



*International Association of Colloid
and Interface Scientists*

NEWSLETTER NO. 25

January 1996

COMPILED BY J. LYKLEMA

INTERNATIONAL ASSOCIATION OF COLLOID AND INTERFACE SCIENTISTS

NEWSLETTER NO. 25

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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 25 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 assists 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?

From time to time I have received requests to accept commercial advertisements in our Newsletters. As a reaction I have consulted the council members, the

president, the president-elect and some past presidents. The outcome of this consultation is positive, meaning that from NL-26 onward, advertisements will be welcome under certain restrictions. The main reason for this decision is of course that we can in this way increase our funds to foster international co-operation. We are especially thinking of book and journal sellers, organizers of meetings and instrument industries. The rules are as follows:

1. The total space, and distributions of advertisements over the NL should be such that the nature of the NL is not affected. For the same reason, the lettering and style should not differ too much from that of the NL. Texts for advertisements should be delivered camera-ready (black-white).
2. We shall not accept loose inserts.
3. Acceptation of an advertisement does not imply that IACIS endorses the promoted product, or prefers this product over other ones that are not advertised.
4. Advertisement space can be bought per page, half page or quarter page at prices of Dfl. 1500, Dfl. 750 and Dfl. 375, respectively.
5. Advertisements should be such that the rich should not get unreasonably more attention than the poor.
6. The regular departments of the NL remain unaffected.
7. Acceptance is always subject to the discretion of the President.

For your information, we are provisionally thinking of accepting advertisements up to 20% of the space. The president may delegate routine-acceptance cases to the NL-editor.

Having decided all of this you could from now onwards assist IACIS by informing potential advertisers about our new policy, pointing out that in this way they could draw the attention of a select group of prominent colloid and interface scientists all around the world. Those interested could contact the NL-editor.

1.3 Newsletter on Internet?

From several sides I have also been approached with the suggestion to put our Newsletters on Internet, to make them better available. In this respect I have my reservations. The Newsletters are to a large extent the source of our income; if everybody could obtain the information free, IACIS membership might dwindle and our Association would no longer be in a position to foster international co-operation. Another problem is that we draw a not-negligible part of our membership from less-privileged countries, that do not have easy access to Networks. The president and president-elect concur with these reservations. Therefore, for the time being the Newsletters will not be available on Internet. It may of course be added that through friends or colleagues that are members, it is easy to acquire all relevant information, available in our Newsletters.

With best wishes from your Newsletter Editor,

Hans Lyklema

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.

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, Phone 31 (Netherlands) - 317 (area code) - 482279 (extension), Fax 31-317-483777, E-mail fysko@fenk.wau.nl.
(**New telephone and fax numbers!**)

3 IACIS NEWS

3.1 A word from the President

It is now time to send Christmas and New Years greetings to the IACIS members all around the world. In the past IACIS has always tried to build bridges between scientists from different countries and different cultures. Hopefully it will remain so in future.

Let us at this point acknowledge the man who, in making contacts, mutual exchange and tolerance, has achieved the highest possible level: Hans Lyklema. He administratively retired in November 1995 and we hope that his retirement will give him more time to play his unifying role in the coming years.

You are all aware of the next international IACIS meeting that will take place in July 1997 in Sofia. Possibly you are less aware of the huge financial difficulties which our Bulgarian friends are facing at the moment. Could the solidarity of IACIS members play a helpful role in sending information and suggestions about companies or international research programs that could provide some financial help for this important international IACIS meeting?

December 1995

Anne Marie Cazabat

3.2 Financial Report September 1994/September 1995

	in US\$	in Dfl.	in Dfl.
Balance per September 1, 1994		f 8,393	
Reg. fee XIII ECIX to pay to Kiev	\$ 3,440		f 5,504
Receipts			
Membership fee (in Dfl.)		f 8,801	
Membership fee (in US\$)	\$ 849	f 1,358	
Membership fee (cash)		f 512	
Registration fee XIII ECIC	\$ 2,060	f 3,296	
Interest		f 119	
		<u>f 14,086</u>	
			f 27,983

Payments

Sponsoring (NATO Adv. Fine Part./Welt. Conf. Critic)	f 4,035
Printing/paper	f 1,698
Mailing	f 1,167
Costs (cheques, credit cards bank)	f 1,151
Salary secretary	f 3,500
Computers	pro mem.
Reg. fee ECIC	
(minus costs), transferred to Kiev	\$ 5,209 f 8,334
	<u>f 19,885</u>

Balance per September 1, 1995

	<u>f 8,098</u>
	f 27,983

Hungarian Funds	M Forint 165,505.00	=	f 1,971
(M Forint 100 = Dfl. 1.19)			

Amounts are rounded.

For conversion the rate US\$ 1.00 = Dfl. 1.60 is used.

Number of members	September 1, 1994	477
	September 1, 1995	482

3.3 Elections for President-elect and Council

By separate mail all members will receive a call for nominations.

3.4 Proposals for the 10th International Conference on Surface and Colloid Science (2000)

So far the President has received two proposals to host the 10th ICSCS, planned for the year 2000, viz. for Wuhan (P.R. China) and Bristol (U.K.).

There is still time to submit alternatives; those interested should contact our President before June 1st, 1996 (Prof. A.M. Cazabat, Collège de France, Laboratoire de Physique de la Matière Condensée, 11 Place Marcelin Berthelot, 75231 Paris Cedex 05, France, Phone +33 (1) 4427-1281, Fax +33 (1) 4427-1082, E-mail cazabat@ext.jussieu.fr.). After this date the President shall consult the Council about all proposals received and decide to whom the organization of this event will be granted.

4 IACIS-SPONSORED MEETINGS

4.1 International Conferences 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
 8th Conference, Adelaide, Australia, 1994

Future: 9th Conference, Sofia, Bulgaria, 1997
 10th Conference, 2000, under discussion.

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) September-October 1996, Rome (Italy) Electrokinetic Phenomena '96.
- 24) October 1996, Antwerp (Belgium) XIV European Chemistry at Interfaces Conference.

5 IUPAC NEWS

5.1 Names and Addresses of Officers of IUPAC Bodies (1996-1997) (subject to approval by National Adhering Organizations)

Bureau. *President:* Prof. A.E. Fischli, F. Hoffmann-La Roche Ltd., Pharma Research, Grenzacherstraße 124, CH-4002 Basel, Switzerland, Phone +41 (61) 688-2182, Fax +41 (61) 688-1460, E-mail albert.fischli@roche.com.
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. *Chairman:* Prof. G. Somsen, Faculteit der Scheikunde, Vakgroep Fysische en Theoretische Chemie, Vrije Universiteit, De Boelelaan 1083, 1081 HV Amsterdam, The Netherlands, Phone +31 (20) 444-7634, Fax +31 (20) 444-7643, E-mail SOMSEN@CHEM.VU.NL.

Secretary: Dr. Gerd M. Olofsson, Termokemi, Kemacentrum, 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@hplum.cchem.berkeley.edu.
Secretary: Prof. M. Quack, Laboratorium für Physikalische Chemie, Eidgenössische Technische Hochschule-Zentrum, CH-8092 Zürich, Switzerland, Phone +41 (1) 632-4421, Fax +41 (1) 632-1021, E-mail maqu@ir.Lpc.ETHZ.CH.

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. M. Sluyters-Rehbach, Electrochemistry Department, Utrecht University, P.O. Box 80051, 3508 TB Utrecht, The Netherlands, Phone +31 (30) 253-3177, Fax +31 (30) 253-3870, E-mail sluyters@ruu.cvl.chem.ruu.nl.

Commission I.6: Colloid and Surface Chemistry Including Catalysis. *Chairman:* Prof. J. Ralston, Ian Wark Research Institute, University of South Australia, The Levels, South Australia 5095, Australia, Phone +61 (8) 302-3066, Fax +61 (8) 302-3683.

Secretary: Prof. Anne Marie Cazabat, Laboratoire de Physique de la Matière Condensée, Collège de France, 11 place Marcelin Berthelot, F-75231 Paris Cédex 05, France, Phone +33 (1) 4427-1081, Fax +33 (1) 4427-1082, E-mail cazabat@ext.jussieu.fr.

Division IV: Macromolecular. *Chairman:* Prof. J. Economy, Department of Materials Science and Engineering, University of Illinois, 1304 W. Green Street, Urbana, IL 61801, U.S.A., Phone +1 (217) 333-1440, Fax +1 (217) 333-2736, E-mail festes@uxl.cso.uiuc.edu.

Secretary: Prof. J.E. Guillet, Department of Chemistry, University of Toronto, Toronto, Ontario M5S 1A1, Canada, Phone +1 (416) 978-3591, Fax +1 (416) 978-8775, E-mail jguillet@alchemy.chem.utoronto.c.

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) 200-3574/8, Fax +44 (161) 200-3586.

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.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 Moore@wilton.ici.co.uk.

Secretary: Dr. J. Stejskal, Ústav Makromolekulární Chemie, Akademie ved České Republiky, Heyrovského náměstí 2, CZ-16206 Praha 6, Czech Republic, Phone +42 (2) 360-341, Fax +42 (2) 367-981, E-mail stejskal@imc.cas.cz.

Division VI: Chemistry and the Environment. *Chairman:* Prof. 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.

Secretary: Dr. T.R. Roberts, Corning Hazleton, Otley Road, Harrogate, North Yorkshire HG3 1PY, U.K., Phone +44 (1423) 500-011, Fax +44 (1423) 569-595, E-mail troberts@hazle.co.uk.

Commission VI.1: Fundamental Environmental Chemistry. *Chairman:* Dr. H.P. van Leeuwen, Department of Physical and Colloid Chemistry, Wageningen Agricultural University, P.O. Box 8038, 6700 EK Wageningen, The Netherlands, Phone +31 (317) 482269/79, Fax +31 (317) 483777, E-mail Herman@FenK.WAU.NL.

Secretary: Prof. G. Horvai, Általános és Analitikai Kémiai Tanszék, Budapesti Műszaki Egyetem, Gellért tér 4, 11521 Budapest, Hungary, Phone +36 (1) 204-1111, Fax +36 (1) 185-3493, E-mail horvai@CH.BME.HU.

5.2 Commission on Colloid and Surface Chemistry Including Catalysis (I.6)

News regarding the 38th General Assembly in Guildford, U.K., August 1995.

a. Members

The present Commission I.6 has the following members:

Prof. J. Ralston	Chair,	Australia
Prof. A.M. Cazabat	Titular Member	
	Secretary,	
Prof. B. Delmon	Titular Member	France
Dr. L. Koopal	Titular Member	Belgium
Prof. M. Misono	Titular Member	Netherlands
Prof. S. Ardizzone	Titular Member	Japan
Prof. I. Dekany	Ass. Member	Italy
Dr. N. Furlong	Ass. Member	Hungary
Prof. J.A. Pajares	Ass. Member	Australia
Prof. V. Parmon	Ass. Member	Spain
Prof. B. Vincent	Ass. Member	Russia
		U.K.

The meeting was also attended by:

Prof. L. Cascarini de Torre,	Nat. Represent.	Argentina
Prof. E. Barbosa	Nat. Represent.	Portugal
Dr. J. Robinson	Observer	U.S.A.
Prof. R.S. Schonheydt	Observer	Belgium.

b. Completed Projects

- **Thin films and layers:** terminology in relation to their preparation and characterisation: report by Prof. Vincent. Published: PAC 66, pp 1667-1738 (1994).

- **Recommendations for the characterisation of porous solids:** report by Prof. Rouquerol. Published PAC 66, pp 1739-1758 (1994).

- According to the decision taken in Lisbon, a **set of Recommendations** issued by Commission I.6 in the period 1979-1994 (12 papers, all initially published in PAC) has been prepared by Prof. Rouquerol.

Free reprints are available upon request to Prof. J. Rouquerol, CNRS, Centre de Thermodynamique et de Microcalorimétrie, 26 Rue du 141ème R.I.A., 13003 Marseille, France, Phone +33 9128-2053, Fax +33 9150-3829.

c. Subcommittee activities

- **Subcommittee on Environmental Protection: Colloid, Surface and Catalytic Aspects - Prof. Ralston**
Symposia on water pollution (London, September 1992, published in Colloids and Surfaces) and on soil pollution (Madras, India, March 1994) have been organized. Relevant papers from the Madras meeting are being considered for publication in Colloids and Surfaces.
The 2nd International Forum on Environmental Catalysis (IFEC'95) was held in Tokyo, Japan, October 1995, organized by Prof. Misono. Papers will be published in PAC and/or Catalysis Today.

- **Subcommittee on Advanced Materials: Colloid, Surfaces and Catalytic Aspects - Prof. Delmon**
The Manual of Methods and Procedures for Catalyst Characterisation is published in PAC 67, pp 1257-1306, 1995.

Although the Subcommittee on characterisation of porous solids is now dissolved, the series of **COPS meetings** goes on: after COPS III (Marseille, France, 1993, chairman Prof. Rouquerol, proceedings published by Elsevier in Surface Science), the COPS IV meeting will be held in Bath, U.K., September 1996.

d. Starting projects. Two new projects will start:

- **Colloid-chemical and catalytic processes for the control and protection of environmental pollution ("Interface science against pollution")**

Proposal prepared by Dr. Koopal, Prof. Misono, and Prof. Dekany. The project is essentially an extension of the work done by the subcommittee on Environmental protection. As the main activity a meeting is considered in 1997.

- **Pillared clays and other porous layered structures**

Proposal prepared by Prof. Schonheydt. The scope of the study is to propose a consistent nomenclature and terminology, and to define criteria to be fulfilled for a material to be called pillared.

e. Feasibility Studies. The feasibility of four new projects will be investigated:

- **Characterisation of inorganic membranes.** Expected completion date 2000. Contact with the Commission IV about polymeric membranes has been taken. Action by Prof. Delmon in consultation with Prof. Barbosa.

- **Scanning probe microscopy: Force measurement in surface and colloid chemistry.** Coordinator Dr. Furlong, expected completion date 1997. The scope of the proposal is focussed on force measurements. Contact has been made with the Commission on Analytical Chemistry.

- **Interpretation and measurement of electrokinetic phenomena.** Initiated by a letter of Prof. Dukhin, expected completion date 2000. Action by Prof. Ralston.

- **Surface characterisation of pigments and fillers.** Coordinator Prof. Delmon, expected completion date 2000.

f. Joint meetings

Joint meetings were held with Commission I.3 Electrochemistry (e.g. Surface probes and nanostructures) and Commission III.3 Photochemistry (e.g. Photocatalysis in water treatment).

g. Appointments

Prof. Rouquerol has been appointed to the IUPAC Council whilst Prof. Sing has been co-opted as an Associate Member of the Physical Chemistry Division.

Luuk Koopal, Reporter for the IACIS Newsletter
Department of Physical and Colloid Chemistry
Wageningen Agricultural University, The Netherlands

6 CONFERENCES 1996

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 Industrial Water Soluble Polymers, 5-6 March 1996, Manchester, U.K. Contact: N. Smith, Department of Chemistry, UMIST, P.O. Box 88, Manchester M60 1QD, U.K., Phone +44 (161) 200-4415, Fax +44 (161) 228-1250.

6.2 18. Kunststofftechnisches Kolloquium des Instituts für Kunststoffverarbeitung (IKV), 6-8 March 1996, Aachen, Germany. Contact: W. Michaeli, Institut für Kunststoffverarbeitung, Pontstraße 49, 52062 Aachen, Germany. Phone +49 (241) 803-842, Fax +49 (241) 888-8262.

6.3 Nanoparticles in Solids and Solutions - an integrated approach to their preparation and characterization (NATO Advanced Research Workshop, also sponsored by a.o. IACIS), 8-13 March 1996, Szeged, Hungary. Contact: H.J. Fendler, Department of Chemistry, Syracuse University, Syracuse, NY 13244-4100, U.S.A., or I. Dékány, Department of Colloid Chemistry, Attila József University, H-6720 Szeged, Aradi Vértanúk tere. 1, Hungary, Phone +36 (62) 321-347/454-210, Fax +36 (62) 321-347/312-921, E-mail i.dekany@chem.u-szeged.hu.

6.4 Tag der Tenside 1996 mit 3. Wolfgang-Ostwald-Kolloquium: Rheologie flüssiger amphiphiler Systeme, 18-19 March 1996, Dresden, Germany. Contact: H.-D. Dörfler, TU Dresden, Lehrstuhl für Kolloidchemie, Mommsenstraße 13, D-01062 Dresden, Germany. Phone +49 (351) 463-7638/4886, Fax +49 (351) 463-7107.

6.5 European Research Conference on Wetting and Capillarity, 22-27 March 1996, Crete, Greece. Organized by the European Science Foundation. Contact: J. Hendekovic, European Science Foundation, 1 quai Lezay-Marnésia, 67080 Strasbourg Cedex, France, Phone +33 8876-7135, Fax +33 8836-6987, E-mail euresco@esf.c-strasbourg.fr.

6.6 211th ACS National Meeting, 24-29 March 1996, New Orleans, Louisiana, U.S.A. The symposia include: *Division of Colloid and Surface Chemistry*: Contact: J.E. Crowell, Department of Chemistry and Biochemistry, University of California, 9500 Gilman Drive, San Diego, La Jolla, CA 92093-0314, U.S.A., Phone +1 (619) 534-5441, Fax +1 (619) 534-7244, E-mail jcrowell@ucsd.edu or @ucsd.bitnet.

- Surface Science of Catalysis: Fundamentals of Surface Reaction Kinetics.
- Surfactants and Association Colloids: Biomimetic Approaches to Electrochemical Generation of Advanced Materials.
- Molecular Processes at Solid Surfaces.
- Catalysis: Heterogeneous Hydrocarbon Oxidation.
- Environmental Heterogeneous Processes.
- Symposium in Honor of the Retirement of Professor Pasupati Mukerjee.
- Symposium on Heterogeneous Catalysis in Honor of Prof. C.O. Bennett.
- Fundamentals of Colloid and Surface Chemistry: General Papers.

6.7 **Colloidal Aspects of Complex Fluids**, 26-28 March 1996, Cambridge, U.K. Organized by the Colloid and Interface Science Group of the Royal Society of Chemistry. Contact: A.R. Rennie, Polymer and Colloids Group, Cavendish Laboratory, Madingley Road, Cambridge, CB3 0HE, U.K., Phone +44 (1223) 337-012, Fax +44 (1223) 337-000.

6.8 **3rd European Conference on Optical Chemical Sensors and Biosensors**, 31 March - 3 April 1996, Zürich, Switzerland. Contact: MTI, Technopark Zürich, Pfingstweidstraße 30, CH-8005 Zürich, Switzerland.

6.9 **Smart Colloids**, 1-2 April 1996, Bristol, U.K. Organized by the Colloid and Interface Science Group of the Faraday Division of the Royal Society of Chemistry. Contact: J.W. Goodwin, School of Chemistry, University of Bristol, Cantock's Close, Bristol BS8 1TS, U.K.

6.10 **Hydration Processes in Biological and Macromolecular Systems**, 1-3 April 1996, Sheffield, U.K. General Discussion 103 of the Faraday Division of the Royal Society of Chemistry. Contact: S. Riaz, The Royal Society of Chemistry, Burlington House, Piccadilly, London W1V 0BN, U.K., Phone +44 (171) 437-8656, Fax +44 (171) 734-1227.

6.11 **2nd International Conference on the Molar Mass Characterisation of Polymers Molmass '96**, 1-4 April 1996, Windermere, Cumbria, U.K. Contact: Conference Co-ordinator, IRC in Polymer Science and Technology, Horton Building, University of Bradford, Bradford BD7 1DP, U.K. Phone +44 (127) 438-3785, Fax +44 (127) 472-9231.

6.12 **IUPAC Macro Group U.K. Family Meeting**, 10-12 April 1996, Manchester, U.K. Contact: P.M. Budd, Department of Chemistry, University of Manchester, Manchester M13 9PL, U.K., Phone +44 (161) 275-

4711/4706, Fax +44 (161) 275-4598, E-mail Peter. Budd@man.ac.uk.

6.13 **Starch: Structure and Function**, 15-17 April 1996, Cambridge, U.K. Contact: M.A. Staff, Cavendish Laboratory, Madingley Road, Cambridge CB3 0HE, U.K.

6.14 **COST Conference on Organized Structures at Interfaces**, 21-23 April 1996, Stockholm, Sweden. Contact: K. Möller, Institute for Surface Chemistry, P.O. Box 5607, S-114 86 Stockholm, Sweden. Phone +46 (8) 790-9900, Fax +46 (8) 208-998.

6.15 **6th Food Colloids Meeting: Proteins, Lipids and Polysaccharides**, 24-26 April 1996, Lund, Sweden. Contact: B. Bergenstahl, Institute for Surface Chemistry, YKI, P.O. Box 5607, S-114 86 Stockholm, Sweden. Phone +46 (8) 790-9996, Fax +46 (8) 208-998, E-mail bjorn.bergenstahl@surfchem.kth.se.

6.16 **6th International Conference on Composite Interfaces - Microphenomena in Advanced Interfaces**, 5-8 May 1996, Zichron Yaacov, Israel. Contact: Dan Knassim Ltd., P.O. Box 1931, Ramat Gan 52118, Israel. Phone +972 (3) 613-3340, Fax +972 (3) 613-3341.

6.17 **Arbeitstagung zur Kolloid- und Grenzflächenforschung** für junge Wissenschaftler, Postdoktoranden und Doktoranden, die kurz für Beendigung ihrer Arbeit stehen, 9-10 May 1996, Berlin, Germany. Contact: R. Miller, Max-Planck-Institut für Kolloid- und Grenzflächenforschung, Rudower Chaussee 5, D-12489 Berlin-Adlershof, Phone +49 (30) 6392-3135, Fax +49 (30) 6392-3102, E-mail miller@mpikg.fta-berlin.de, or S. Förster, Max-Planck-Institut für Kolloid- und Grenzflächenforschung, Kantstraße 55, D-14513 Teltow-Seehof, Phone +49 (3328) 46259, Fax +49 (3328) 46255, E-mail foerster@castor.mpg-teltow.mpg.de.

6.18 **7th World Filtration Congress**, 20-23 May 1996, Budapest, Hungary. Contact: Magyar Kemikusok Egyesulete, 1027 Budapest, Fou, 68, Hungary, Fax +36 (1) 201-8056.

6.19 **DECHEMA Jahrestagungen '96**, 21-23 May 1996, Wiesbaden, Germany. Subjects a.o.: Membrantechnik, Dispersionen. Contact: DECHEMA e.V. Tagungsbüro, P.O. Box 150-104, D-60061 Frankfurt am Main, Germany.

6.20 **2nd International Symposium on Molecular Order and Mobility in Polymer Systems**, 21-24 May 1996, St. Petersburg, Russia. Contact: I. Kovalenko, or T.M. Birshtein, Institute of Macromolecular Compounds, Bolshoy pr. 31, 199 004 St. Petersburg, Russia, Phone +7 (812) 213-1070/218-8744, Fax +7 (812) 218-6869, E-mail birshtein@macro.lgu.spb.su.

6.21 **11th International Conference on Optical Fiber Sensors OFS-11**, 22-24 May 1996, Sapporo, Japan. Contact: Dr. Noda, Phone +81 (3) 5562-7725.

6.22 **2nd International Symposium on Free Radical Polymerization**, 26-31 May 1996, Genova, Italy. Contact: S. Russo, Inst. Chim. Ind. le Università di Genova, 16132 Genova, Italy, Phone +39 (10) 353-8555, Fax +39 (10) 353-8323, E-mail russo@cisi.unige.it.

6.23 **4th World Congress on Biosensors**, 29-31 May 1996, Bangkok, Thailand. Contact: G. Spear, Elsevier Science Ltd., Conference Department, The Boulevard, Langford Lane, Kidlington, Oxford OX5 1GB, U.K., Phone +44 (1865) 843-643, Fax +44 (1865) 843-972, E-mail g.spear@elsevier.co.uk.

6.24 **Precipitation**, 1-12 June 1996, Brunel, U.K. Contact: I.D. Robb, The North East Wales Institute, Deeside, Kelsterton Road, Connah's Quay, Clwyd CH5 4BR, U.K., Phone +44 (244) 831-531, Fax +44 (244) 814-305.

6.25 **4th AIM Conference on Advanced Topics in Polymer Science**, 2-7 June 1996, Gargnano, Italy. Contact: M. Aglietto, Dipartimento di Chimica e Chimica Industriale, Via Risorgimento, 35-56126 Pisa, Italy, Phone +39 (50) 918-269, Fax +39 (50) 918-260, E-mail aglaim@dec.unipi.it.

6.26 **4th World Surfactant Congress**, 3-7 June 1996, Barcelona, Spain. Contact: Comité Español de la Detergencia, Jordi Girona 18-26, S-08034 Barcelona, Spain, Phone +34 (3) 204-0212/204-0600/400-6100, Fax +34 (3) 280-5300/204-5904.

6.27 **11th International Symposium on Surfactants in Solution: Synergism and Mixtures**, 9-13 June 1996 (*note revised dates!*), Jerusalem, Israel. This conference will bring together over 500 scientists from different disciplines: theoreticians, technologists, physicists, chemists, researchers in the area of life-sciences, pharmaceuticals, cosmetics and food. Contact: Dan Knassim Ltd., P.O. Box 1931, Ramat Gan 52118, Israel, Phone +972 (3) 613-3340, Fax +972 (3) 613-3341.

6.28 **2nd International Conference on NMR Spectroscopy of Cement Based Materials**, 10-11 June 1996, Bergamo, Italy. Contact: L. Baggi, CTG, Via Vivaldi 13, 24125 Bergamo, Italy, Phone +39 (35) 412-6290, Fax +39 (35) 412-6012.

6.29 **Precipitation**, 10-12 June 1996, London, U.K. Organized by the Colloid and Interface Science Group of the Royal Society of Chemistry. Contact: I.C. Callaghan, S.C. Johnson, European R & D Centre, Milton Park, Stroude Road, Egham, Surrey, TW20 9UH, U.K., Fax +44 (1784) 430-244.

6.30 **33rd Annual Meeting of The Clay Minerals Society**, 15-20 June 1996, Gatlinburg, Tennessee, U.S.A. Contact: P.J. Eberl, The Clay Minerals Society, P.O. Box

4416, Boulder, CO 80306, U.S.A., Phone +1 (303) 444-6405, Fax +1 (303) 444-2260.

6.31 **70th Annual Colloid and Surface Science Symposium**, 16-19 June 1996, Potsdam, New York, U.S.A. Organized by the Division of Colloid and Surface Chemistry of the American Chemical Society. List of symposia:

- *Surface and Colloid Science in Materials*. Contact: S.E. Friberg, R.A. Mackay or E. Matijevic, Center for Advanced Materials Processing, Potsdam, NY 13699-5656, U.S.A., Phone +1 (315) 268-7972, Fax +1 (315) 268-7973.
- Emulsions, Microemulsions and Foams.
- Clusters: Their Role in Material Science.
- Self-Assembled Monolayers: New Materials Interfaces.
- Structure and Properties of Gels.
- Synthesis and Properties of Model Catalysts.

Surface and Colloid Science in Medicine and Biology. Contact: G. Forgacs, Clarkson University, P.O. Box 5820, Potsdam, NY 13699-5820, U.S.A., or B. Clarkson, Memorial Sloan-Kettering Cancer Center, 1275 York Avenue, New York, NY 10021, U.S.A.

- Biorecognition at Interfaces.
- Cell Adhesion: Molecular Forces in Bonding and Cytoskeletal Coupling.
- New Views of plasma Membrane Microstructure.
- The Role of Colloids in the Study of Cell Functions.
- Colloidal Aspects of Drug Delivery.

Surface and Colloid Science in Environmental Phenomena. Contact: Ph.K. Hopke, Clarkson U., Box 5810, Potsdam, NY 13699-5810, U.S.A., or Th.L. Theis, Clarkson U., Box 5715, Potsdam, NY 13699-5715, U.S.A.

- Aquasols.
- Surface Catalysis.
- Sorption Phenomena.
- Aerocolloidal Systems.
- Single Particle Surface Chemistry.
- General Papers.

6.32 **International Symposium on Theoretical and Experimental Aspects of Protein Folding**, 17-20 June 1996, San Luis City, Argentina. Contact: J. Vila, IMASL-Universidad Nacional de San Luis, Ejército de Los Andes 950, 5700 San Luis, Argentina.

6.33 **Electrical and Related Properties of Organic Solids ERPOS**, 18-22 June 1996, Polanica Zdrój, Poland. Contact: A. Lewanowicz, Institute of Physical and Theoretical Chemistry, Technical University of Wrocław. Wybrzeże Wyspiańskiego 27, 50370 Wrocław, Poland, Fax +48 (71) 203-364, E-mail erpos@kchf.ch.pwr.wroc.pl.

6.34 **Biannual meeting of the International Association for Water Quality**, 23-26 June 1996, Singapore. Contact: International Association for Water Quality, 1 Queen Anne's Gate, London SW 1H 9BT, U.K., Fax +44 (171) 233-1197.

6.35 **Recent Advances in Polymeric Dispersions** (NATO Advanced Study Institute), 23 June - 5 July 1996, Elizondo, Navarra, Spain. Contact: J.M. Asua, Facultad de Ciencias Químicas, Universidad del País Vasco, Apdo 1072, 20080 San Sebastián, Spain, Phone +34 (43) 216-600, Fax +34 (43) 212-236, E-mail QPPasgoj@SQ.EHU.ES.

6.36 **Dynamics of Complex Fluids** (Royal Society - Unilever Indo-UK Forum), 24-28 June 1996, Cambridge, U.K. Contact: M.A. Staff, Polymers and Colloids Group, Cavendish Laboratory, Madingley Road, Cambridge, CB3 0HE, U.K., Phone +44 (1223) 337-007, Fax +44 (1223) 337-000.

6.37 **7th International Conference on Polymer Supported Reactions in Organic Chemistry POC'96**, 24-28 June 1996, Wrocław, Poland. Contact: R. Bogoczek, Katedra Technologii Przemysłu Chemicznego, Akademia Ekonomiczna we Wrocławiu, Ul. Komandorska 118-120, 53345 Wrocław, Poland, Phone +48 (71) 680-275, Fax +48 (71) 672-778, E-mail bogorom@alpha.ok.ue.wroc.pl.

6.38 **11th International Conference on Surface Forces**, 25-29 June 1996, Moscow, Russia. Contact: L.B. Boinovich or N.V. Churaev, Russian Academy of Sciences, Institute of Physical Chemistry, Leninsky Prospekt 31, 117 915 Moscow, Russia, Phone +7 (095) 955-4625/955-4628, Fax +7 (095) 952-5308, E-mail CHURAEV@lmm.phyche.msk.su.

6.39 **11th International Congress on Catalysis ICC**, 30 June - 5 July 1996, Baltimore, U.S.A. Contact: K.C. Taylor, Department of Physical Chemistry, General Motors NAO R&D Center, 30500 Mound Road, Warren, MI 48090-9055, U.S.A., Phone +1 (810) 986-2010, Fax +1 (810) 986-8697, E-mail ktaylor@cmsa.gmr.com.

6.40 **9th International Symposium on Polymer Analysis and Characterization ISPAC-9**, 1-3 July 1996, Oxford, U.K. Contact: J.V. Dawkins, Department of Chemistry, Loughborough University of Technology, Loughborough, Leicestershire LE11 3TU, U.K., Phone +44 (1509) 222-552, Fax +44 (1509) 233-163.

6.41 **1st International Conference on Polymer-Solvent Complexes and Intercalates**, 1-5 July 1996, Meyrueis (Lozère), France. Contact: A. Saiani or J.M. Guenet, Laboratoire d'Ultrasons et de Dynamique des Fluides Complexes, Université Louis Pasteur, CNRS URA 851, 4 rue Blaise Pascal, F-67070 Strasbourg, France, Fax +33 8860-1380, E-mail saiani@fresnel.u-strasbg.fr.

6.42 **3rd Liquid Matter Conference**, 6-10 July 1996, Norwich, U.K. Contact: P.S. Salmon, School of Physics, University of East Anglia, Norwich, NR4 7TJ, U.K., Phone +44 (1603) 593-537, Fax +44 (1603) 592-263, E-mail LIQUID.MATTER@UEA.AC.UK.

6.43 **37th Microsymposium on Macromolecules (Bio)degradable Polymers: Chemical, Biological and Environmental Aspects**, 15-18 July 1996, Prague, Czech Republic. Contact: B. Valter or J. Kahovec, Institute of

Macromolecular Chemistry, Academy of Sciences of the Czech Republic, Heyrovského nám 2, 162 06 Prague c-Petriny, Czech Republic, Phone +42 (2) 360-3419, Fax +42 (2) 360-7981.

6.44 **Chemistry at Interfaces** (Gordon Research Conference), 21-26 July 1996, Meriden, New Hampshire, U.S.A. Contact: J. Texter, Eastman Kodak Company, Rochester, NY 14652-3712, U.S.A., Phone +1 (716) 477-3019, Fax +1 (716) 477-3029, E-mail Texter@Kodak.com.

6.45 **7th International Symposium on Solubility Phenomena**, 22-25 July 1996, Leoben, Austria. IUPAC sponsored. Contact: E. Königsberger, Abteilung für Physikalische Chemie, Montanuniversität Leoben, A-7800 Leoben, Austria, Fax +43 (384) 240-2308, E-mail koenigsb@unileoben.ac.at.

6.46 **Novel Polymer Synthesis**, 29 July - 2 August 1996, York, U.K. Contact: P. Hodge, Department of Chemistry, University of Manchester, Manchester M13 9PL, U.K.

6.47 **36th IUPAC International Symposium on Macromolecules**, 4-9 August 1996, Seoul, Republic of Korea. Contact: K.U. Kim, Division of Polymers, Korea Institute of Science and Technology, P.O. Box 131, Cheongryang, Seoul 130 650, Republic of Korea, Phone +82 (2) 957-6104, Fax +82 (2) 957-6105, E-mail iupac@kistmail.kist.re.kr.

6.48 **International Congress on Membranes and Membrane Processes ICOM '96**, 18-23 August 1996, Yokohama, Japan. Contact: International Communications Specialists, Inc., Kasho Building, 2-14-9 Nihombashi, Chuo-ku, Tokyo 103, Japan, Phone +81 (3) 3272-7981, Fax +81 (3) 3273-2445.

6.49 **12th International Congress on Rheology**, 18-23 August 1996, Quebec City, Canada. Contact: M. Dumoulin, National Research Council Canada, Industrial Materials Institute, 75 de Mortagne, Boucherville, Quebec J4B 6Y4,

Canada, Fax +1 (514) 641-5103, E-mail Michel.Dummoulin@NRC.CA.

6.50 212th ACS National Meeting. 25-30 August 1996, Orlando, Florida, U.S.A. The symposia include:

Division of Colloid and Surface Chemistry: Contact: J.E. Crowell, Department of Chemistry and Biochemistry, University of California at San Diego, La Jolla, CA 92093-0314, U.S.A., Phone +1 (619) 534-5441, Fax +1 (619) 534-7244, E-mail jcrowell@ucsd.edu or @ucsd.bitnet.

- Electrochemical Surface Science: Electrochemical Surface Science in the International Scene.
- Colloidal Particles: Colloid-Polymer Interactions.
- Surfactants and Association Colloids: Expressions of Order and Structure in Interfacial Systems.
- Proteins at Interfaces.
- Catalysis: Chiral Catalysis.
- Self-Assembly in Solution.
- Expressions of Order and Structure in Interfacial Systems.
- Fundamentals of Colloid and Surface Chemistry: General Papers/Poster Session.

Division of Environmental Chemistry:

- Fundamentals of Membrane Separation Processes in Aquatic Systems. Contact: M. Elimelech, Department of Civil and Environmental Engineering, 5732 Boelter Hall, UCLA, Los Angeles, CA 90095-1593, U.S.A., Phone +1 (310) 825-1774, Fax +1 (310) 206-2222, E-mail elim@scas.ucla.edu.

- Interfacial Aspects of Multicomponent Polymer Systems. Contact: T.P. Russell, IBM Almaden Center K13/801, 650 Harry Road, San Jose, CA 95120-6099, Phone +1 (408) 927-1638, Fax +1 (408) 927-3310, E-mail: trussell@almaden.ibm.com.

6.51 14th IUPAC Conference on Chemical Thermodynamics ICCT-96, 25-30 August 1996, Osaka, Japan.

Contact: M. Sorai, Microcalorimetry Research Center, Faculty of Science, Osaka University, Toyonaka, Osaka 560, Japan, Phone +81 (6) 850-5523, Fax +81 (6) 850-5526/5288, E-mail icct96@chem.sci.osaka-u.ac.jp.

6.52 10th Anniversary ECIS (European Colloid and Interface Society) Conference, 2-6 September 1996, Åbo, (Turku), Finland. Contact: J.B. Rosenholm, Department of Physical Chemistry, Porthansgatan 3-5, SF-20500 Turku, Finland, Phone +358 (21) 654-254, Fax +358 (21) 654-706, E-mail ECIS96@abo.fi.

6.53 International Conference on the Science and Technology of Adhesive Bonding Adhesion '96/EURADH '96, 3-6 September 1996, Cambridge, U.K. Contact: Conference Department, Institute of Materials, 1 Carlton House Terrace, London SW1Y 5DB, U.K., Phone +44 (171) 839-4071, Fax +44 (171) 839-1702.

6.54 European Aerosol Conference, 9-12 September 1996, Delft, The Netherlands. Contact: Congress Office Technical University Delft, Aula, Mekelweg 5, 2628 CC Delft, The Netherlands, Fax +31 (15) 278-6755.

6.55 4th International Symposium on Evaluation of Reservoir Wettability and Its Effects on Oil Recovery. 11-13 September 1996, Montpellier, France. Contact: L. Cuiec, Institut Français du Pétrole, 1 et 4 Avenue de Bois Préau, 92506 Rueil Malmaison Cédex, France, Phone +33 (1) 4752-6303, Fax +33 (1) 4752-7072, E-mail Toulhoat@R7.IFP.FR.

6.56 Water Soluble Polymers. 11-13 September 1996, Wrexham, Clwyd, U.K. Organized by the Colloid and Interface Science Group of the Royal Society of Chemistry. Contact: I.D. Robb, The North East Wales Institute, Plas Coch Wrexham, LL11 2AW, U.K., Phone +44 (1978) 293-133, Fax +44 (1978) 290-008, E-mail robbi@delta.newi.ac.uk.

6.57 **Complex Fluids at Interfaces**, 18-20 September 1996 (provisional), Cambridge, U.K. General Discussion 104 of the Faraday Division of the Royal Society of Chemistry. Contact: D.J. Tildesley, Department of Chemistry, The University of Southampton, SO17 1BJ, U.K.

6.58 **7th Conference of Colloid Chemistry, in Memoriam of Professor Aladár von Buzágh**, with international participation, 23-26 September 1996 (*note revised dates!*), Eger, Hungary. Contact: L.G. Nagy, Department of Physical Chemistry, Technical University of Budapest, Hungary, Phone +36 (1) 463-2909, Fax +36 (1) 463-3939.

6.59 **International Symposium on Polycondensation, Related Processes and Materials, honoring Professor Ernest Maréchal**, 23-26 September 1996, Paris, France. Contact: A. Fradet, Synthèse Macromoléculaire, Case 184, Université Pierre et Marie Curie, 4 place Jussieu, F-75252 Paris Cédex 05, France, Phone +33 (1) 7802-2078, Fax +33 (1) 4427-7054, E-mail sym@ccr.jussieu.fr.

6.60 **Electrokinetic Phenomena '96**, 30 September - 4 October 1996, Rome, Italy. IACIS sponsored. Contact: F. Bordi, Dipartimento di Fisica, Università di Roma "La Sapienza", Piazzale Aldo Moro, 5, I-00185 Rome, Italy, Phone +39 (6) 4991-3486, Fax +39 (6) 446-3158, E-mail Bordi @Roma1.infn.it.

6.61 **European Research Conference on Physical Metallurgy: Interfacial Engineering in Materials**, 9-14 October 1996, Castelvecchio Pascoli, Italy. Organized by the European Science Foundation. Contact: J. Hendekovic, European Science Foundation, 1 quai Lezay-Marnésia, 67080 Strasbourg Cedex, France, Phone +33 8876-7135, Fax +33 8836-6987, E-mail euresco@esf.c-strasbourg.fr.

6.62 **4. Wolfgang-Ostwald-Kolloquium der Kolloid-gesellschaft aus Anlaß des 60. Geburtstages von Dr. Dieter Horn: Modifizierung von Grenzflächen durch Makromoleküle**, 11-12 October 1996, Garching, Germany. Contact: E. Killmann, Institut für Technische Chemie, Technische Universität München, Lichtenbergstraße 4, D-85747 Garching, Germany, Phone +49 (89) 3209-3585/3571, Fax +49 (89) 3209-3562.

6.63 **ACS Meeting on Polymer Surfaces**, 20-23 October 1996, Tampa, Florida, U.S.A. Contact: S.H. Anastasiadis, Foundation for Research and Technology - Hellas, Institute of Electronic Structure and Laser, P.O. Box 1527, 71110 Heraklion Crete, Greece, Phone +30 (81) 391-466/300, Fax +30 (81) 391-305, E-mail spiros@iesl.forth.gr.

6.64 **XIV ECIC European Chemistry at Interfaces Conference**, with international participation, 21-25 October 1996, Antwerp, Belgium. IACIS sponsored. Contact: M. Stalmans, University of Antwerp (UIA), Department of Chemistry, Universiteits 1, B-2610 Antwerpen-Wilrijk, Belgium, Phone +32 (3) 820-2375, Fax +32 (3) 820-2374, E-mail evansant@schs.uia.ac.be.

6.65 **XI International Conference on Surface Forces, devoted to the memory of B.V. Deryagin**, November 1996, Moscow, Russia. Contact: N.V. Churaev, Academy of Sciences, Institute of Physical Chemistry, Leninskii Prospekt 31, Moscow 117 915, Russia, Phone +7 (095) 230-2332, Fax +7 (095) 234-0014-628, Telex RESUM SU 411-029.

Preview 1997 and later

6.66 **213th ACS National Meeting**, 13-17 April 1997, San Francisco, California, U.S.A. The symposia include:

Division of Colloid and Surface Chemistry: Contact: J.E. Crowell, Department of Chemistry and Biochemistry, University of California at San Diego, La Jolla, CA 92093-0314, U.S.A., Phone +1 (619) 534-5441, Fax +1 (619) 534-7244, E-mail jcrowell@ucsd.edu or @ucsd.bitnet.

- New Concepts in Surface Science.
- Colloid and Surface Chemistry of Advanced Materials: Surface Modification for Light Emission.
- Catalysis: Sol-Gel Synthesis of Catalysts.
- Fundamentals of Colloid and Surface Chemistry: General Papers/Poster Session.

6.67 **71st Colloid and Surface Science Symposium**, 29 June - 2 July 1997, Newark DE, U.S.A. Contact: E.W. Kaler, Department of Chemical Engineering, Colburn Laboratory, University of Delaware, Newark, DE 19716, U.S.A., Phone +1 (302) 831-3553, Fax +1 (302) 831-4466, or R. Nelson, DuPont Company, Building 304, Room A-305, P.O. Box 80304, Wilmington, DE 19880-0304, U.S.A., Phone +1 (302) 695-3043/-2504.

6.68 **9th International IACIS Conference on Colloid and Interface Science**, 6-12 July 1997, Sofia, Bulgaria. IACIS members will be allowed a discount on the conference fee. Contact: D. Platikanov or D. Exerowa, Institute of Physical Chemistry, Bulgarian Academy of Sciences, BG-1113 Sofia, Bulgaria, Phone +359 (2) 727-550, Fax +359 (2) 720-038, E-mail icscs97@ipchp.virbus.bg.

6.69 **3rd International Conference on Materials Chemistry**, 14-18 July 1997, Sheffield, U.K. Contact: Contact: S. Riaz, The Royal Society of Chemistry, Burlington House, Piccadilly, London W1V 0BN, U.K., Phone +44 (171) 437-8656, Fax +44 (171) 734-1227.

6.70 **214th ACS National Meeting**, 7-11 September 1997, Las Vegas, Nevada, U.S.A. The symposia include:

Division of Colloid and Surface Chemistry: Contact: J.E. Crowell, Department of Chemistry and Biochemistry, University of California at San Diego, La Jolla, CA 92093-0314, U.S.A., Phone +1 (619) 534-5441, Fax +1 (619) 534-7244, E-mail jcrowell@ucsd.edu or @ucsd.bitnet.

- Catalysis: Catalyst Design and Preparation for Industrial Applications.
- Fundamentals of Colloid and Surface Chemistry: General Papers/Poster Session.

6.71 **2nd International Conference on Emulsion**, 23-26 September 1997, Bordeaux, France. Contact: Comité Mondial de l'Emulsion, 50 place Marcel Pagnol, 92100 Boulogne Billancourt, France, Phone +33 (1) 4761-7689, Fax +33 (1) 4761-7465.

6.72 **38. Hauptversammlung Kolloidgesellschaft** (with international participation), 28 September - 2 October 1997, Essen, Germany. Main theme: Structure and Dynamics of Disperse Systems. Contact: G. Peschel, Institut für Physikalische und Theoretische Chemie, or H. Rehage, Institut für Umweltanalytik, Universität Gesamthochschule Essen, Germany.

6.73 **International Symposium on Advances in Polymer Science and Technology MACRO'98**, January 1998, Madras, India. Contact: K.S.V. Srinivasan, Polymer Division, Central Leather Research Institute, Adyar, Madras 600-020, India, Phone +91 (44) 491-1386, Fax +91 (44) 491-1589, E-mail clri.sinetm.emet.in, or H. Kothandaraman, Department of Polymer Science, University of Madras, Guindy Campus, Madras-25, India, Phone +91 (44) 235-1269 ext. 215, Fax +91 (44) 566-693.

6.74 **72nd Colloid and Surface Science Symposium**, June 1998, University Park PA, U.S.A. Contact: N. Nagarajan, 158 Fenske Laboratory, The Pennsylvania

State University, University Park, PA 16802-4400, U.S.A.,
Phone +1 (814) 865-2574, Fax +1 (814) 865-7846.

6.75 **4th World Congress on Particle Technology**, 13-15 July 1998, Birmingham, U.K. Contact: Contact: S. Riaz, The Royal Society of Chemistry, Burlington House, Piccadilly, London W1V 0BN, U.K., Phone +44 (171) 437-8656, Fax +44 (171) 734-1227.

6.76 **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.

6.77 **XV European Chemistry at Interfaces Conference**, 25-30 October 1998, Jerusalem, Israel. Contact: S. Magdassi, The Hebrew University of Jerusalem, Casali Institute of Applied Chemistry, Givat Ram Campus, Jerusalem 91904, Israel, Phone +972 (2) 584-526/586-743, Fax +972 (2) 528-250.

6.78 **39. Hauptversammlung Kolloidgesellschaft** (with international participation), September-October 1999 (*provisional*), Würzburg, Germany.

6.79 **10th International Conference on Surface and Colloid Science**, 2000. See item 3.4 of this Newsletter.

6.80 **ACS National Meetings**

215th 29 March - 3 April 1998, St. Louis, Missouri
216th 23-28 August 1998, Orlando, Florida
217th 21-26 March 1999, Anaheim, California
218th 22-27 August 1999, New Orleans, Louisiana
219th 26-31 March 2000, Las Vegas, Nevada
220th 20-25 August 2000, Washington DC
221st 1-6 April 2001, San Francisco, California
222nd 19-24 August 2001, Chicago, Illinois.

7 **REGIONAL AND PERSONAL NEWS**

7.1 **Personal News**

IACIS regrets to report the sudden death, at the age of 57, of **Professor V.M. Muller**, Institute of Physical Chemistry of the Russian Academy of Sciences, Moscow. In the next Newsletter we hope to present an obituary.

Obituary

Professor Alexei Scheludko (1920-1995)

On the 8th of May last year the outstanding Bulgarian scientist Professor Alexei Scheludko died just ten days before reaching his seventy-fifth birthday.

The distinguished career of this eminent scientist began in 1948 when, after graduating in chemistry from the University of Sofia, he became a lecturer in the Department of Physical Chemistry at this University. He received his Ph.D. from the University of Sofia and his Dr.Sc. from the Academy of Sciences. In 1962 he became professor and up to 1989 he was head of the Department of Physical Chemistry at his Alma Mater while simultaneously continuing his scientific activities at the Bulgarian Academy of Sciences. Here, in 1958, he founded the Department of Colloid and Interface Science at the Institute of Physical Chemistry, where he was head from 1958-1982. Within a short space of time he became internationally known as one of the leading colloid and interface scientists.

The wide ranging topics of Alexei Scheludko's research activities may be divided into several areas. One of these concerns his studies on thin liquid films, comprising foam films and wetting films, which include hydrodynamics of thinning and rupture, surface forces and disjoining

pressures in films, film tension, contact angles and line tension of films. With several pioneering works he initiated studies on the electro-optics of colloid dispersions. Contributions to the surface properties of surfactant solutions, including surface capillary waves appeared. His studies on three-phase contact stimulated applied research on mineral processing and flotation. In recent years he devoted his time to studying condensation of vapours and heterogeneous nucleation. In all these areas he developed many new experimental methods and ingenious techniques based on original ideas. Moreover Professor Scheludko made essential contributions to the teaching of colloid science with his textbook "Colloid Chemistry" published in English, Russian, Japanese, Polish and Bulgarian.

Great consistency in solving scientific problems and ingenuity and resourcefulness in setting up experiments, were the characteristics of the work of Alexei Scheludko which ensured the success in his scientific research. However, before everything else, we must place the richness of his ideas. His great enthusiasm for science did not hinder his active involvement in public life and his passion for classical music and mountaineering. He enjoyed scientific research as much as the music of Bach and the charms of the Rila mountains and its lakes. In the harmony between scientific ideas and the solution of scientific problems, Alexei Scheludko saw the beauty which moulds scientific research into a piece of art.

Professor Scheludko could not tolerate mediocrity and mediocrity was afraid of him. As mediocrity is the background of dictatorship, Alexei Scheludko was a staunch fighter against it. He was among the leading Bulgarian intellectuals and a dissident like Sakharov.

Professor Scheludko has rendered great service to the creation and development of international contacts and co-operation in colloid science. He has been instrumental in founding IACIS, having been twice elected a member of its

council. He also was a member of the IUPAC Commission on Colloid and Surface Chemistry and an editorial board member of several major international journals: *Advances in Colloid and Interface Science*, *Colloid & Polymer Science*, *Langmuir*, *Colloids and Surfaces*, and *Journal of Dispersion Science and Technology*. It is especially worth noting that he contributed very much to the development of close, friendly and useful relations between scientists from West and East during the gloomy years of the Cold War.

The death of Alexei Scheludko is a great loss for colloid and surface science but he continues to live on through his publications. It was our privilege to learn from, and work with, this man. May his memory live forever!

Dimo Platikanov and Dotchi Exerowa

Obituary

Professor Eiji Suito (1912-1995)

With deep regret we announce that Professor Eiji Suito, one of the founders of colloid and surface science in Japan, passed away on July 6th, 1995 at the age of 83. He was the first chairman of the Division of Colloid and Surface Chemistry of the Chemical Society of Japan, founded in 1976, and hosted as honorary chairman the 6th International Conference on Surface and Colloid Science in Hakone (1988), Japan.

Professor Suito was born in Kobe in 1912, and graduated from Kyoto University, Department of Chemistry, in 1936. His Ph.D. thesis concerned the analysis of chemical reactions with colloidal platinum catalysts. After receiving his Ph.D. degree in 1942 he moved to the Institute for Chemical Research at the same University as a lecturer and was promoted to associate professor in 1945. There, he carried out pioneering studies on the physical chemistry of inorganic colloidal particles. In particular, his

results on calcium carbonate contributed much to different industrial applications. Dr. Suito was promoted to professor in 1951 and founded a laboratory of particulate chemistry. His research was characterized by the combination of colloidal dispersions with electron microscopy, for the results of which he received many awards from the Chemical Society of Japan, and other learned Societies. He was elected a member of the Science Council of Japan and acted as the director of the Institute for Chemical Research, Kyoto University, for several years, contributing greatly to the development of science and technology in Japan.

After his retirement in 1975 Professor Suito was for two years active at the Osaka Institute of Technology as professor and then at the Maizuru National College of Technology as president, until his final retirement in 1985.

Ayao Kitahara and Shinnosuke Usui

7.2 International and Regional News

Germany

Prof.dr. M.J. Schwuger is chairman of the **Kolloid-gesellschaft**; secretary-treasurer is Prof.dr. G. Lagaly. Institut für Anorganische Chemie, Christian Albrechts Universität, Kiel, Germany. There are 321 members from 21 countries (Austria 7, Belgium 1, Brasil 2, Bulgaria 3, Canada 1, Czech Republic 1, Croatia 5, Egypt 1, Finland 1, France 1, Germany 258, Great-Britain 3, Hungary 8, Italy 1, Japan 2, Poland 2, Romania 2, Sweden 2, Switzerland 10, The Netherlands 8, U.S.A. 2).

U.K.

The Officers of the **Colloid and Interface Science Group of the Royal Society of Chemistry** for 1995 are: Dr. R. Buscall Chairman, Dr. P. Williams Honorary Treasurer, and Dr. J.W. Goodwin Newsletter Editor. Honorary Secretary is Dr. I.D. Robb, North East Wales Institute, Connah's Quay, Deeside, Clwyd, CH5 4BR, U.K., Phone +44 (244) 831-531, Fax +44 (244) 814-305.

U.S.A.

The Officers of the **Colloid and Surface Chemistry Division of the American Chemical Society** for 1995 are Jay B. Benziger, Chairman, Anastasia Morfesis, Chairman-elect, Noel H. Turner, Vice-Chairman, and Scott F. Mitchell, Newsletter Editor. Secretary is Lisa B. Quencer, The Dow Chemical Company, Larkin Laboratory, 1691 N. Swcde, Midland, MI 48674, U.S.A., Phone +1 (517) 636-5619, Fax +1 (517) 638-9241, E-mail bqencer@dow.com.

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.

8.1 New Journals

The journal Composites Manufacturing will be incorporated into **Composites** to become **Composites Part A: Applied Science and Manufacturing**. Editors M.G. Bader, T.G.

Gutowski, K.T. Kedward and Y. Sawada. Vol. 27A (1996) £600.00/US\$954.00 (Associated Personal Subscription £103.00/US\$164.00).

The journal Composites Engineering will become **Composites Part B: Engineering**. Editor: D. Hui. Vol. 27B (1996) £500.00/ US\$795.00 (Associated Personal Subscription £67.00/ US\$107.00).

Joint subscription to Parts A and B at a 5% saving. Elsevier, Oxford, U.K.

Other Composite Journals also available: **Composite Science and Technology** (1996: Volume 56) and **Composite Structures** (1996: Volume 34).

Current Opinions in Colloid & Interface Science, E.W. Kaler and B.H. Robinson, eds., Current Science Group, London, U.K., Vol. 1 (1996) six issues, £120.00 (personal)/£360.00 (institutional)/£53.00 (student), plus postage £10.50 (U.K.)/ £16.50 (Europe)/£26.00 (rest of the world).

Current Opinions in Solid State & Materials Science, A.K. Cheetham, H. Inokuchi and J.M. Thomas, eds., Current Science Group, London, U.K., Vol. 1 (1996) six issues, £120.00 (personal), £360.00 (institutional), £53.00 (student), plus postage £10.50 (U.K.)/ £16.50 (Europe)/£26.00 (rest of the world).

Tribology Letters, N.D. Spencer and W.T. Tysoe, eds., Baltzer Science Publishers, Amsterdam, The Netherlands, Vol. 1 (1995) four issues, SFr.265.00/US\$237.00 (personal), SFr.354.00/US\$316.00 (institutional), prices include postage.

8.2 Books 1994

Aharoni, S.M., and Edwards, S.F., **Rigid Polymer Networks**, (Advances in Polymer Science 118), Springer, DM208.00, £90.50, FF784.00, öS1622.40, sFr196.00, ISBN 3-540-58340-8.

Belissent-Funel, M.-C., and Dore, J.C., eds., **Hydrogen Bond Networks**, (Proceedings of a meeting held in Cargèse, France, August 1993; NATO ASI Series C, Mathematical and Physical Sciences, 435), Kluwer, Dfl.395.00/£158.00, ISBN 0-7923-2884-1.

Dautzenberg, H., Jaeger, W., Koetz, J., Philipp, B., Seidel, Ch., and Stscherbina, D., **Polyelectrolytes: Formation, Characterization and Application**, Carl Hanser Verlag, DM168.00/US\$98.50/£75.00, ISBN 3-446-17127-4.

Davies, G.J., and Williams, R.H., eds., **Semiconductor Growth, Surfaces and Interfaces**, Chapman & Hall, New York NY, U.S.A.

Fraissard, J.P., and Petrakis, L., **Acidity and Basicity of Solids: Theory, Assessment and Utility**, (Proceedings of a meeting held near Nice, France, June 1993; NATO ASI Series. C, Mathematical and Physical Sciences, 444), Kluwer, Dfl.295.00/£121.00, ISBN 0-7923-3110-9.

Hendra, P.J., and Agbenyega, J.K., eds., **The Raman Spectra of Polymers**, John Wiley, New York NY, U.S.A., US\$145.00.

Hergenrother, P.M., ed., **High Performance Polymers** (Advances in Polymer Science 117), Springer, DM248.00 / £108.00 / FF935.00 / ÖS1934.40 / SFr234.00, ISBN 3-540-58238-X.

Knoll, W. et al., eds., **Supramolecular Science Vols. 1 and 2**, Elsevier, £170.00, ISBN 0968 5677.

Lengeler, B., Lueth, H., Moench, W., and Pollmann, J., eds., **Formation of Semiconductor Interfaces** (Proceedings 4th International Conference, Jülich, Germany, June 1993), World Science, Singapore, Singapore.

National Research Council, **Polymer Science and Engineering: the Shifting Research Frontiers**, National Academy Press, Washington DC, U.S.A., US\$34.95.

Ohashi, Y., ed., **Reactivity in Molecular Crystals**, VCH Publishers, Deerfield Beach FL, U.S.A., US\$130.00.

Paunovic, M., ed., **Proceedings Second Symposium on Electrochemically Deposited Thin Films**, held during the Fall 1994 meeting of the Electrochemical Society, Miami Beach, Florida, U.S.A., Electrochemical Society, Pennington NJ, U.S.A.

Percec, V., and Penn, L., eds., **Liquid Crystalline Polymers, Structure and Dynamics and Controlled Chemical Modification of Polymer Surfaces**, (Polym. Adv. Technol. 1994 5/12) Wiley, Chichester, U.K.

Prutton, M., **Introduction to Surface Physics**, Oxford University Press, Oxford, U.K.

Tadros, Th.F., and Agterof, W.G.M., eds., **A Collection of Papers Dedicated to the Memory of F. van Voorst Vader** (Colloids Surfaces A, 1994, 85/2-3), Elsevier, Amsterdam, The Netherlands.

Tadros, Th.F., and Higashitani, K., eds., **Selected Reviews from the Second Nishin Engineering Particle Technology International Seminar** (Adv. Colloid Interface Sci. 1994, 53), Elsevier, Amsterdam, The Netherlands.

Valenzuela, R., ed., **Magnetic Ceramics**, Cambridge University Press, £30.00, ISBN 0521 36485X.

Vancos, G.J., ed., **Atomic Force Microscopy** (papers presented at the 67th ACS Colloid and Surface Science Symposium on Atomic Force Microscopy, Toronto, Canada, June 1993; Colloids Surfaces A, 1994, 87/3), Elsevier, Amsterdam, The Netherlands.

Wipff, G., ed., **Computational Approaches in Supramolecular Chemistry**, (Proceedings of a meeting held near Strasbourg, France, September 1993; NATO ASI Series C, Mathematical and Physical Sciences, 427), Kluwer, Dfl.360.00/£137.00, ISBN 0-7923-2767-5.

8.3 Books 1995

Appell, J., and Porte, G., eds., **Trends in Colloid and Interface Science IX**, Springer, DM178.00 / £77.50 / FF671.00 / ÖS1388.50 / SFr168.00, ISBN 3-7985-1031-8.

Augustine, R.L., **Heterogeneous Catalysis for the Synthetic Chemist**, Marcel Dekker, US\$125.00, ISBN 0-8247-9021-9.

Barnes, A.V., Tolk, N.H., and Nordlander, P., eds., **Inelastic Ion-surface Collisions** (Proceedings 10th International Workshop, Wyoming, U.S.A., August 1994), North-Holland, Amsterdam, The Netherlands.

Behm, R.J., and Heinz, K., eds., **Surface Reconstruction: Structure and Dynamics** (Proceedings International Workshop, Erlangen, Germany, April 1994), North-Holland, Amsterdam, The Netherlands.

Beyer, H.K., Karge, H.G., Kiricsi, I., and Nagy, J.B., **Catalysis by Microporous Materials**, Elsevier, Dfl.495.00/US\$291.25, ISBN 0-444-82049-3.

Binder, K., Bowker, M., Inglesfield, J.F., and Rous, P.J., **Cohesion and Structure of Surfaces Vol. 4**, North-Holland/Elsevier, Dfl.285.00/US\$178.25, ISBN 0-444-89829-8.

Boeddeker, K.W., ed., **The Early History of Membrane Science** (special issue J. Membr. Sci., selected papers celebrating vol. 100), Elsevier, Amsterdam, The Netherlands.

Bogdanov, A.V., Dubrovskiy, G.V., Krutikov, M.P., Kulginov, D.V., and Strelchenya, V.M., **Interaction of Gases with Surfaces - Detailed Description of Elementary Processes and Kinetics** (Springer Lecture Notes in Physics - Monographs 25), Springer, DM54.00 / £23.50 / FF204.00, ISBN 3-540-58802-7.

Brey, J.J., Marro, J., Rubi, J.M., San Miguel, M., eds., **25 Years of Non-Equilibrium Statistical Mechanics** (Proceedings XIII Sitges Conference, Barcelona, Spain, June 1994), (Springer Lecture Notes in Physics 445), Springer, DM116.00/ £50.50/ FF437.00, ISBN 3-540-59158-3.

Demczyk, B.G., Garfunkel, E., Clemens, B.M., Williams, E.D., and Cuomo, J.J., eds., **Evolution of Thin Film and Surface Structure and Morphology** (Symposium held in Boston MA, U.S.A., November-December 1994) Materials Research Society, Pittsburgh PA, U.S.A.

Farrugia, L.J., ed., **The Synergy Between Dynamics and Reactivity at Clusters and Surfaces** (Proceedings NATO Advanced Research Workshop, Drymen, Scotland, July 1994; NATO ASI Series C, Mathematical and Physical Sciences, 465), Kluwer, Dordrecht, The Netherlands.

Fordham, R.J., Baxter, D.J., and Graziani, T., **Corrosion of Advanced Ceramics** (Proceedings of a Special session as part of the 4th European Ceramics Society Conference, Riccione, Italy, October 1995; Key Engineering Materials 113), Trans Tech Publications, SFr.120.00/± US\$86.00, ISBN 0-87849-696-3.

Fuchs, H., ed., **International Journal on the Science and Technology of Condensed Matter Films** (Papers presented at the Workshop on Development and Industrial Application of Scanning Probe Microscopes (SXM-1), Munster, Germany, October 1994), Elsevier, Lausanne, Switzerland.

Gebelein, Ch.G., and Carraher, Ch.E., eds., **Industrial Biotechnological Polymers**, Technomic, SFr.169.00, ISBN 1-56676-292-8.

Gewirth, A.A., and Siegenthaler, H., eds., **Nanoscale Probes of the Solid/Liquid Interface** (Proceedings NATO Advanced Studie Institute, Sophia Antipolis, France, July

1993; NATO ASI Series E, Applied Sciences, 288), Kluwer, Dordrecht, The Netherlands.

Griskey, R.G., **Polymer Process Engineering**, Chapman & Hall, £55.00, ISBN 0-412-98541.

Guo, R., ed., **Colloid and Interface Science in the People's Republic of China Part 1** (special issue J. Dispersion Sci. Technol., 1995, 16/5), Dekker, New York NY, U.S.A.

Havelka, K.O., and Filisko, F.E., eds., **Progress in Electro-rheology** (Proceedings ACS Symposium of Electro-rheological Materials and Fluids, Washington DC, U.S.A., August 1994), Plenum, US\$138.00 (U.S.A. and Canada US\$115.00), ISBN 0-306-45074-7.

Herb, C.A. and Prud'Homme, R.K., **Structure and Flow in Surfactant Solutions** (ACS Symposium Series 578), American Chemical Society, £79.00, ISBN 0-8412-3054-4.

Hoa, S.V., ed., **Computer-Aided Design of Polymer-Matrix Composite Structures** (Mechanical Engineering Series 99), Marcel Dekker, US\$145, ISBN 0-8247-9558-X.

Huang, C.P., and O'Melia, C.R., eds., **Aquatic Chemistry: Interfacial and Interspecies Processes** (ACS Advances in Chemistry Series 244), American Chemical Society, £109.00, ISBN 0-8412-2921-X.

Interrante, L.V., Casper, L.A., and Ellis, A.B., **Materials Chemistry: an Emerging Discipline** (ACS Advances in Chemistry Series 245), American Chemical Society, £69.00, ISBN 0-8412-2809-4.

Ito, H., Tagawa, S., and Ilorite, K., eds., **Polymeric Materials for Microelectronic Applications: Science and Technology** (ACS Symposium Series 579), American Chemical Society, £89.00, ISBN 0-8412-3055-2.

Jones, R.G., ed., **Silicon-Containing Polymers**, The Royal Society of Chemistry, ISBN 0-85404-745-X.

Karsa, D.R., and Davies, W.D., eds., **Waterborne Coatings and Additives**, The Royal Society of Chemistry, £49.50, ISBN 0-85404-740-9.

Kilar, F., ed., **Ninth International Symposium on Capillary Electrophoresis**, Budapest, Hungary, October 1994 (J. Chromatogr. A, 1995, 709/1), Elsevier, Amsterdam, The Netherlands.

Klein, J., ed., **Thin Films and Interfaces** (Isr. J. Chem., 1995, 35/1), Laser Pages Publ. Ltd., Jerusalem, Israel.

Levitskiy, S.P., and Shulman, Z.P., **Bubbles in Polymeric Liquids: Dynamics and Heat-Mass Transfer**, Technomic, SFr.162.00, ISBN 1-56676-247-2.

Lyklema, J., **Fundamentals of Interface and Colloid Science, Volume II: Solid-Liquid Interfaces**, Academic Press, £67.00, ISBN 0-12-460524-9.

Malkin, A.Y., **Rheology Fundamentals**, ChemTech Publishing, Toronto-Scarborough, Ontario, Canada, US\$199.00.

McKane, A., Droz, M., Vannimenus, J., and Wolf, D., eds., **Scale Invariance, Interfaces, and Non-Equilibrium Dynamics** (Proceedings NATO Advanced Study Institute, Cambridge, U.K., June 1994; NATO ASI Series B, Physics, 344), Plenum, US\$126.00 (U.S.A. and Canada US\$105.00), ISBN 0-306-45005-4.

McKay, R.B., ed., **Technological Applications of Dispersions**, Marcel Dekker, US\$195.00, ISBN 0-8247-9180-0.

Miller, E., **Introduction to Plastics and Composites** (Mechanical Engineering Series 101), Marcel Dekker, US\$150.00, ISBN 0-8247-9663-2.

Miller, R.J.D., McLendon, G.L., Nozik, A.J., Schmickler, W., and Willig, F., eds., **Surface Electron Transfer Processes**, VCH Publishers, New York NY, U.S.A., US\$79.95.

Mittal, K.L., ed., **Polymer Surface Modification: Relevance to Adhesion**, VSP, DM177.00, ISBN 90-6764-201-0.

Muddle, B.C., ed., **Interfaces II** (Proceedings 2nd International Conference on the Role of Interfaces in Advanced Materials Design, Processing and Performance, Ballarat, Australia, November 1993; Materials Science Forum Volumes 189-190), SFr.240.00/± US\$185.00, ISBN 0-87849-693-9.

Neilson, D., and Das, M.P., **Computational Approaches to Novel Condensed Matter Systems - Applications to Classical and Quantum Systems** (Proceedings 3rd Gordon Godfrey International Workshop, Sydney, Australia, July 1993), Plenum, US\$107.40 (U.S.A. and Canada US\$89.50), ISBN 0-306-44986-2.

Newas, G.M., Neber-Aeschbacher, H., and Wöhlbier, F.H., **Ceramic Matrix Composites** (Key Engineering Materials Volumes 108-110), Trans Tech Publications, SFr400.00/± US\$230.00, ISBN 0-87849-698-X.

Noble, R., and Stern, S.A., eds., **Membrane Separations Technology: Principles and Applications**, Elsevier, New York NY, U.S.A., US\$340.00.

Patrick, J.W., ed., **Porosity in Carbons: Characterization and Applications**, John Wiley, New York NY, U.S.A., US\$89.95.

Pawlowski, L., **The Science and Engineering of Thermal Spray Coatings**, Wiley, New York NY, U.S.A.

Peppas, N.A., and Langer, R.S., eds., **Biopolymers II**, (Advances in Polymer Science 122), Springer, DM238.00 / £103.50 / FF897.00 / ÖS1856.40 / SFr224.00, ISBN 3-540-58788-8.

Physical Properties of Polymers, (Advances in Polymer Science 120), Springer, DM228.00 / £99.00 / FF859.00 / ÖS1778.40 / SFr215.00, ISBN 3-540-58704-7.

Pogge, H.B., ed., **Electronic Materials Chemistry**, Marcel Dekker, US\$195.00 (five or more copies, for classroom use only, US\$65.00 each), ISBN 0-8247-9632-2.

Ponec, V., and Bond, G.C., **Catalysis by Metals and Alloys** (Studies in Surface Science and Catalysis 95), Elsevier, Dfl.475.00/US\$297.00, ISBN 0-444-89796-8.

Pugh, R.J., and Bergström, L., eds., **Surface and Colloid Chemistry in Advanced Ceramics Processing**, Marcel Dekker, US\$145.00, ISBN 0-8247-9098-7.

Rimai, D.S., DeMejo, L.P., and Mittal, K.L., eds., **Fundamentals of Adhesion and Interfaces**, VSP, DM124.00, ISBN 90-6764-197-9.

Scott, R.P.W., **Chromatography Techniques: Separation Methods for Industry and Academia** (Chromatographic Science Series 70), Dekker, New York NY, U.S.A.

Sheu, E.Y., and Mullins, O.C., eds., **Asphaltenes - Fundamentals and Applications** (based on an International symposium on the Characterization of Petroleum Colloids held at the 24th annual meeting of the Fine Particle Society, Chicago IL, U.S.A., August 1993), Plenum, US\$95.40 (U.S.A. and Canada US\$79.50), ISBN 0-306-45191-3.

Shpenkov, G.P., **Friction Surface Phenomena** (Tribology Series 29), Elsevier, Dfl.265.00/US\$155.75, ISBN 0-444-81684-4.

Simpson, W.G., ed., **Plastics and Resin Compositions**, The Royal Society of Chemistry, £79.50, ISBN 0-85404-501-5.

Sondergaard, K., and Lyngaae-Jorgensen, eds., **Rheophysics of Multiphase Polymer Systems**, Technomic, SFr. 276.00, ISBN 1-56676-156-5.

Stacke, H.W., ed., **Anionic Surfactants** (Surfactant Science Series 56), Marcel Dekker, US\$195, ISBN 0-8247-9394-3.

Stastna, J., and De Kee, D., **Transport Properties in Polymers**, Technomic, Sfr.162.00, ISBN 1-56676-282-0.

Stein, H.N., **The Preparation of Dispersions in Liquids** (Surfactant Science Series 58), Marcel Dekker, US\$125.00, ISBN 0-8247-9674-8.

Sutton, A.P., and Balluffi, R.A., **Interfaces in Crystalline Materials**, Oxford University Press, Oxford, U.K.

Terpstra, R.A., Pex, P.P.A.C., and de Vries, A.H., eds., **Ceramic Processing**, Chapman & Hall, £50.00, ISBN 0-412-59830-2.

Thermal and Electrical Conductivity of Polymer Materials, (Advances in Polymer Science 119), Springer, DM120.00 / £52.00 / FF452.00 / ÖS936.00 / SFr115.50, ISBN 3-540-58502-8.

Trasatti, S., and Wandelt, K., eds., **Surface Science in Electrochemistry** (Proceedings IUVSTA Workshop, San Benedetto Del Tronto, Italy, September 1994), Elsevier, Amsterdam, The Netherlands.

Vansant, E.F., Van der Voort, P. and Vrancken, K.C., eds., **Characterization and Chemical Modification of the Silica Surface**, Elsevier, Dfl.410.00/US\$241.25, ISBN 0-444-81928-2.

Wandelt, K., ed., **ECOSS-14** (Proceedings 14th European Conference on Surface Science, Leipzig, Germany, September 1994), Elsevier, Amsterdam, The Netherlands.

Wang, X.J., ed., **International Conference on Liquid Crystal Polymers**, Beijing, China, September 1994, Huethig & Wepf Zürich, Switzerland.

Weller, M.T., **Inorganic Materials Chemistry**, Oxford University Press, £4.99, ISBN 0-19-855798-1.

Wool, R.P., ed., **Polymer Interfaces: Structure and Strength**, Hanser/Gardner, Cincinnati OH, U.S.A., US\$118.00.

Yiacoumi, S., and Tien, C., **Kinetics of Metal Adsorption from Aqueous Solutions: Models, Algorithms, and Applications**, Kluwer, Dfl.210.00/£84.00, ISBN 0-7923-9600-6.

Yukushevich, L.A., **Methods of Theoretical Physics and Their Applications to Biopolymer Science**, Nova Science Publishers, Commack NY, U.S.A.

8.4 Books 1996

Allen, N.S., Edge, M., Bellobono, I.R., and Selli, E., **Current Trends in Polymer Photochemistry**, Prentice Hall, ISBN 0-13-138785-5.

Anpo, M., ed., **Surface Photochemistry**, Wiley, ± £45.00, ISBN 0471950319.

Blackley, D.C., **High Polymer Latices Vol. 2**, Chapman & Hall, ± £75.00, ISBN 0-412-62880-5.

Brostow, W., ed., **Mechanical and Thermophysical Properties of Polymer Liquid Crystals** (Polymer Liquid Crystals Series 3), Chapman & Hall, ± £79.00, ISBN 0-412-60900-2.

Brostow, W., and Collyer, A.A., **Electric, Magnetic and Optical Effects on Polymer Liquid Crystals and their**

Use in Optoelectronics (Polymer Liquid Crystals Series 4), Chapman & Hall, ± £59.00, ISBN 0-412-61310-7.

Feldman, D., and Barbalata, A., **Synthetic Polymers - Technology, Properties, Applications**, Chapman & Hall, ± £35.00, ISBN 0-412-71040-4.

Hussey, R.J., and Wilson, J., **Structural Adhesives Directory and Databook**, Chapman & Hall, ± £85.00, ISBN 0-412-71470-1.

Pinnavaia, T.J., and Thorpe, M.F., **Access in Nanoporous Materials**, Plenum, US\$150.00 (U.S.A. and Canada US\$125.00), ISBN 0-306-45218-9.

Prasad, P.N., Mark, J.E., and Fai, T.J., **Polymers and Other Advanced Materials - Emerging technologies and business opportunities** (Proceedings Third International Conference, Kuala Lumpur, Malaysia, January 1995), Plenum, US\$191.40 (U.S.A. and Canada US\$159.50), ISBN 0-306-45210-3.

Robb, I.D., ed., **Specialist Surfactants**, Chapman & Hall, ± £59.00, ISBN 0-7514-0340-7.

Stepto, R.F.T., ed., **Polymer Networks**, Chapman & Hall, ± £ 69.00, ISBN 0-7514-0264-8.

Tant, M.R., Mauritz, K.A., and Wilkes, G.L., eds., **Ionomers - Synthesis, structure, properties and applications**, Chapman & Hall, ± £65.00, ISBN 0-7514-0392-X.

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!

Prof.dr. Hans Lyklema, Newsletter Editor, Department of Physical and Colloid Chemistry, Wageningen Agricultural University, (Dreijenplein 6) P.O. Box 8038, NL-6700 EK Wageningen, The Netherlands, Phone +31 (Netherlands) - 317 (area code) - 482279 (extension); Fax +31 (317) 483777, E-mail fysko@fenk.wau.nl.

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(New telephone and fax numbers!)

Hans Lyklema