-organic Reagents and Catalysts**, August 29 - September 2, 1989, Oxford, U.K. Contact: R. Epton, School of Applied Sciences, Wolverhampton Polytechnic, Wolverhampton WV1 1BS, U.K.

6.53 **International Symposium on Parenteral Drug Administration Technology**, August 30 - September 1, 1989, Stockholm, Sweden. Contact: The Swedish Academy of Pharmaceutical Sciences, P.O. Box 1136, S-111 81 Stockholm, Sweden.

6.54 **5th International Conference on Magnetic Fluids**, September 1989, Riga, U.S.S.R. Contact: E. Blums., Institute of Physics, Latvian SSR Academy of Sciences, 229021 Riga, Salaspils, U.S.S.R.

6.55 **Cellucon '89 Cellulose: Sources and Exploitation**, September 4-8, 1989, Wrexham, Wales, U.K. Contact: Cellucon Conference Secretariat, Research Division, N.E. Wales Institute, Deeside, Clwyd, CH5 4BR, U.K.

6.56 **Macromolecules '89: 2nd Euro-American Conference on Functional Polymers and Biopolymers**, September 4-9, 1989, Oxford, U.K. Contact: R. Epton, School of Applied Sciences, The Polytechnic, Wulfruna Street, Wolverhampton, WV1 1SB, U.K., or

J.C. Vogl, Polytechnic Institute of New York University, 333 Jay Street, Brooklyn, N.Y. 11201, U.S.A.

6.57 **International Conference on Interfacial Phenomena in Composite Materials**, September 5-7, 1989, Sheffield, U.K. Contact: Butterworth Scientific Ltd., P.O. Box 63, Westbury House, Bury Street, Guildford, Surrey GU2 5BH, U.K.

6.58 **198th ACS National Meeting, Including Division of Colloid and Surface Chemistry and Division of Polymer Chemistry**, September 10-15, 1989, Miami Beach, U.S.A.

Colloid and Surface Chemistry Division, contact: D.W. Osborne, The Upjohn Company, Kalamazoo, MI 49001, U.S.A. Subsymposia:

- Molecular Processes At Solid Surfaces: Surface Photochemistry.
- Colloidal Particles/Surfactants and Association Colloids: Polymeric Surfactants.
- Photochemical and Electrochemical Surface Science: Electrochemistry of Hydrocarbons.
- Liquid Crystals and Ordered Fluids:
 - I Tribology and the Liquid Crystalline State
 - II Fluctuations in Lamellae and Membranes
 - III Ferroelectrics.
- Catalysis and Surface Science Secretariat: New Catalytic Materials.
- Chemical Physics of Colloid Phenomena: Chemical Physics of Interfaces.
- Surface Chemistry in Biology, Medicine and Dentistry: Colloid Science in Biology:
 - I False Balance Measurements in Biological Systems
 - II Electrochemical Phenomena in Biological Systems
 - III Surface Phenomena of Biopolymers and Cells.
- Surface Science of Catalysis: Adsorption and Reaction on Oxide Surfaces.
- Colloid Science and Related Topics: General Papers.
- Catalysis and Surface Science: General Papers.

Polymer Chemistry Division, contact: A.D. English, Central Research and Development Department, E.I. du Pont de Nemours & Co., Experimental Station, Wilmington, DE 19880-0356, U.S.A., or

Research Laboratory of Applied Biochemistry, Tanabe Seiyaku Co. Ltd., 16-89 Kashima-3-chome, Yodogawa-ku, Osaka, Japan; (from all other countries:) Engineering Foundation, 345 East 47th Street, New York, NY 10017, U.S.A.

6.70 Transport Processes in Fluids and in Mobile Phases. September 25-27, 1989, Aachen, F.R.G. Joint meeting of the Faraday Division of the Royal Society of Chemistry with the Deutsche Bunsen-Gesellschaft für Physikalische Chemie, Associazione Italiana di Chimica Fisica and Société Française de Chimie, Division de Chimie Physique. Contact: H. Versmold, Institut für Physikalische Chemie, RWTH Aachen, Templergraben 59, D-1500 Aachen, F.R.G.

6.71 22nd Europhysics Conference on Macromolecular Physics "Structure Formation in Polymer Solutions". September 25-27, 1989, Leuven, Belgium. Contact: H. Berghmans, Laboratory for Polymer Research, Katholieke Universiteit Leuven, Celestijnenlaan 200 F, B-3030 Leuven, Belgium.

6.72 5th International Symposium on Agglomeration. September 25-27, 1989, Brighton, U.K. Contact: Mrs. L.N. Curzon, Conference Section, The Institution of Chemical Engineers, 165-171 Railway Terrace, Rugby CV21 3HQ, U.K.

6.73 Relations between Homogeneous and Heterogeneous Catalysis. September 25-29, 1989, Pisa, Italy. Contact: S. Sbrana, Dipartimento di Chimica e Chimica Industriale, via Risorgimento 35, I-56100 Pisa, Italy.

6.74 Chemistry at Interfaces. Royal Society of Chemistry Meeting and Faraday Division Symposium, September 26-28, 1989, Loughborough, U.K. Contact: D.M. Jaycock or F. Wilkinson, Chemistry Department, University of Technology, Loughborough, Leicestershire LE11 3TU, U.K.

6.75 7th Yugoslav Symposium on Surface Active Agents, with international participation. September 27-29, 1989, Tuzla, Yugoslavia. Contact: Yugoslav Committee for Surface Active Agents, DITA-Tuzla, Husinskih rudara b.b., YU-75000 Tuzla, Yugoslavia.

6.76 Catalysis and Control of Polymerisation. Autumn 1989, Manchester, U.K. Contact: P.J.T. Tait, Department of Chemistry, UMIST, Manchester, M60 8QD, U.K.

6.77 32e.Hauptversammlung Kolloid Gesellschaft ("Kolloid-tagung"). October 2-6, 1989, Bochum, F.R.G. Main topic: Interfaces. Contact: G.H. Findenegg, Ruhr Universität, Building NC7/72, Department of Physical Chemistry III, P.O. Box 102148, D-4630 Bochum-1, F.R.G.

6.78 176th Meeting of the Electrochemical Society. October 15-20, 1989, Hollywood, FL, U.S.A. Contact: The Electrochemical Society, Inc., 10 South Main Street, Pennington, NJ 08534-2896, U.S.A. Among other items there is a symposium "Colloid Aspects of Surface Films and Corrosion". Contact: M.W. Kendig, Rockwell International Science Center, Thousand Oaks, CA 91360, or E. McCafferty, Naval Research Laboratory, Code 6322, Washington, DC 20375, U.S.A.

6.79 Regional Meeting of the American Filtration Society: Particle Separation Related to Oil and Gas Products and Environmental Issues. October 18-19, 1989, Houston, TX, U.S.A. Contact: F. Tiller, Department of Chemical Engineering, Mail Stop 52221, University of Houston, 4800 Calhoun Street, Houston, TX 77004, U.S.A.

6.80 International Symposium on Affinity Chromatography and Biological Recognition. October 29 - November 3, 1989, Israel. Contact: E.A. Bayerand F. Kohen, The Weizmann Institute of Science, Rehovoth 76100, Israel.

6.81 1st Regional Meeting American Filtration Society. October 30 - November 1, 1989, Houston, TX, U.S.A. Contact: W. Martir, Texaco, P.O. Box 425, Bellaire, TX 77401, U.S.A.

6.82 International Symposium Elektrokinetische Erscheinungen '89. November 6-7, 1989, Dresden, G.D.R. Contact: M. Rätzsch, Institut für Technologie der Polymere, Akademie der Wissenschaften der DDR, P.O. Box 411, DDR-8012 Dresden, G.D.R.

6.83 **Macromolecular Liquids**, November 27 - December 2, 1989, Boston, U.S.A. Contact: C.R. Safinya, Exxon Research & Engineering Co., Annandale, NJ 08801, U.S.A.

6.84 **International Symposium on Solid/Liquid Separations**, December 5-7, 1989, Columbus, Ohio, U.S.A. Sponsored by Battelle. Contact: Ph. Wells, The Conference Group, 1989 West Fifth Avenue, Suite 5, Columbus, OH 43212, U.S.A.

6.85 **1st Pacific Polymer Conference**, December 12-15, Maui, Hawaii. Contact: O. Vogl, Polytechnic University, Department of Chemistry, 333 Jay Street, Brooklyn, N.Y. 11202, U.S.A.

6.86 **Rheology of Latex Systems**, December 13, 1989, London, U.K. Contact: D.J. Hourston, Department of Chemistry, University of Lancaster, LA1 4YA, U.K.

6.87 **Wetting and Spreading**, December 15, 1989, London, U.K. Organised by the Colloid and Interface Science Group of the Faraday Division of the Royal Society of Chemistry. Contact: M.J. Garvey, Unilever Research, Port Sunlight Laboratory, Quarry Road East, Bebington Wirral, Merseyside L63 3JW, U.K.

6.88 **PAC-CHEM '89**, December 14-16, 1989, Maui, Hawaii, U.S.A. Joint meeting of the Royal Australian Chemical Institute and the American Chemical Society. Contact: D.J.T. Hill, Chemistry Department, University of Queensland, St. Lucia, Qld., 4067, Australia.

6.89 **International Chemical Congress of Pacific Basin Societies "PacifiChem '89"**, December 17-22, 1989, Honolulu, Hawaii, U.S.A. There will be some 85 symposia in nine broad topical areas: Agrochemistry, Analytical chemistry, Applied chemistry, Bioscience and technology, Inorganic chemistry, Information transfer, Macromolecular chemistry, Organic chemistry, and Physical chemistry, including catalysis and colloid and surface chemistry. Contact: G. Bixler, American Chemical Society, 1155 Sixteenth Street N.W., Washington, D.C. 20036, U.S.A. In the section Applied Chemistry there will be a symposium **"The Metal Oxide - Aqueous Solution Interface"**, contact: C. Pruitt, 1155-16th Street N.W., E.I. Ko,

Department of Chemical Engineering, Carnegie Mellon University, Pittsburgh, PA 15213, U.S.A., and "**Catalytic Conversion with Niobium Materials**", contact: E.I. Ko, Department of Chemical Engineering, Carnegie Mellon University, Pittsburgh, PA 15213, U.S.A.

Preview 1990 and later

6.90 **18th Australian Polymer Symposium**, February 4-8, 1990, Bendigo, Australia. Contact: E. Rizzardo, CSIRO Division of Polymers and Chemicals, P.O. Box 4331, Melbourne 3001, Australia.

6.91 **Third International Symposium on Polymer Analysis and Characterization**, Spring 1990, Dresden, G.D.R. Contact: H.G. Barth, Du Pont Company, Experimental Station, Wilmington, DE 19898, U.S.A.

6.92 **Functional Properties of Macromolecules in Food**, Spring 1990, London, U.K. Contact: J.F. Gibson, Royal Society of Chemistry, Burlington House, Piccadilly, London, W1V 0BN, U.K.

6.93 **3rd Annual Meeting of the American Filtration Society**, March 1990, Washington D.C., U.S.A. Contact: S.H. Chian, University of Pittsburg, Chemistry and Petroleum Engineering Department., 1249 Benedum Hall, Pittsburg, PA 15261, U.S.A. or F. Tiller, Department of Chemical Engineering, Mail Stop 52221, University of Houston, 4800 Calhoun Street, Houston, TX 77004, U.S.A.

6.94 **Stability of Proteins: Theory and Practice**, March 26-29, 1990, Cambridge, U.K. Organised by the Biotechnology Group of the Royal Society of Chemistry. Contact: F. Franks, Biopreservation Division, Pafra Ltd., 150 Cambridge Science Park, Cambridge CB4 4GG, U.K.

6.95 **International Symposium on Food Polymers, Gels and Colloids**, March 28-30, 1990, Norwich, U.K. Organised by the Food Chemistry Group of the Industrial Division of the Royal Society of Chemistry. Contact: E. Dickinson, Procter Department of Food Science, University of Leeds, Leeds LS2 9JT, U.K.

6.96 **Structural Aspects of Polymers**, April 1990, Strathclyde, U.K. Contact: R.W. Richards, Department of Pure and Applied Chemistry, University of Strathclyde, Thomas Graham Building, 295 Cathedral Street, Glasgow, G1 1XL, U.K.

6.97 **Spectroscopy in Colloid Science**, April 1990, U.K. Organised by the Colloid and Interface Science Group of the Faraday Division of the Royal Society of Chemistry. Contact: R. Buscall, The Royal Society of Chemistry, Burlington House, London W1V 0BN, U.K.

6.98 **Adhesion and Surface Analysis**, April 3-5, 1989, Loughborough, U.K. Contact: D.W. Brewis, University of Technology, Loughborough, Leicestershire, LE11 3TF, U.K.

6.99 **Structure of Surfaces and Interfaces as Studied Using Synchrotron Radiation**, General Discussion No. 89 of the Faraday Division of the Royal Society of Chemistry, April 4-6, 1990, Manchester, U.K. Contact: J.N. Sherwood, Department of Pure and Applied Chemistry, University of Strathclyde, Thomas Graham Building, 295 Cathedral Street, Glasgow G1 1XL, U.K.

6.100 **Dispersions in Non-Aqueous Media**, April 10-11, 1990, Thornton, U.K. Contact: D. Cooper, Shell, Thornton Research Centre, P.O. Box 1, Chester CH1 3SH, U.K.

6.101 **199th ACS National Meeting, Including Division of Colloid and Surface Chemistry and Division of Polymer Chemistry**, April 22-27, 1990, Boston, U.S.A.

Colloid and Surface Chemistry Division, contact: D.W. Osborne, Upjohn Company, Kalamazoo, MI 49001, U.S.A. Subsymposia:

- Photochemical and Electrochemical Surface Science: Surface Electrochemistry.
- Tribology (Friction, Lubrication and Wear): Fluorinated Lubricants.
- Surfactants and Association Colloids: Zwitterionic Surfactants.
- Catalysis and Surface Science Secretariat: Industrial Application of Homogeneous Catalysis.
- Colloid Science and Related Topics. General Papers.
- FT-IR in Colloid Science.

- Catalysis and Surface Science: General Papers.
- Polymer Surfaces.

Polymer Chemistry Division, contact: A.D. English, Central Research and Development Department, E.I. du Pont de Nemours & Co., Experimental Station, Wilmington, DE 19880-0356, U.S.A., or C.W. Frank, Department of Chemical Engineering, Stanford University, Stanford, CA 94305-5025, U.S.A. Subsymposia:

- Instrumental Methods for Polymer Characterization No. 12 - Thermal Analysis.
- Thermal Analysis.
- Supercritical Fluids.
- Ring Opening Polymerization.
- Biological Sources of Monomers and Polymers.
- Chemical Modification of Biopolymers.
- Polymer Surfaces.
- Diffusion Through Polymers.
- International Symposium in Materials Science: Noncrystalline Materials.
- Fluorine-Containing Polymeric Materials.
- General Papers.

6.102 **XI European Chemistry at Interfaces Conference**, April 23-29, 1990, Eisenach, G.D.R. Main theme: Amphiphilic Substances at Interfaces. Contact: R. Miller, Zentral-Institut für Organische Chemie, Akademie für Wissenschaften der D.D.R. Rudower Chaussee 5, Berlin 1199, G.D.R.

6.103 **IUPAC Symposium on the Characterization of Porous Solids (COPS II)**, May 6-9, 1990, Alicante, Spain. Contact: F. Rodríguez-Reinos, Departamento de Química Inorgánica e Ingeniería Química, Universidad de Alicante, Apartado 99, Alicante, Spain.

6.104 **Third International Conference on Composite Interfaces ICCI-III: Controlled Interphase Structure**, May 21-24, 1990, Cleveland, OH, U.S.A. Contact: H. Ishida, Department of Macromolecular Science, Case Western Reserve University, Cleveland, OH 44106-1712, U.S.A.

6.105 **Polymer Characterisation II**, Summer 1990, U.K.. Contact: P. Holmes, ICI Chemicals and Polymers Ltd., Polymer Research, The Heath, P.O. Box 8, Runcorn, Cheshire, U.K.

6.106 **64th Colloid and Surface Science Symposium** (Division Colloid and Surface Chemistry ACS) June 1990, Bethlehem, U.S.A. Contact: M. El-Aasser, Zettlemoyer Center for Surface Studies, Lehigh University, Bethlehem, PA 18015, U.S.A.

6.107 **World Congress Filtration** - The Separation Technology of the 21st Century, June 5-8, 1990, Nice, France, together with an exhibition of products for solid/liquid separation and gas filtration. Organised by the French Filtration Society. Contact: INTERFILT 90, c/o IDEXPO, 21 Avenue de la Division Leclerc, F-94230 Cahan, France.

6.108 **8th International Symposium on Surfactants in Solution**, June 10-15, 1990, Gainesville, U.S.A. Contact: K.L. Mittal, IBM, 500 Columbus Ave., Thornwood, NY 10594, or D.O. Shah, Center for Surface Science and Engineering, University of Florida, Gainesville, FL 32611, U.S.A.

6.109 **7th European Symposium on Comminution**, June 12-14, 1990, Ljubljana, Yugoslavia Contact: K. Schoenert, Technische Universität Clausthal, Institut für Aufbereitung und Veredelung, Erzstrasse 20, D-3392 Clausthal-Zellerfeld, F.R.G.

6.110 **International Symposium on Contact Angles and Wetting Phenomena**, June 21-23, 1990, Toronto, Canada. Sponsored by the Society of Chemical Industry and IACIS. IACIS members will be allowed a discount on the conference fees. Contact: A.W. Neumann, Department of Mechanical Engineering, University of Toronto, 5 King's College Road, Toronto, Ontario M5S 1A4, Canada.

6.111 **International Conference on Surface Engineering: Current Trends and Future Prospect**, June 25-27, 1990, Toronto, Canada. Contact: S.A. Meguid, Department of Mechanical Engineering, University of Toronto, 5 King's College Road, Toronto, Ontario, Canada M5S 1A4.

6.112 **First Conference on Liquid Matter**, July 7-11, 1990, Lyon, France. Organised by the European Physical Society. Programme includes Colloids, Polymers and Rheology. Contact: J.C.I. Leicknam, Laboratoire de Physique Théorique des Liquides, T.16, 5ème étage, Université Pierre et Marie Curie, F-75252 Paris Cedex 05, France.

6.113 **33rd IUPAC International Symposium on Macromolecules, MACRO 90**, July 8-13, 1990, Montréal, Canada. Contact: R.E. Prud'homme, Department of Chemistry, Laval University, Sainte-Foy, Québec, Canada G1K 7P4.

6.114 **41st Meeting of the International Society for Electrochemistry**, August 20-25, 1990, Prague, Czechoslovakia. Theme: Electro-analytical Chemistry. Joint with Heyrovsky Centennial Congress on Polarography. Contact: the Congress Secretariat, J. Heyrovsky Institute of Physical Chemistry and Electrochemistry, Czechoslovak Academy of Sciences, Dolejskova 3, CS-182 23 Prague 8, Czechoslovakia.

6.115 **200th ACS National Meeting, including Division of Colloid and Surface Chemistry and Division of Polymer Chemistry**, August 26-31, 1990, Washington, U.S.A.

Colloid and Surface Chemistry Division, contact: D.W. Osborne, Upjohn Company, Kalamazoo, MI 49001, U.S.A. Subsymposia:

- Photochemical and Electrochemical Surface Science: Organometallic Electrochemistry.
- Tribology (Friction, Lubrication, and Wear): Tribology for the Nineties - Lubrication for Emerging Technologies.
- Ralph K. Iler Memorial Symposium on the Colloid Chemistry of Silica.

Polymer Chemistry Division, contact: A.D. English, Central Research and Development Department, E.I. du Pont de Nemours & Co., Experimental Station, Wilmington, DE 19880-0356, U.S.A., or C.W. Frank, Department of Chemical Engineering, Stanford University, Stanford, CA 94305-5025, U.S.A. Subsymposia:

- Polymer Science and Engineering Series No. 28 - X-Ray and Neutron Scattering in Polymer Characterization.
- X-Ray and Neutron Scattering in Polymer Characterization.

- Reactions on Polymers/Chemical Modification of Polymers.
- Copolymerization.
- International Symposium on Polymeric Drugs and Delivery Systems.
- Radiation Effects on Polymeric Materials.
- Adsorption Phenomena in Polymers.
- Solid State NMR.
- General Papers.

6.116 **11th IUPAC Conference on Chemical Thermodynamics**, August 27-31, 1990, Como, Italy. With sponsorship of the Società Chimica Italiana. Among other topics: "Polymers" and "Surfaces, interfaces and micellar systems". Contact: Dipartimento Chimica Fisica Applicata, Politecnico di Milano, Via Golgi 39, I-20133 Milano MI, Italy.

6.117 **Adhesion '90**, September 10-12, 1990, Cambridge, U.K. Contact: Plastics and Rubber Institute, 11 Hobart Place, London SW1W, OHL, U.K.

6.118 **Colloidal Dispersions**, September 11-13, 1990, Bristol, U.K. (General Discussion No. 90 of the Faraday Division of the Royal Society of Chemistry and 10th Joint Meeting with the Division de Chimie Physique of the Société Française de Chimie, Deutsche Bunsen-Gesellschaft für Physikalische Chemie, Associazione Italiana di Chimica Fisica and Koninklijke Nederlandse Chemische Vereniging). Contact: R.H. Ottewill, School of Chemistry, University of Bristol, Cantock's Close, Bristol BS8 1TS, U.K.

6.119 **11th Symposium on Industrial Crystallization**, September 18-20, 1990, Garmisch-Partenkirchen, F.R.G. Contact: GVC.VDI-Gesellschaft Verfahrenstechnik, Chemieingenieurwesen, Postfach 1139, D-4000 Düsseldorf 1, F.R.G.

6.120 **18th International Symposium on Chromatography**, September 24-28, 1990, Amsterdam, The Netherlands. Contact: Free University, Department of General and Analytical Chemistry, De Boelelaan 1083, NL-1081 HV Amsterdam, The Netherlands.

6.121 **3rd International Aerosol Conference**, September 24-28, 1990, Kyoto, Japan. Contact: Kanji Takahashi, Institute of Atomic Energy, Kyoto University, Uji, Kyoto 611, Japan.

6.122 **Polymers in Marine Environment III**, October 1990, U.K. Contact: M. Richardson, National Physical Laboratory, Teddington, Middlesex, TW11 0LW, U.K.

6.123 **International Conference on Surface Forces, November 1990, Moscow, U.S.S.R.** Organised by the Department of Surface Phenomena of the Institute of Physical Chemistry of the U.S.S.R. Academy of Sciences. Sponsored by IACIS; members will be allowed a discount on the conference fees. Contact: B.V. Derjaguin, The Department of Surface Phenomena, The Institute of Physical Chemistry of the U.S.S.R. Academy of Sciences, 31 Lenin Prospekt, Moscow 117915, U.S.S.R.

6.124 **Polymer Surfactants**, December 1990, U.K. Organised by the Colloid and Interface Science Group of the Faraday Division of the Royal Society of Chemistry. Contact: R. Buscall, The Royal Society of Chemistry, Burlington House, London W1V 0BN, U.K.

6.125 **Polymer 91: Polymer Materials, Preparation, Characterization and Properties**, February 10-15, 1991, Melbourne, Australia. Contact: G.B. Guise, P.O. Box 224, Belmont, Victoria 3216, Australia.

6.126 **The Preparation of Dispersions**, April 3-5, 1991, Eindhoven, The Netherlands. Contact: H.N. Stein, Technical University Eindhoven, Department of Colloid Chemistry, P.O. Box 513, NL-5600 MB Eindhoven, The Netherlands.

6.127 **201st ACS National Meeting**, April 14-19, 1991, Atlanta, U.S.A. Contact: Th.A. Horbett, Chemical Engineering Department, University of Washington, Seattle, WA 98195, U.S.A.

Subsymposium of the Polymer Chemistry Division: Electronically Conducting Polymeric Materials. Contact: A.D. English, Central Research and Development Department, E.I. du Pont de Nemours & Co., Experimental Station, Wilmington, DE 19880-0356, U.S.A., or C.W. Frank, Department of Chemical Engineering, Stanford University, Stanford, CA 94305-5025, U.S.A.

6.128 **65th Colloid and Surface Science Symposium** (Division Colloid and Surface Chemistry ACS), June 1991, Norman, Oklahoma, U.S.A. Contact: J.F. Scamehorn, Chemical Engineering Department, University of Oklahoma, Norman, OK 73019, U.S.A.

6.129 **7th International IACIS Conference on Colloid and Interface Science, July 7-12, 1991, Compiègne, France.** IACIS members will be allowed a discount on the conference fees. Contact: B. Clausse, Department of Chemistry, Université de Compiègne, Rue Roger Couttolenc, F-60206 Compiègne Cedex, France. See also 3.6.

6.130 **202nd ACS National Meeting and 4th Chemical Congress of North America**, August 25 - 30, 1991, New York City, U.S.A. Contact: Th.A. Horbett, Chemical Engineering Department, University of Washington, Seattle, WA 98195, U.S.A.

6.131 **42nd Meeting of the International Society for Electrochemistry**, September 1991, Switzerland. Contact: O. Dossenbach, Technisches-chemisches Labor, ETH Zentrum, CH-8092 Zurich, Switzerland.

6.132 **203rd ACS National Meeting**, April 5-10, 1992, San Francisco, U.S.A. Contact: Th.A. Horbett, Chemical Engineering Department, University of Washington, Seattle, WA 98195, U.S.A.

6.133 **66th Colloid and Surface Science Symposium** (Division of Colloid and Surface Chemistry, American Chemical Society), June 15-18, 1992, Morgantown, West Virginia, U.S.A. Contact: D.H. Smith, U.S. Department of Energy, Morgantown Energy Technology Center, Morgantown, WV 26507-0880, U.S.A.

6.134 **12th European Chemistry at Interfaces Conference**, provisionally June-August 1992, Frostavallen, Sweden. Contact: B. Lindman, Physical Chemistry 1, Chemical Center, P.O. Box 124, S-221 00 Lund, Sweden, or G. Olofsson, Thermochemistry Chemical Center, University of Lund, P.O. Box 124, S-221 00 Lund, Sweden.

6.135 **8th International IACIS Conference on Colloid and Interface Science**, February 12-19, 1994, Adelaide, Australia. IACIS members will be allowed a discount on the conference fees.

6.136 **ACS National Meetings.**

204th August 23-28, 1992, Washington D.C., U.S.A.
 205th April 18-23, 1993, Minneapolis, U.S.A.
 206th August 22-27, 1993, Chicago, U.S.A.
 207th with 5th Chemical Congress of North America, April 10-15, 1994, Mexico City, U.S.A.
 208th August 21-26, 1994, Washington D.C., U.S.A.
 209th April 2-7, 1995, Anaheim, U.S.A.
 210th Aug. 27 - Sep. 1, 1995, Chicago, U.S.A.
 211th March 24-29, 1996, Salt Lake City, U.S.A.
 212th August 25-30, 1996, Boston, U.S.A.
 214th September 7-12, 1997, Las Vegas, U.S.A.

7 **REGIONAL AND PERSONAL NEWS**

7.1 **Personal News**

IACIS regrets to report the death of **Professor Murata**, on July 22, 1988 at the age of 63 and formerly member of IACIS.

Prof.dr. J. Lyklema has received an honorary doctorate at the University of Louvain-la-Neuve, Belgium.

Prof. J.Th.G. Overbeek (The Netherlands) has received the Ostwald prize of the German Kolloid Gesellschaft. The prize will be presented to him at the occasion of the Kolloid-Tagung in Bochum, October 1989 (See item 6.77.)

The 1988 Peter Debye Award in Physical Chemistry, sponsored by the Du Pont Company, has been conferred to **Prof. G.A. Somorjai** (U.S.A.).

7.2 Regional News

Prof. S. Trasatti (Italy) has taken the office of President of the *International Society of Electrochemistry (I.S.E.)* for the term 1989-1990.

China P.R.

The following letter was received from Dr. Sun Yan, 1 Hostel of Hebei University, Heping District, Tianjin 300050, P.R. China:

"A SURVEY OF RESEARCH ON COLLOID AND INTERFACE SCIENCE IN THE P.R. OF CHINA".

"Research on colloid and interface science in the P.R. of China was brought back to life after the termination of disturbances in the sixties to the seventies ("the Great Proletarian Cultural Revolution") and is now making steady progress. The "First Chinese Conference on Colloid and Interface Chemistry" was convened in July, 1983 (Beijing, China) and 70 papers were presented. In this Conference, delegates decided that a "Chinese Conference on Colloid and Interface Chemistry" should be held once every two years. In succession, the 2nd and 3rd Conference were convened in 1985 (Jinan, China) and 1987 (Shanghai, China) respectively. In the mean time, taking part in international academic action became more and more extensive and the exchanges between Chinese and foreign colloid and interface scientists also became increasingly frequent. For example, Prof. Gu Ti-Ren (Beijing University) was appointed to be a member of the International Advisory Committee of the "International Symposium on Surfactants in Solution". Only three papers had been offered to the 5th International conference on Colloid and Interface Science and 23 papers to the 6th Conference by Chinese scholars (including Taiwan scholars one paper). In the 5th Conference, authors of two papers are Zhao Guo-Xi, Zhu Bu-Yao and Cui Jun-Gang (Beijing University) and the authors of another one are Xia Ji-Ding, Sun Yan and Zhou He-Yun (Wuxi Institute of Light Industry). Twenty-three Chinese papers were submitted to the 6th Conference by the following institutes respectively: Tianjin Institute

of Light Industrial Chemistry (5), Beijing University (2), Shandong University (2), Wuxi Institute of Light Industry (2), Qingdao Institute of Chemical Technology, Dalian Institute of Chemical Physics, Fudan University, Fuzhou University, Chinese Culture University, East China Institute of Technology, Tianjin College of Textile Technology, Institute of Chemistry of Shandong/Shandong Polytechnic University, Qinghua University/Beijing University, North East Normal University, Institute of Porous Flow Mechanics/Science Institute of Petroleum Exploration and Development, and Lanzhou Institute of Chemical Physics. In addition, Chinese colloid and interface scientists offered about one hundred papers to other international congresses relating to colloid and interface science. Thus, it can be seen that the research on colloid and interface science is developing in the P.R. of China.

As present the main institutes in the P.R. of China contributing to the research on colloid and interface science are: Beijing University, Shandong University, Dalian Institute of Chemical Physics, Wuxi Institute of Light Industry, Fuzhou University, Tianjin Institute of Light Industrial Chemistry, East China Normal University, Hangzhou University and others. Some results have been achieved. For instance, Sun Yan (Tianjin Institute of Light Industrial Chemistry) has found a series of quantitative relationships between molecular structure-topology and properties of surfactants; Prof. Zhao Guo-Xi and Prof. Zhu Bu-Yao (Beijing University) devote themselves to the study of fluorocarbon surfactants and anionic-cationic surfactant systems, and have discovered a series of valuable rules; outstanding research and developing original views on adsorption and interfacial films is done by Prof. Gu Ti-Ren (Beijing University) and for microemulsions by Prof. Li Gan-Zuo, Prof. Wang Guo-Ting and co-workers (Shandong University); noticeable progress has been earned from the researches of Prof. Xia Ji-Ding (Wuxi Institute of Light Industry) on mixed surfactant systems, and Prof. Jiang Bing-Nan and co-workers (Dalian Institute of Chemical Physics) on colloid catalytic dynamics. In addition, it was Prof. Shen Han-Xi (Nankai University), Prof. Zhou Nai-Fu (East China Normal University) and their co-workers who have carried out remarkable investigations and deep discussions on the action of surfactants in analytical chemistry as well as the mechanism. Recently, Dr. Sun

United Kingdom

As from this summer Dr. B. Vincent will be Chairman of the *Surface and Colloid Chemistry Group of the Society of Chemical Industry*.

USA

As from January Chairman of the *Division of Colloid and Surface Chemistry of the American Chemical Society* is J.L. Gland (University of Michigan); secretary is M.E. Labib (David Sarnoff Research Center, Princeton, New Jersey).

8 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 information has been made available. Suitable titles for forthcoming Newsletters can be sent to the author of this Newsletter. We cannot accept any responsibility for omissions or errors, although of course the information in checked to the best of our knowledge.

8.1 New Journals

Biocolloids and Biosurfaces Special Issue associated with the Journal of Dispersion Science and Technology, to be started in 1990, two or more issues per year, Marcel Dekker New York, U.S.A.

Catalysis Today, J.R.H. Ross, Ed., Elsevier Amsterdam, The Netherlands. Vols 2 and 3, 1988, 10 issues, Dfl. 932.00 (approx. \$1200.00); Vols 4-6, 1989, 12 issues, Dfl. 1455.00 (approx. \$786.50).

Yan has just advanced a method which calculates the Hydrophile-Lipophile properties of amphipathic molecules by simple linear combination of binding orbital.

To sum up, however, colloid and interface science has not been paid due attention to in the P.R. of China. As early as during the "1st Chinese Conference on Colloid and Interface Chemistry" delegates decided to organize a "Chinese Association of Colloid and Interface Chemistry" but up to now, it has not been realized; and the plan to publish a "Journal of Chinese Colloid and Interface Chemistry", which was put forward at the same time, is still a castle in the air, too. There is not any national institute which is especially engaged in colloid and interface science. The "trading wind" in recent years has destructively pounded at the theoretical research which was not yet sufficiently developed. This situation is a matter of concern. Now the government comes to realize the importance of basic theory and plans to take some measures. Research on colloid and interface science, we think, will get a further development."

Europe

Chairman of the *European Colloid and Interface Society* is Prof. M. Corti (University of Pavia, Italy). Vice-chairman is Prof. R.H. Ottewill (University of Bristol, U.K.). General Secretary is Prof. H. Hoffmann (University of Bayreuth, F.R.G.).

Italy

For the term 1989-1990 Prof. E. Santacesaria (Polytechnic of Milan) is Chairman of the *Interdivisional Group for Colloids and Interfaces (GICI)* of the *Italian Chemical Society (SCI)*. Secretary is Prof. S. Ardizzone (University of Milan).

Chemistry of Materials, L.V. Interrante, Ed., Americal Chemical Society. Published bimonthly, subscription price depends on country and membership of ACS (\$49.00 - \$312.00).

Continuum Mechanics and Thermodynamics, Springer Ljmuiden, The Netherlands. Vol. 1, 1989, four issues, DM 298.00 plus carriage charges.

Journal of Aerosol Research Japan, published by Japan Association of Aerosol Science and Technology, c/o The Society of Powder Technology Japan, Shibunkaku-Kaikan, 2-7, Tanakasokiden-cho, Sakyo-ku, Kyoto 606, Japan. Published quarterly. Vol. 1, 1986, \$80.00 per year.

Journal of the European Ceramic Society, R.J. Brook, Ed., Vol. 1, 1989, six issues, £176.00/\$335.00 (U.K. £160.00), Elsevier Barking, U.K.

Journal of Microcolumn Separations, M.L. Lee, Ed., P.O. Box 10460, Eugene, OR 97440, U.S.A. Six issues per year, Vol. 1, 1989, \$215.00/\$149.00.

Journal of Surface Science and Technology, sponsored by the Indian Society for Surface Science and Technology, publishers: Jain-Interscience Press, 5-D Kamla Nagar, Delhi 110007, India. Four issues per year, Vol. 1 (1987/88) \$100.00 (surface mail)/\$110.00 (air mail).

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Hove, M.A. van, W.H. Weinberg and C.M. Chan, Eds., **Low Energy Electron Diffraction: Experiment, Theory and Surface Structure Determination** (Springer Series in Surface Sciences 6), Springer Berlin, F.R.G.

Howorka, F., W. Lindinger and T.D. Maerk, Eds., **Symposium on Atomic and Surface Physics '86**, Inst. Atomphys. Univ. Innsbruck, Austria.

Muralidhara, H.S., Ed., **Advances in Solid-Liquid Separation**, Battelle Columbus, U.S.A., \$120.00.

Muralidhara, H.S., Ed., **Advances in Solid-Liquid Separation: Supplement**, Battelle Columbus, U.S.A., \$26.50.

Vanselow, R., and R. Howe, Eds., **Chemistry and Physics of Solid Surfaces VI** (Springer Series in Surface Science 5), Springer Berlin, F.R.G., DM 149.00.

White, R.E., J. O'M. Bockris and B.E. Conway, Eds., **Modern Aspects of Electrochemistry Vol. 18**, Plenum New York-London, \$66.00 (U.S. and Canada \$55.00).

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Akopyan, M.E., Ed., **IR Spectroscopy in Study of Surface** (in Russian, Advances in Photonics 9), Leningradskii Universitet, U.S.S.R.

Allen, M.P., and D.J. Tildesley, **Computer Simulation of Liquids**, Clarendon Press, U.K., £45.00.

Ben-Naim, A., **Solvation Thermodynamics**, Plenum New York, U.S.A., \$59.40 (U.S. and Canada \$49.50).

Crambach, A., M.J. Dunn and B.J. Radola, Eds., **Advances in Electrophoresis Vol. 1**, VCH Verlag Weinheim, F.R.G.

Dubinin, M.M., V.V. Serpinski and K.O. Murdmaa, Eds., **Adsorption and Adsorbents** (in Russian, proceedings 6th All-Union Conference on Theoretical Aspects of Adsorption) Nauka Moscow, U.S.S.R.

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- Hamilton, R.J., **Thin Layer Chromatography**, Wiley New York, U.S.A.
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- Hunter, R.J., **Foundations on Colloid Science Vol. I**, Clarendon Press, U.K., £75.00.
- Kazarinov, V.E., Ed., **The Interface Structure and Electrochemical Processes at the Boundary Between Two Immiscible Liquids**, Springer Berlin, F.R.G.
- Kopylova, V.D. and A.N. Astanina, **Ion Exchanger Complexes in Catalysis** (in Russian), Khimiya Moscow, U.S.S.R., Rub. 2.00.
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- Nikol'skii, B.P., Ed., **A.N. Frumkin, Selected Works: Electrode Processes** (in Russian), Nauka Moscow, U.S.S.R., Rub. 4.60.
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- Ottenbrite, R.M., L.A. Utracki and T. Inoue, **Current Topics in Polymer Science I and II**, Hanser Verlag München, F.R.G., \$90.00 per volume.
- Serdyuk, A.I. and R.V. Kucher, **Micellar Transitions in Solutions of Surfactants** (in Russian), Naukova Dumka Kiev, U.S.S.R., Rub. 2.80.
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- Attia, Y.A., B.M. Moudgil and S. Chander, **Interfacial Phenomena in Biotechnology and Materials Processing** (Process Technology Proceedings 7), Elsevier Amsterdam, The Netherlands.
- Bauer, R.S., Ed., **Proceedings of the 15th Annual Conference on the Physics and Chemistry of Semiconductor Interfaces**, American Institute of Physics New York, U.S.A.
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- Botsaris, G.D. and Y.M. Glazman, **Interfacial Phenomena in Coal Technology** (Surfactant Science Series 32), Marcel Dekker New York-Basel, \$150.00 (U.S. and Canada \$125.00).
- Bradshaw, A.M., and H. Conrad, Eds., **Vibrations at Surfaces** (proceedings Conference F.R.G. 1987), Elsevier Amsterdam New York, Dfl. 550.00/\$289.50.

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- Bulleit, D.W., M.W. Roberts and R.H. Williams, Eds., **Proceedings of the 7th Interdisciplinary Surface Science Conference (ISSC-7)**, Pergamon Press Oxford, U.K.
- Bunsell, A.R., Ed., **Fibre Reinforcements for Composite Materials** (Composite Materials Series 2), Elsevier Amsterdam, The Netherlands, Dfl. 325.00/\$171.00.
- Campbell, I.M., **Catalysis at Surfaces**, Chapman and Hall, U.K., £24.50 (Hb)/£10.95 (Pb).
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- Dowson, D., C.M. Taylor, M. Godet and D. Berthe, Eds., **Interface Dynamics** (proceedings Symposium 1987), Elsevier Amsterdam, The Netherlands, Dfl. 290.00 (\$152.75).
- Everett, D.H., **Basic Principles of Colloid Science**, Royal Society of Chemistry U.K., £9.95 (\$19.50).
- Flank, W.H. and F.E. White Jr., **Perspectives in Molecular Sieve Science** (ACS Symposium Series 368), ACS Washington, U.S.A.
- Forland, K.S., T. Forland and S.K. Ratkje, **Irreversible Thermodynamics: Theory and Applications**, Wiley Chichester, U.K., £45.00/\$90.00.

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Richter, D., and T. Springer, Eds., **Polymer Motion in Dense Systems** (proceedings Workshop France 1987, Springer Proceedings in Physics 29), Springer Heidelberg, F.R.G., DM 98.00.

Slinyakova, I.B., and T.I. Denisova, **Organosilicon Adsorbents: Production, Properties and Use** (in Russian), Naukova Dumka Kiev, U.S.S.R., Rub. 3.40.

Tadros, Th.F., Ed., **Polymers in Colloid Systems: Adsorption, Stability and Flow** (proceedings IACIS Conference The Netherlands 1987) Elsevier Amsterdam-New York, Dfl. 295.00/\$155.25.

Thrower, P.A., Ed., **Chemistry and Physics of Carbon Vol. 21**, Marcel Dekker New York-Basel, \$162.00 (U.S. and Canada \$135.00).

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Veen, J.F. van der, and M.A. van Hove, Eds., **The Structure of Surfaces II**, Springer Berlin, F.R.G.

Wette, F.W. de, Ed., **Solvay Conference on Surface Science** (Springer Series in Surface Science 14), Springer Berlin, F.R.G., DM 110.00.

Yamanoto, S., K. Nakanishi and R. Matsuno, **Ion-Exchange Chromatography of Proteins** (Chromatographic Science Series 43), Marcel Dekker New York-Basel, \$132.00 (U.S. and Canada \$110.00).

Zangwill, A., **Physics at Surfaces**, Cambridge University Press, U.K.

Zhdanov, V.P., **Elementary Physicochemical Processes on the Surface** (in Russian), Nauka, U.S.S.R.

From Crystalline to Amorphous/Du Cristal à l'Amorphe (in English and French), Les Editions de Physique, Les Ulis, France, 300 F.F.

Les Interfaces et La Liaison Chimique; Interfaces et Microstructures (in French), Les Editions de Physique, Les Ulis, France, 300 F.F.

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El-Nokaly, M., Ed., **Polymer Association Structures: Microemulsion and Liquid Crystals** (ACS Symposium Series 384) ACS Washington, U.S.A., \$95.95.

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Kiselev, V.F., and O.V. Krylov, **Adsorption and Catalysis on Transition Metals and Their Oxides** (Springer Series in Surface Sciences 9), Springer, Berlin, etc., DM 178.00.

Lemstra, P., and L.A. Kleinjies, Eds., **Integration of Fundamental Polymer Science and Technology - 3** (proceedings Rolduc Polymer Meeting-3, April 1988), Elsevier Barking-New York, in preparation.

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Tschoegl, N.W., **The Phenomenological Theory of Linear Viscoelastic Behavior**, Springer Berlin, F.R.G., DM 148.00.

White, J.R., and D. Campbell, **Polymer Characterisation**, Chapman and Hall, U.K., £40.00 Hb/£20.00 Pb.

9 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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