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THE
BRITISH SOCIETY
OF RHEOLOGY

BULLETIN — No. 1, 1966

Hon. Secretary :

MR. R. J. COLE,
Paint Research Station,
Waldegrave Road,
Teddington, Middlesex.

Hon. Editor (Bulletin) :

DR. D. W. HADLEY,
J. J. Thomson Physical Laboratory.
Whiteknights Park,
Reading, Berks.

A CHARITABLE FUTURE FOR THE SOCIETY?

An appreciable part of the Society's income is now derived from royalties on Rheology Abstracts. So that this income will not be liable for taxation the Society is taking steps to become registered as a charity—in a similar manner to many other learned bodies.

Registration as a charity will entail several amendments to the Society's Constitution, and a revised Constitution will therefore be submitted for approval to the Annual General Meeting to be held in September. There are two major changes. First, the Society's accounts would be audited by professional accountants. The second change would affect a possible dissolution of the Society. In this event any assets must be applied for charitable purposes approved by the Secretary of State for Education and Science.

A further proposed amendment to the Constitution would take account of the Research Committee, which was established after the existing Constitution came into operation.

Recent Developments

Following correspondence with the publishers, the Committee has agreed that the Society shall become a Participating Society in *Rheologica Acta*. The German rheology organisations already have this status, and the journal has on several occasions published the proceedings of B.S.R. conferences.

The participation will involve no expense on the part of the Society, and there will be no obligation, for either the Society, or any of its members, to submit papers or proceedings for publication in *Rheologica Acta*. Members will benefit by being able to obtain any publication of *Rheologica Acta* at a discount of 20 per cent.

The Society is to make a presentation to Professor Markus Reiner on the occasion of his eightieth birthday. Will any members who may wish to attend a presentation dinner, which will take place in the London area during the first week in August, please communicate with the Hon. Secretary as quickly as possible if they have not already done so.

BRITISH SOCIETY OF RHEOLOGY, NEW SOUTH WALES BRANCH

Three general meetings and lectures were held, as follows, during 1965:

3rd March: Dr. B. E. Hobbs, "Flow and deformation of rocks."

5th May: Mr. L. Daniel, "Rheology of connective tissues."

22nd July: Mr. I. Doig, "The flow of continuous and disperse phases around a sphere in a cylindrical duct."

An exhibition and symposium on "Instrumentation and Measurements" was held at Sydney on 1st and 2nd June (see Bulletin No. 3, 1965).

The branch was represented at the ANZAAS Congress in Hobart. Discussions with the Victorian branch took place later on the question of there being a separate Section on Rheology in the ANZAAS framework.

Further information can be obtained from the Hon. Secretary of the Branch, Dr. L. Dintenfass, Dept. of Medicine, University of Sydney.

FUTURE B.S.R. MEETINGS

The Annual Conference 1966 will have as its subjects "Deformation and Flow in High Polymer Systems"; it will be held at Loughborough College of Technology from 14th-16th September.

A number of offers of papers for this Conference have already been received, but the Conference Secretaries would be pleased to consider additional papers.

Dr. L. R. G. Treloar will read an introductory paper on Flow Processes and Behaviour of Polymer Melts and Solutions, and Dr. I. M. Ward will introduce the session on Deformation Mechanics and Behaviour of Solid High Polymers.

Offers of papers on flow behaviour should be sent to Mr. R. W. Whorlow, Dept. of Physics, Battersea College of Technology, London, S.W.11, and offers relating to solid polymers to Dr. R. E. Wetton, Dept. of Chemistry, Loughborough College of Technology, Loughborough, Leicestershire.

The Society of Chemical Industry, Food Group, and the British Society of Rheology will hold a two day symposium on "Rheology and Texture of Foodstuffs; (a) Measurement (b) Texture Modification" on the 5th-6th January, 1967, at the School of Pharmacy, London University. Papers have been promised by Prof. Mohsenin (U.S.A.), Prof. de Man (Canada), Dr. Drake (Sweden), Dr. Bloksma, Dr. van den Tempel (Holland), Dr. Cullen, Dr. Harper, Mr. N. R. Jones, Mr. King, Dr. Lawrie, Dr. Love, Dr. Muller, Mr. Prentice, Dr. Wade and Prof. A. G. Ward (Great Britain). Anyone interested in attending this symposium, or in presenting a paper, should write to P. Sherman, Unilever Research Laboratory, Welwyn, Hertfordshire.

It is hoped that a joint evening meeting with the Oil and Fats Group of the Society of Chemical Industry will be held in London during November. Details will be announced later.

It is some years since the Society organised a Conference on the Rheology of Building and Road Materials, and it is hoped to hold one in the spring of 1967, in Sheffield.

The intention is to deal with materials such as fresh concrete, mortars, bitumen, asphalt and mastics, whose rheological properties are important on the site.

Some papers have already been offered but anyone wishing to submit a paper is invited to communicate as soon as possible with

Dr. G. H. Tattersall,

Department of Building Science (Materials Laboratories),

University of Sheffield,

Shearwood Road,

Sheffield 10. Tel. Sheffield 78555.

Abstracts of papers for refereeing will be required by September 1966.

Those who do not wish to submit papers but are interested in a Conference on this topic are invited to indicate their support.

Bibliographical Record—Addendum

Dr. D. C-H. Cheng points out an addition to the Record of Scientific Proceedings, published in Bulletin No. 2, 1965.

An article by Professor Lliboutry in "New Scientist," 9th December, 1965, page 734, refers to a Joint Meeting, held in Cambridge in 1948, of the British Rheologists' Club, British Glaciological Society, the Institute of Metals, and the Iron and Steel Institute. The subject of the meeting was not clear from the article. Further information on this conference, or on any other omission from the Record, would be welcome.

Charter Flight to Japan, 1968

The next International Conference on Rheology will be held in Japan in 1968, at approximately the same time as an International Conference on Cosmetic Science. The Society of Cosmetic Chemists of Great Britain is proposing to charter an aircraft for those of its members wishing to visit Japan, and has offered to make joint arrangements with the British Society of Rheology.

Would any member of this Society who might consider availing himself of a charter flight to Japan please communicate (without any obligation) with the Editor of the Bulletin as quickly as possible. Further action depends on the response to this initial notice.

The cost of a charter flight to Japan is not known, but for comparison purposes a similar flight to a Cosmetic Conference in New York cost £75 per person.

First International Conference on Haemorheology

Haemorheology is a subject of rapidly growing interest and importance, in which, typically for a branch of rheology, those working in the field come from a wide range of disciplines: two of the foremost British practitioners are to be found in a Dairy Research Institute, and a University Department of Mining Engineering.

To give scientists of widely differing backgrounds the opportunity of discussing the flow properties of blood and the corresponding deformations of the vessel wall an International Conference is to be held at the University of Iceland, Reykjavik, from 10th-16th July, 1966.

The topics for the ten sessions are:

Haemorheological Theory	Plasma Proteins and Cellular
Model Studies	Aggregations
Haemorheological Techniques	In Vivo Studies
Ex Vivo Studies	Vessel and Vessel Wall
Cellular Elements	Clinical Haemorheology
Cellular and Fibrin Clotting	

The Chairman of the Executive Committee is Professor A. L. Copley (U.S.A.). Dr. R. L. Whitmore, University of Nottingham, is the Secretary for Europe, Israel and Australia.

The Proceedings, edited by Professor Copley, will be published as soon as possible after the Conference.

[It is hoped that an article on the rheology of blood will appear in a future Bulletin.]

Annual Conference of Groupe Français de Rhéologie

As reported earlier the Annual Conference will deal with "Problèmes énergétiques en rhéologie." The date has, however, now been changed to Tuesday, 17th May. In conjunction with the meeting, which is to be held in Paris, there will be a small exhibition of viscometers.

Any members interested in the meeting should contact M. B. Persoz, 68 Boulevard Saint-Michel, Paris 6e.

NOTES AND NEWS

A symposium on "Advances in Polymer Characterisation" will be held in the University of Manchester, 20th-21st April, 1966. Two sessions of particular interest to rheologists will deal with "Properties of Amorphous Polymers," and with "Crystallinity and Crystallisation."

Details from: The Registrar, The Manchester College of Science and Technology, Manchester 1.

The Society of Petroleum Engineers is to hold a special symposium on the Mechanics of Rheologically Complex Fluids at Houston, Texas, on 16th December, 1966. Two sessions will be held, dealing with "Complex Fluids in Porous Media" and with "Complex Fluid Mechanics."

Further information from J. G. Savins, Research Dept., Socony Mobil Oil Company, Inc., P.O. Box 900, Dallas, Texas 75221, U.S.A.

The Spring Meeting of the Netherlands Society of Rheology will deal with "The Glass Transition of Polymers," and will be held at Valkenberg (Limburg) on 16th and 17th May, 1966. Both theoretical and experimental aspects of the subject will be covered. Members interested should contact Dr. C. A. F. Tuijnman, Central Laboratory, Staatsmijnen in Limburg, Postbus 18, Geleen, The Netherlands.

The Dept. of Chemistry, Northampton College, London, E.C.1., is holding its Fourth Annual Conference on Adhesions and Adhesives on 20th and 21st April, 1966.

Both theoretical aspects and applications of the subjects will be discussed by lecturers from academic and industrial fields.

Rheology Courses at Battersea

The following lecture courses will take place next term:

Rheology of Polymer Melts, by Dr. C. J. S. Petrie (Department of Chemical Engineering, University of Cambridge) on Wednesday evenings, 6.30-8.30 p.m. commencing 27th April, 1966.

Rheology of Suspensions, by R. W. Whorlow (Battersea College of Technology), C. C. Mill (P.A.T.R.A.) and R. T. Bullett (Paint Research Station).

A course for full-time or part-time students leading to the M.Sc. degree or the Diploma of the (proposed) University of Surrey in Rheology will begin in October 1966.

Further particulars of these courses may be obtained from Mr. R. W. Whorlow, Department of Physics, Battersea College of Technology, London, S.W.11.

[Three instruments used in the M.Sc. Course teaching laboratory were displayed at the Physics Exhibition at Alexandra Palace.]

Advertisements for the Bulletin

The editor is always pleased to receive details of any meetings or courses which may be of interest to the Society's members. Such notices are inserted in the Bulletin free of charge.

Advertisements for appointments in a rheological field are accepted for a charge of £5 5s., and will normally be displayed on a whole page at the back of the Bulletin.

For rates regarding members' private advertisements please contact the Editor.

New Members

- J. Astin, B.Sc., M.Sc.,
Dept. of Applied Mathematics, U.C.W.,
Physical Sciences Building, Penglais, Aberystwyth.
- B. W. Barry, B.Sc., M.P.C.,
Dept. of Pharmaceutics, School of Pharmacy,
Brunswick Square, London W.C.1.
- S. S. Davis, B.Pharm.,
School of Pharmacy, Brunswick Square,
London W.C.1.
- A. Evans, B.Sc.,
Dept. of Surgery, Medical School,
University of Newcastle upon Tyne.
- R. B. Evans,
National Adhesives Ltd.,
Slough, Bucks.
- R. G. Foster, B.Sc., A.P.I.,
National College of Rubber Technology,
Holloway Road, London N.7.
- K. R. Frater, B.Sc.,
Applied Maths. Dept.,
University College of North Wales,
Bangor, Caerns.
- J. Glasby, B.Pharm.,
Pharmaceutics Dept., School of Pharmacy,
Brunswick Square, London W.C.1.
- J. L. Maddock, B.Sc.,
Physics Dept., U.C.W.,
Physical Sciences Building, Penglais,
Aberystwyth.
- J. E. Rees, B.Pharm., M.P.S.,
Pharmaceutics Dept., School of Pharmacy,
Brunswick Square, London W.C.1.
- B. O. Shorthouse, Ph.D.,
Sangamo Controls Ltd.,
North Bersted, Bognor Regis, Sussex.
- D. Sturman, B.Sc., Grad.Inst.P.,
B.I.P. Chemicals,
Research Labs., Tat Bank Road,
Oldbury, Birmingham.
- R. T. Taylor, H.N.C.,
Plant Protection Ltd.,
Jealott's Hill,
Nr. Bracknell, Berks.
- J. E. Romain, Ph.D.,
19 Avenue des Becasses,
Waterloo, Brabant, Belgium.

THE BRITISH SOCIETY OF RHEOLOGY

Annual Conference 1966

DEFORMATION AND FLOW
IN
HIGH POLYMER SYSTEMS

Loughborough College of Technology

14th—16th SEPTEMBER

Joint Conference Secretaries:

DR. R. E. WETTON,
Dept. of Chemistry,
Loughborough College of Technology,
Loughborough, Leics.

MR. R. W. WHORLOW,
Dept. of Physics,
Battersea College of Technology,
London, S.W.11.
