Cumulative Author Index 1990

The following papers were accepted for publication between 20th and 31st August 1990:

Molecular mechanisms of dielectric relaxation of highly polar liquids **V. I. Gaiduk, T. A. Novskova** and **V. V. Brekhovskikh**

Fourier-transform infrared study of the oxidative thermolysis of tetramethyltin in the temperature range 533–613 K **P. G. Harrison, E. N. Clark, A. Ashworth** and **J. McManus**

Surface fractal dimension of microporous carbon fibres by nitrogen adsorption **K. Kaneko, M. Sato, T. Suzuki, Y. Fujiwara, K. Nishikawa** and **M. Jaroniec**

Triplet–triplet and singlet–singlet energy-transfer studies between t-stilbene and 7-amino coumarin laser dyes **J. P. Mittal, K. I. Priyadarsini, D. B. Naik** and **P. N. Moorthy**

Ex-hydroxide magnesium oxide as a model adsorbent for investigation of micropore-filling mechanisms **M. Ribeiro Carrott, P. J. M. Carrott, M. Brotas De Carvelho** and **K. S. W. Sing**

Kinetics of the reactions of CH_3O and CD_3O with NO **M.F. Golde, J. A. McCaulley, A. M. Moyle, S. M. Anderson** and **F. Kaufman**

External surface adsorption of uranyl–hydroxo complexes on zeolite particles in relation to the double-layer potential **R. F. C. Vochten, L. Van Haverbeke** and **F. Goovaerts**

The calculated energetics of torsional motion in aromatic polymers **J. Kendrick**

Properties of Rh-exchanged SiO_2–Al_2O_3 sol–gel catalysts **P. A. Sermon, T. J. Walton, M. A. Martin Luengo** and **M. S. W. Vong**

The photolysis of HOCl at 248 nm in a supersonic molecular beam: laser-induced fluorescence spectra of OH **J. G. Frey, A. J. Bell, P. R. Pardon** and **C. G. Hickman**

Kinetics of the reaction of silicon with molecular bromine **E. A. Ogryzlo** and **Z. H. Walker**

Electrochemical and electrical properties of poly(hexachlorobuta-1,3-diene), an electrochemically graphitized film **H. Nishihara, H. Harada, S. Kaneko, M. Tateishi, K. Aramaki** and **R. W. Murray**

Adsorption of CO at a copper electrode intermediately formed in electrochemical reduction of CO_2 **Y. Hori, A. Murata** and **Y. Yoshinami**

EPR and proton ENDOR studies in single crystals of potassium hydrogen thiodiacetate **K. V. Lingam, M. R. Kumar** and **G. T. K. Rao**

Influence of viscosity on the thermal vibrations of a lamellar liquid crystal **J. C. Eriksson** and **S. Ljunggren**

A study of the NH_2O and HNO molecules with vacuum ultraviolet photoelectron spectroscopy **J. M. Dyke, J. Baker, V. Butcher** and **A. Morris**

Interactions of surfactant monolayers across hydrocarbon liquids **M. L. Gee** and **J. N. Israelachvili**

The HBO osculating complex in the $B(^2P) + OH(^2\Pi)$ reaction **A. Aguilar, A. Solé** and **M. Albertí**

Monte Carlo calculation of energy and electron transfer in a monolayer of spheroids **P. Siders**

Vibration–vibration energy transfer from $H_2(v=1)$ and $D_2(v=1)$ to selected diatomic and polyatomic hydrides and deuterides **I. W. M. Smith** and **J. F. Warr**

Oxidation of iodide by persulphate in AOT–oil–water microemulsions **F. Sánchez, E. Muños, C. Gómez-Herrera, M. del Mar Graciani** and **M. L. Moyá**

FARADAY DIVISION INFORMAL AND GROUP MEETINGS

Polymer Physics Group
Deformation of Networks
To be held at the Society of Chemical Industry, London on 12 December 1990
Further information from Dr M. J. Richardson, National Physical Laboratory, Teddington, Middlesex TW11 0LW

Colloid and Interface Science Group
Functional and Polymeric Surfactants
To be held at King's College, London on 13–14 December 1990
Further information from Professor B. H. Robinson, Department of Chemistry, University of East Anglia, Norwich NR4 7TJ

High-Resolution Spectroscopy Group
Wide Amplitude Motion: Experiment and Theory (provisional)
To be held at University College, London on 17–18 December 1990
Further information from Dr J. Tennyson, Department of Physics and Astronomy, University College London, Gower Street, London WC1E 6BT

Carbon Group with the Institute of Physics Engineering Division
Carbon in Extreme Environments
To be held at the University of Warwick on 20 December 1990
Further information from The Meetings Officer, The Institute of Physics, 47 Belgrave Square, London SW1X 8QX

Molecular Beams and Dynamics Group with CCP6
Chemical Dynamics in the Time Domain
To be held at the University of Oxford on 21-22 December 1990
Further information from Dr J. M. Hutson, Department of Chemistry, University of Durham, Durham DH1 3LE

150th Anniversary Congress
Division with Analytical Division: Electrochemical Sensors
Division with Dalton Division: New Electronic Materials: Synthesis, Structure and Spectroscopy
To be held at Imperial College, London on 9–12 April 1991
Further information from Mrs Y. A. Fish, The Royal Society of Chemistry, Burlington House, London W1V 0BN

Polymer Physics Group
Polymer Physics—a conference to mark the retirement of Professor A. Keller FRS
To be held at the University of Bristol on 3–5 April 1991
Further information from Dr M. J. Richardson, National Physical Laboratory, Teddington TW11 0LW

Statistical Mechanics and Thermodynamics Group with the British Liquid Crystal Society
Understanding Self-Assembly and Liquid Crystals
To be held at the University of Leeds on 3–5 July 1991
Further information from Dr N. Boden, Department of Chemistry, University of Leeds, Leeds LS2 9JT

Electrochemistry Group
Biennial Group Informal Meeting
To be held at the University of Salford on 16–18 September 1991
Further information from Dr S. P. Tyfield, C.E.G.B., Berkeley Nuclear Laboratories, Berkeley, Gloucestershire GL1 9PB

Division
Autumn Meeting: Spectroscopy in Environmental Science
To be held at the University of York on 24–26 September 1991
Further information from Professor R. E. Hester, Department of Chemistry, University of York, York YO1 5DD

Division
Annual Congress: Characterisation of Solids and Surfaces
To be held at UMIST, Manchester on 13–16 April 1992
Further information from Dr J. F. Gibson, The Royal Society of Chemistry, Burlington House, London W1V 0BN

THE FARADAY DIVISION OF THE ROYAL SOCIETY OF CHEMISTRY
IN ASSOCIATION WITH THE HIGH RESOLUTION SPECTROSCOPY AND MOLECULAR BEAMS GROUPS OF THE FARADAY DIVISION
GENERAL DISCUSSION No. 91

Structure and Dynamics of Reactive Transition States

University of Nottingham, 25-27 March 1991

Organising Committee

Professor J. P. Simons (Chairman)
Dr M. N. R. Ashfold
Dr D. C. Clary
Professor R. N. Dixon
Professor R. Grice
Professor A. Kleyn
Professor I. M. Mills
Professor N. V. Richardson

In the last few years the spectroscopy, reaction dynamics and theoretical communities have combined to mount by far the most serious assault yet seen on the commanding heights of the "transition state" in reactive collisions (and half-collisions). A parallel assault for reactive collisions (and half-collisions) at surfaces is gathering in the foothills. The "spectroscopy of collisions" is likely to grow very rapidly indeed with the advent of femtosecond techniques, resonance Raman probing and multiple photon ionisation resonantly enhanced via dissociation continuum states.

The Discussion will bring together spectroscopists, dynamicists (both gas phase and surface) and theoreticians, assessing the scene and setting the agenda for some years to follow.

Experimental and theoretical Discussion papers are sought, particularly concerned with (a) probing Transition State Dynamics, and (b) Oriented Systems and Surface Reaction Dynamics.

Further information may be obtained from:
Professor J. P. Simons, Department of Chemistry, University of Nottingham, University Park, Nottingham NG7 2RD.

THE FARADAY DIVISION OF THE ROYAL SOCIETY OF CHEMISTRY
GENERAL DISCUSSION No. 92

The Chemistry and Physics of Small Metallic Particles

The Royal Institution of Great Britain, London,18–20 September 1991

Organising Committee

Professor J. M. Thomas (Chairman)
Professor A. J. Leadbetter
Dr P. P. Edwards
Professor F. S. Stone
Professor C. R. A. Catlow

There is a growing interest, ranging from the theoretical to the preparative, in dispersed and supported particles of minute dimensions consisting of less than ten and up to several million atoms. These so called sub-colloidal species possess a wealth of electronic, magnetic, chemical and electrochemical properties. They also constitute formidable challenges in regard to evolving reliable methods for their characterization and the determination of their internal and surface structures.

The Discussion will bring together experimentalists and theoreticians from a wide range of disciplines, the aim being to identify the key attributes of present-day knowledge and desirable future trends in a field which was begun, at the colloidal level, largely by Faraday. Only those particles exhibiting metallic behaviour, interpreted broadly, will be discussed. (Large, gas-phase clusters were the subject of a Faraday Symposium held in December 1989.)

The meeting will be held in the theatre where Faraday lectured on more than a thousand occasions in the building in Albemarle Street where he lived and worked for fifty years. This Discussion coincides with the bicentenary of Faraday's birth and will end with the service commemorating his life and work in Westminster Abbey on Friday, 20 September.

Contributions for consideration by the Organising Committee are invited. Abstracts of about 300 words should be submitted by 31 August 1990 to: **Professor J. M. Thomas, The Royal Institution of Great Britain, 21 Albemarle Street, London W1X 4BS.**
Full papers for publication in the discussion volume will be required by May 1991.

THE FARADAY DIVISION OF THE ROYAL SOCIETY OF CHEMISTRY
SYMPOSIUM No. 26

Molecular Transport in Confined Regions and Membranes

Oxford, 17-18 December 1990

Experimental, theoretical and simulation studies which address fundamental aspects of molecular transport will be discussed in the following main areas:

a) Transport of atoms and molecules in pores, zeolite networks and other cavities; time-dependent statistical mechanics of small systems in confined geometries

b) Molecular transport through synthetic membranes, biological membranes, smectic liquid crystalline phases and Langmuir Blodgett films; the dynamics of the molecules forming the membrane

c) Diffusion, reorientation, conformational dynamics, viscosity and conductivity of polymer melts, to include papers dealing with bulk systems since the segments of the polymer will move in the anisotropic environment of the complete chain

d) Applications of Brownian dynamics to the study of diffusion in porous media and across membranes including the transport of flexible aggregates such as microemulsions

e) The growth of crystals, colloidal aggregates and droplets on irregular surfaces and in pores

The preliminary programme may be obtained from:
Mrs Y. A. Fish, The Royal Society of Chemistry, Burlington House, London W1V 0BN.

THE ROYAL SOCIETY OF CHEMISTRY, FARADAY DIVISION, SYMPOSIUM 27

The Conformations of Flexible Molecules in Fluid Phases

University of Southampton 16-18 December 1991

Organising Committee
Professor G. R. Luckhurst (Chairman)
Dr J. H. R. Clarke
Dr J. W. Emsley
Dr D. J. Osguthorpe
Dr J. Yarwood

Many molecules are able to exist in a range of different conformations in the fluid phase with distributions which reflect and may even determine the nature of the phase. The experimental and theoretical study of the geometry of the conformations and their distribution is a challenging task. An interdisciplinary approach involving different experimental techniques and strong interaction with theory is clearly required to stimulate advances in this field. The Symposium aims to assist in these advances by bringing together those concerned with the many aspects, both static and dynamic, of molecular flexibility in fluid phases.

Contributions for consideration by the Organising Committee are welcomed. Titles and abstracts, of about 300 words, should be submitted by **31 January 1991** to: **Professor G. R. Luckhurst, Department of Chemistry, The University, Southampton, SO9 5NH England.** Full papers for publication in the Symposium issue of Faraday Transactions will be required by **20th August 1991**.

Call for Papers

Division of Colloid and Surface Chemistry of the American Chemical Society

Symposium Announcement

Electrochemistry in Microheterogeneous Fluids

25-30 August 1991
202nd ACS National Meeting, New York, NY

Experimental and theoretical studies which address fundamental and applied aspects of electrochemistry in microheterogeneous fluids will be discussed. The range of microheterogeneous fluids to be examined includes micellar solutions, microemulsions, emulsions, latexes, and dispersions of solids in liquids. Examples of suitable topics include, but are not limited to, the following: electrosynthesis, electrocatalysis, electroactive solute distribution and transport, interphase transport kinetics, redox and electron transfer phenomena in colloidal semiconductors, metal colloid formation, particle sizing, particle diffusion, and micelle assisted electroanalytical methods.

Titles and abstracts (200-300 words) on standard ACS abstract forms should be submitted by 31 March 1991 to either of the symposium organizers. It is anticipated that the proceedings will be published. Full papers for refereed review will be required by 31 July 1991.

Further information may be obtained from the organizers:

Dr. Ray Mackay
Detector Technical Division
Chemical Research and Development Center
Aberdeen Proving Ground, MD 21010-5423
Telephone: (301) 671-5532
FAX: (301) 671-3160

Dr. John Texter
Photographic Research Laboratories
Eastman Kodak Company
Rochester, NY 14650-2109
Telephone: (716) 477-3019
FAX: (716) 722-2327

NOMENCLATURE AND SYMBOLISM

For many years the Society has actively encouraged the use of standard IUPAC nomenclature and symbolism in its publications as an aid to the accurate and unambiguous communication of chemical information between authors and readers.

Nomenclature. The following publications provide the IUPAC nomenclature rules and guidance on their use:
Nomenclature of Organic Chemistry, Sections A, B, C, D, E, F, and H (Pergamon, Oxford, 1979 edn.)
Nomenclature of Inorganic Chemistry (Blackwell Scientific Publications, Oxford, 1990).
Biochemical Nomenclature and Related Documents (The Biochemical Society, London, 1978).

Where there are no IUPAC rules for the naming of particular compounds or authors find difficulty in applying the existing rules, they should seek the advice of the Society's editorial staff.

Units and Symbols. A detailed treatment of units and symbols with specific application to chemistry, based on the Système Internationale d'Unités (SI), is given in *Quantities, Units and Symbols in Physical Chemistry*, published for IUPAC by Blackwell Scientific Publications, Oxford (1988 edn.).

A comprehensive list of IUPAC publications on nomenclature and symbolism appears in the January issue of *J. Chem. Soc., Faraday Transactions.*