

batch ex:



*International Union of Pure and Applied Chemistry*  
COMMISSION ON COLLOID AND SURFACE CHEMISTRY

IUPAC 1.6

COLLOID AND INTERFACE SCIENCE  
INTERNATIONAL NEWSLETTER

No. 2 - July 1979.

*Compiled under the auspices of the IUPAC  
Commission on Colloid and Surface Chemistry*

COLLOID AND INTERFACE SCIENCE INTERNATIONAL NEWSLETTER  
No. 2 - July 1979

Compiled by J. Lyklema,  
Laboratory for Physical and Colloid Chemistry  
Agricultural University - De Dreijen 6  
6703 BC Wageningen, The Netherlands

Under the auspices of the IUPAC Commission for Surface and Colloid  
Science (Commission I.6)

The author of this Newsletter acts also as a coordinator for groups known to be active in the field of preparing and characterizing heterogeneous catalysts with specific properties. Hitherto four "Contact Letters" have been dispatched to 20 groups in 11 countries.

Under the auspices of I.6 an education book was published "*Hydrocolloid Chemistry: Enriching Topics from Colloid and Surface Science*" (H. van Olphen and K.J. Mycels, editors), 2nd printing (1977) available at \$ 7.50 soft cover and \$ 13.50 cloth, from Theorex, 8327 La Jolla Scenic Drive, La Jolla - Cal. 92037, USA.

In September 1979, at the occasion of the 30st IUPAC Assembly, Commission I.6 is to convene in Davos, Switzerland.

3. International Cooperation in the field of Colloid and Interface Science and the establishment of IACIS

It is hoped that at the occasion of the 3rd Int. Conference on Surface and Colloid Science (Stockholm, August 1979) the International Association of Colloid and Interface Scientists (IACIS) will be founded. More international cooperation and better information belong to the main purposes. IACIS seeks to achieve these goals by (i) organizing international conferences, in fact by continuing and coordinating the IUPAC-sponsored International Conferences on Surface and Colloid Science (NL1-4); (ii) continuing the present Newsletters (see below, item 9), and (iii) distributing a journal. IACIS wants to give its individual members a maximum of information for their subscriptions, bureaucracy will be reduced to a minimum.

Details have to be arranged at the Stockholm meeting and the relations with IUPAC will be discussed at Davos, Sept. 1979. A provisional council has been set up, consisting of Prof. G.D. Parfitt (UK), Prof. A. Weiss (GFR), Prof. J. Lyklema (NL), Prof. A. Sheludko (BG), Prof. E. Ter-Minasyan Saraga (Fr.), Prof. R. Wolfson (IL), Prof. B.V. Deyagin (SU), Prof. E. Matijevic (USA), Dr. V. Pravdić (Yu), Dr. P. Stenius (S), Prof. E. Suito (J) and Prof. T.W. Healy (Austr.).

A copy of provisional statutes and bylaws and an introductory letter will be handed to all participants at the Stockholm meeting; these items are also available on request from Prof. G.D. Parfitt, BTP Nioxide International Ltd., Central Laboratories, Billingham, Teesside - TS18 2NQ, UK.

4. International Conferences on Surface and Colloid Science (IUPAC-sponsored)

- 1st Conference, Budapest 1975
- 2nd Conference, Puerto Rico, 1976
- 3rd Conference, Stockholm, August 1979. Information NL1-4.
- 4th Conference, Jerusalem, July 5-10, 1981. Information available from Prof. A.S. Kertes, Institute of Chemistry, The Hebrew University, Jerusalem, Israel. A first circular will be dispatched within a few weeks.

5. Other Conferences in the field of Surface and Colloid Science

For events up to September 1, 1979, see NL1-5.1 to 5.16. Supplement:

- 5.1. *Second Gordon Conference on Macelvani and Macromolecular Catalysts*, Brewster Academy, Wolfeboro, New Hampshire, USA, August 6-10, 1979. Information: Dr. R.L. Reeves, Eastman-Kodak Research Laboratories B81, 1959 Lake Ave., Rochester - N.Y. 14650, USA.
- 5.2. *4th International Summer Institute in Surface Science* (Summer course), August 13-17, 1979, Univ. of Wisconsin, Milwaukee. Information Dr. R. Vanechow, Dept. of Chemistry, Univ. of Wisconsin, Milwaukee - Wis. 53201, USA.

Events from September 1979 onward:

- 5.3. American Chemical Society Div. of Colloid and Surface Chemistry, Sept. 9-14, 1979, Washington - D.C., USA. See NL1-5.17.
- 5.4. 26th International Symposium on Macromolecules, Sept. 17-21, 1979, Mainz, GFR. See NL1-5.18.
- 5.5. Organisation of Macromolecules in the Condensed Phase, Sept. 25-27, 1979, Cambridge; Faraday Discussion # 68 of the Chemical Society, in association with the Polymer Physics Group of the UK. Information: Mrs. Y.A. Fish, The Chemical Society, Burlington House, London - W1V OBN, UK.
- 5.6. Surface Active Agents, Their Modes of Action and Applications, Sept. 26-28, 1979, University of Nottingham, UK. Soc. of Chemical Industry, Colloid & Surface Chem. Group in collaboration with the Colloid & Interface Science Group of the Faraday Division of the Chemical Society. Closing data applications: August 26th. Symposium Secretary Dr. B.T. Ingram; information from the Soc.of Chem.Industry (SAA), Conference Secretariat, 14 Belgrave Square, London - SW1X 8PS, UK.
- 5.7. Conference on Electrical Insulation and Dielectric Phenomena, Oct. 21-25, 1979, Pocono HERSHEY, Pennsylvania, USA: organized by the Committee on Dielectrics NRC, Assembly of Engineering. There is a session planned on dielectric properties of biological systems and one on the physics and chemistry of dielectric surfaces. Chairman of the programme committee: Dr. E. Sacher, IBM Corp. E 236 M11, P.O.Box 6, Endicott - N.Y. 13760, USA.
- 5.8. International Liquid Chromatography Symposium IV, Oct. 24-25, 1979, Strasbourg. Emphasis on polymer analysis. Scientific information: Dr. X. Delamare, 18 Rue Goubet, F-5019 Paris, Fr.
- 5.9. American Chemical Society, Div. of Polymer Chemistry, March 23-28, 1980, Houston - Texas, USA  
Titles of papers: 4 copies of 200-word abstract (original on ACS Abstract Form) and 2 copies of paper or long abstract, 1000-word minimum with experimental results (1 copy on special paper) by Nov.-1979, for general papers. Authors should contact the designated chairman for due date of symposium papers, special paper, abstract forms and other information.
- General Papers: R.M. Ikeda.  
*Advances in Polymeric Controlled-Release Formulations*: F. Harris, Dept.of Chemistry, Wright State Univ., Dayton - Ohio 45335, USA.
- Atomic Polymerization: J. McGrath, Chemistry Dept., Virginia Polytechnic Inst. and State Univ., Blacksburg - Va.24061, USA.
- Interfacial Polymerizations (joint with Div.of Organic Coatings & Plastics Chemistry).  
*Polymer for Unusual Service Conditions*: P. Cassidy, Chemistry Dept., Southwest Texas State Univ., San Marcos - Texas 78666, USA.
- Characterization of Molecular Structure of Polymers by Photon, Electron, and Ion Probes (cooperator: Div. of Organic Coatings & Plastics Chemistry): H.R. Thomas, Xerox Corp., Webster Research Center, 800 Phillips Rd. W114, Webster - N.Y.14580, and D. Dwight, Dept.of Materials Engineering, Virginia Polytechnic Inst. and State Univ., Blacksburg - Va.24061, USA.
- History of Polymer Science (joint: see Div. of The History of Chemistry for details).
- Witco Award.
- 5.10. American Chemical Society, Div. of Colloid and Surface Chemistry, March 23-28, Houston - Texas, USA.  
Titles of papers: by Oct.7, 1979. 4 copies of 200-word abstract (original on ACS Abstract Form) by Nov.7, 1979.
- General Papers: J.A. Mann, address see 5.19 below.  
*Molecular Processes at Solid Surfaces; Chemistry of Metal Clusters*: J.R. Katzer, Dept.of Chemical Engineering, Univ.of Delaware, Newark - Del.19711, USA.
- Colloid and Interfacial Problems in Coal Utilization*: B.C. Gerstein, Ames Laboratory, Iowa State Univ., Ames - Iowa 50011, USA.
- Adsorption from Aqueous Solution*: P.H. Tewari, Atomic Energy Commission of Canada, Pinawa, Man., Canada ROE 1L0.
- General Papers in Catalysis and Related Topics*: R. Garten, Catalytica Associates Inc., 3255 Scott Blvd., Suite 7-E, Santa Clara - Cal.95051; G. Haller, Dept.of Engineering & Applied Science, Yale Univ., New Haven - Conn.06520, USA.
- 5.11. *Kinetic Processes in Colloidal Dispersions*, 1-2 April, 1980, Univ. of Loughborough, UK. Colloid & Interface Group, Faraday Div. of the Chemical Society; information: Dr. W.D. Cooper, Hon.Secretary, Dept.of Chemistry, Univ. of Edinburgh, Edinburgh - EH9 3JU, UK (this announcement replaces NL1-5.21).
- 5.12. *Surface Coatings and Surface Treatment*, 9-11 April, 1980, Durham Univ. UK; Annual Congress Industrial Div. Chemical Society of Britain.
- 5.13. 5th International Conference on Zeolites, 2-6 June, 1980, Naples (It.). See NL1-5.22.
- 5.14. 7th European Chemistry at Interfaces Conference, June 3-6, 1980, Abo, Finland. Subject: Physico-chemical properties of surfactant systems (micelle formation, liquid crystals, inverted micelles, microemulsions). Information: Prof. I. Danielsson, Rob Akademii, Porthansg. 3-5, Abo-50-, SF-20500, Finland.
- 5.15. 54th Colloid and Surface Science Symposium, June, 1980, Lehigh Univ., Bethlehem - Pennsylvania 18015, USA. At this symposium A.C. Zettlemoyer will be honored on the occasion of his 65th anniversary. Local chairman: H. Leidheiser Jr., at Lehigh University.
- 5.16. 7th International Congress on Catalysis, June 30 - July 4, 1980, Tokyo. See NL1-5.23. This congress has been granted IUPAC sponsorship.
- 5.17. *Structure and Dynamics in Dispersions of Interacting Colloidal Particles*, 10-11 July, 1980, Univ. of Leeds, UK. Colloid & Interface Group, Statistical Mechanics Group and Thermodynamics Group of the Faraday Div. of the Chemical Society. Information: Dr. W.D. Cooper, Hon.Secretary, Dept. of Chemistry, Univ. of Edinburgh, Edinburgh - EH9 3JU, UK.
- 5.18. 7th International Conference on Non-Aqueous Solutions, August 11-15, 1980, Univ. of Regensburg, GFR. Information: Prof. J. Barthel, Dept. of Chemistry, Univ. of Regensburg, 8400 Regensburg, GFR.
- 5.19. *American Chemical Society, Div. of Colloid and Surface Chemistry*, August 24-29, 1980, San Francisco, USA.  
General Papers: J.A. Mann, Dept. of Chemical Engineering, Case Western Reserve Univ., Cleveland - Ohio 44106, USA.
- Symposium on Light Scattering*: M. Kerker and J.P. Kratochvil, Dept. of Chemistry, Clarkson College, Potsdam - N.Y.13676, USA.
- General Papers in Catalysis and Related Topics*: R. Garten, Catalytica Associates Inc., 3255 Scott Blvd., Suite 7-E, Santa Clara, Cal.95051; G. Haller, Dept.of Engineering & Applied Science, Yale Univ., New Haven - Conn.06520, USA.
- Molecular Processes at Solid Surfaces*: Topic to be announced; R.R. Rye, Div.5114, Sandia Laboratories, Albuquerque - N.M.87115; J.T. Yates Jr., National Bureau of Standards, Washington - D.C.20234, USA.
- Nucleation: J.L. Katz, Clarkson College, Potsdam - N.Y.13676, USA.

5.20. *The Adhesion of Microorganisms to Cell Surfaces*, Sept. 3-5, 1980, Univ. of Reading, UK. Organized by Society of Chemical Industry and Society for General Microbiology of Britain. Information from Dr. B. Vincent, School of Chemistry, Univ. of Bristol, Cantock's Close, Bristol - BSB ITS, UK.

5.21. *IUPAC International Symposium on Macromolecules*, Sept. 7-12, 1980, Florence, It., Part 1: Constitutional and Configurational Order in Synthetic Polymers and Biopolymers; Part 2: Polymers Tailored to Specific Purposes. Information "Macro-IUPAC '80", Fondazione Giovanni Lorenzini, Via Monte Napoleone 23, 20121 Milano, Italia, or from Prof. F. Ciardelli, Istituto Chimica Organica Industriale, Via Risorgimento 35, I-56100 Pisa, Italia.

5.22. *Non-Aqueous Colloid Dispersions*, Sept. 16-18, 1980. Edinburgh, UK. See NI 1-5.24. This meeting is organized by the Colloid and Interface Science Group, Faraday Div., Chemical Society of Britain.

5.23. *International Symposium on Agglomeration*, with technical exhibitions, May 6-9, 1981, Nürnberg, GFR. Organized by Verband Deutscher Ingenieure (Gesellschaft Verfahrenstechnik und Chemie-Ingenieurwesen (GVC), Düsseldorf. Information: Dr.-Ing. W. Herrmann, BASF Aktiengesellschaft, D-6700 Ludwigshafen/Rh., GFR.

5.24. *Selectivity in Heterogeneous Catalysis*, Sept., 1981, Univ. of Nottingham, UK. Faraday Discussion No. 72 of the Chemical Society. Information: Mrs. Y.A. Fish, The Chemical Society, Burlington House, London - W1V OBN, UK.

5.25. *8th European Chemistry at Interfaces Conference*. Provisionally, this meeting is planned for 1982 in Budapest, Hungary.

#### 6. Information on National Groups in Surface and Colloid Science

In addition to the information collected in NI 1-6, the following may be reported:

*Japan.* The Division of Colloid and Surface Chemistry of the Chemical Society of Japan has appointed Prof. K. Inouye (Dept. of Chemistry, Faculty of Science, Chiba Univ., Chiba, Japan) and Prof. A. Watanabe (Dept. of Chemistry, Nara Women's Univ., Nara - 630, Japan) as their representatives for international relations

*United Kingdom.* Composition 1978-'79 of the Colloid and Surface Chemistry Group of the Chemical Society: Prof. R.H. Ottewill (chairman), Dr. W.D. Cooper (hon.sec'r.), Dept. of Chemistry, Univ. of Edinburgh, Edinburgh - EH9 3JU, UK, Dr. J.W. Goodwin (hon.treasurer), Prof. D.H. Everett, Dr. M.J. Jaycock, Dr. A. Lips, Dr. R. Aveyard, Dr. A.L. Smith.

Composition 1978-'79 of the Colloid and Surface Chemistry Group of the Society of Chemical Industry: Dr. A.L. Smith (chairman), Prof. A.I. Bailey (vice-chairman), Dr. R.J.R. Cairns (treasurer), Dr. J. Gregory (secr., Dept. of Civil and Municipal Engineering, Univ. College, Gower Street, London - WC1 EBT, UK), Dr. R.J. Akers (programme secr.), Dr. S. Ash, Dr. P. Connor, Dr. D. Dolmire, Prof. N.B. Graham, Dr. J.M. Haynes, Dr. J.A. Hill, Dr. B.T. Ingram, S.A. Mitchell, Dr. E. Ness, Prof. K.S.W. Singi, Dr. B. Vincent, F. Waite.

*Canada.* Dr. M. Hair (Xerox Research Centre of Canada Ltd., 2480 Dunwin Drive, Mississauga, Ont., Canada L5L 1J9) offered to act as a contact person for Canada.

*Brazil.* In addition to what has been said in NI 1-6, Dr. F. Galenbeck (Universidade de São Paulo, Instituto de Química, Cidade Universitária, Caixa Postal 20.780, São Paulo, Brazil) offered his services as a contact person for Brazil.

#### 7. Information on Journals

Marcel Dekker Publishers intend to start a new journal in our field, the *Journal of Dispersion Science and Technology - Emulsions, Microemulsions, Dispersions*. Editors are Dr. S. Friberg and Dr. P. Becher.

The Journal of Applied Surface and Colloid Science, mentioned in NI 1-7.1, is due to appear late 1979 - early 1980 under the title *Colloids and Surfaces. An International Journal devoted to the Applications and Principles of Colloid and Interface Science*, published by Elsevier. Editor-in-chief: Prof. P. Somasundaran, Henry Krumb School of Mines, 918 S.W. Mudd Bldg., Columbia Univ., 520 W. 120th Street, New York - N.Y. 10027. Regional Editor Europe, Middle-East, Africa: Prof. G.D. Parfitt, BTP Ti-Oxide Int. Ltd., Central Laboratories, Billingham, Teesside - TS18 2NQ, UK. Regional Editor Far East, India, Australia: Prof. T.W. Healy, Dept. of Physical Chemistry, Univ. of Melbourne, Parkville - Vic. 3052, Australia. For America, colloid papers to Prof. Somasundaran, Interface papers to Dr. E.D. Goddard, Union Carbide Corp., Research & Development Dept., Old Saw Mill River Road, Tarrytown - N.Y. 10591, USA.

#### 8. Mailing and Distribution of this Newsletter

Ca. 200 copies of this second Newsletter are airmailed to 28 countries all over the world. Some addressees receive the Newsletter personally, others on behalf of their functions in committees known to be active in the field of Surface and Colloid Science. Although a fair coverage is achieved, the author feels that some countries are still underrepresented. Examples: Spain, Eastern Europe, Middle East (except Israel), Central and South Asia, Africa and Central America. Suggestions are solicited for potential addresses in these countries or groups of countries. People who are interested in (parts of) the Mailing List, for instance because they want to dispatch some information directly, can request copies from the author, provided it is not used for commercial purposes.

The viability of this type of Newsletter depends crucially on the continued cooperation and support of many workers in the field. In fact, many scientists from all over the world (several of them in more remote areas) have contributed to this Newsletter and/or shown their interest. Everybody who has anything to communicate of more than local interest is invited to inform the author of this Newsletter about it, giving as complete details as possible. In particular, if (international) meetings are announced a contact address is needed. Depending on the amount of information that will be received, it is intended to compose a third International Newsletter within roughly half a year from now. It is regretted that no long pieces showing the opinion of authors can be published, but constructive suggestions for improvement will be seriously considered.

#### 9. On IACIS and Future Newsletters

It is envisaged that IACIS will take over the distribution of these Newsletters as one of the services to its members. Details have to be worked out between the various parties involved, but it is foreseen that all present recipients will receive at least some information on the future status, before the change - if any - becomes effective. In the mean time, correspondence remains to be sent to the author of the present Newsletter.

#### 10. Account

The information contained in this letter is taken from formal announcements and from contributions given to the author by several workers in the field. These contributions are gratefully acknowledged. Although the author has composed this letter to the best of his knowledge, he nor the IUPAC can accept any responsibility for problems that might arise due to inadvertent errors. It is also impossible for him to answer specific questions about the scientific meetings mentioned in this Newsletter.

This letter and the ensuing correspondence have been paid out of local funds. In the first letter I asked for moral and financial support for continuing this effort. As a result, I received with thanks many enthusiastic letters from all over the world, but hitherto only one cheque. I remain looking forward to more of both.

*J. Lyklema*  
Prof. Dr. J. Lyklema  
Laboratory for Physical and Colloid Chem.  
Agricultural University  
De Dreijen 6  
6703 BC WAGENINGEN - Ther Netherlands.