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THE BRITISH SOCIETY OF RHEOLOGY

BULLETIN



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OFFICERS AND MEMBERS OF COUNCIL

1985/86

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EDITORIAL

This issue includes various "statutory" items such as officers' reports and the AGM minutes. Some reports are held over until the next Bulletin.

The other items remind us that we have a fruitful past and a promising future as a Society. The current President reminds us, in his appreciation of the late Prof. L Treloar, of how we had a very worthy president who brought the study of rubber elasticity to the fore. We see also that the group led by Prof. K Walters, another ex-president, is still surging forward on a wave of ample funding and new blood.

David Heyes' advert for the meeting on "Molecular Approaches to Rheology" gives an eye-catching and amusing view of a future trend.

Lastly, don't forget the adverts! Two Weissenberg Rheogniometers for sale from research establishments - a sign of the times?



Your committee with friends!

Howard Barnes

British Society of Rheology

Minutes of the 45th Annual General Meeting

The meeting was held in the Department of Letters at the University of Reading on Tuesday 10th September 1985.

The President, Professor I.M. Ward was Chairman. Thirty seven members were present. The meeting began at 5.10 pm.

1. Minutes of the 45th Annual General Meeting

The minutes of the 44th meeting had been published in the Bulletin (Vol. 27, No. 4, pp 50-52). They were approved without alteration and signed by the Chairman.

2. Matters arising from the Minutes

There were no matters arising from the minutes.

3. Chairman's Remarks

The President announced the council had awarded the Society's 1985 annual award to Dr. R. Buscall of Imperial Chemical Industries plc. The presentation would be made after the conference dinner that evening.

4. Report of the Treasurer

The treasurers report was presented by the retiring treasurer, Mr. T.A. Strivens. It is printed in this Bulletin.

There was a discussion on how to best employ the Society's considerable assets. Suggestions included (a) sponsoring overseas speakers to travel to our conferences and give plenary lectures and (b) paying for more U.K. rheology students to attend conferences abroad. It was the wish of the meeting that Council should actively seek ways of using its assets to promote the science of rheology.

Dr. A. Evans proposed and Mr. H. Schimanski seconded his proposal that the present auditors should be retained for the year 1985-86 at the same level of remuneration.

A vote of thanks to the retiring treasurer was proposed by Mr. S.T.E. Aldhouse and approved by acclamation.

5. Membership Secretary's Report

P.C. Andersons' report for the year 1984-85 is printed in this Bulletin.

Extensive use is being made of the Society's computer. Not only does this help with the day to day running of the Society's affairs but it had recently been particularly useful in the preparation of the new list of members.

6. Bulletin Editors Report

Dr. Barnes presented his report. There were no comments.

7. Report of the Abstract Editor

Dr. Oliver's last report as editor is printed in this Bulletin.

He reminded the meeting that on the previous evening there had been a dinner for abstractors. It is planned to repeat this popular innovation at two or four year intervals. A note of thanks to Dr. Oliver for his service as Abstracts Editor was proposed by Mr. Aldhouse and acclaimed by the meeting.

8. Secretary's Report (Printed in full in this Bulletin)

Members stressed the desirability of ensuring that the Scott Blair collection at the U.C.W. library should be maintained as an on-going source of information for rheologists, and particularly students. The secretary said the contents of the collection would be published in the Bulletin as soon as cataloguing had been completed. It was suggested by Dr. Cheng that Council should purchase books rather than waiting for donations to be made to the library.

The meeting approved by a large majority that the society tie should be made available to members. Sample designs were circulated. The most popular was a red and white single logo on the navy blue background.

Dr. Buscall drew the meetings attention to the forthcoming conference on Inter Facial Rheology.

9. Election of Officers and Council

The secretary reported that he had not received any additional nominations other than those proposed by council.

It was proposed by Mr. T.F. Hutton and seconded by Dr. W.M. Jones that the councils nomination should be accepted.

Thus the full Council was elected as follows.

President:	Professor I.M. Ward
Secretary:	Dr. J.J. Benbow
Treasurer:	Dr. A. Evans
Membership Secretary:	Mr. P.C. Anderson
Abstracts Editor:	Mr. S.T.E. Aldhouse
Bulletin Editor:	Dr. H.A. Barnes.

Ordinary Members:

Dr. F.S. Baker
Dr. D.R. Oliyer
Dr. C.J.S. Petrie
Mr. H. Schimanski
Mr. T.A. Strivens
Dr. P. Townsend

10. Any Other Business

This year Dr. D C-H Cheng has retired from Council. The debt which the society owes to Dr. David Cheng for his services on the council were expressed, He had served as a highly active Membership Secretary from 1979-83 and as a valued council member for the past two years.

There being no other business

The meeting closed at 5.45 pm.

J. J. Benbow
14.10.1985

Secretary's Report

A major event this year has been the donation by Dr G W Scott Blair of his rheological library to the Society. This unique collection has been taken to the University College of Wales Library at Aberystwyth where it will be permanently stored. The word stored is perhaps misleading because it is intended that it should be available to rheologists for reference. As a society, we are extremely grateful to one of our founder members for this generous gift. We will be adding to the collection journals which are received by the Society and books which may be donated to us in future. It is intended to publish details of the collection in the Bulletin as soon as the cataloguing has been completed. Responsibility for the care of the collection has been undertaken by the librarian. On behalf of the Society, Dr Howard Barnes will be liaising with the library and he will receive local help from Dr W M Jones.

A collection of Rheology Abstracts and Bulletins is also held in the library of the University of Sheffield.

It is hoped to make this complete in the near future and then to keep it up to date.

The first of this year's two conferences was organised by J F Hutton and held at U C W Aberystwyth in September 1984. A one-day meeting on "Rheology of Lubrication and other Industrial Processes" was followed by an Industrial Rheology Workshop in which all its speakers were Fellow of Colleges. An account of this conference has been given by Ralph Oliver in Volume 27 Number 4 of the Bulletin. The second meeting was a one-day symposium in "Rheology in the Process Industries". It was held at the Learned Societies Lecture Theatre, London, on the 8th May 1985. This was a joint meeting with the Royal Society of Chemistry. Howard Barnes looked after the organisation on behalf of the Society. An account of the IXth International Congress on Rheology which was held at Acapulco in October was given by Chris Petrie in Volume 28 Number 1 of the Bulletin. By all accounts, this was another successful event and a pleasant opportunity to exchange information both

formally and informally. Leisure activities included some hotly contested games of tennis!

Future conferences are planned on the topics of "Molecular Approaches to Rheology" in London on March 24th to 25th 1986, "Food Rheology" at Norwich in April 1986 and "Polymer Deformation" at Leeds in September 1986. The conference at Leeds will include a sponsored lecture, which will be published later in the Bulletin. Also in 1986, we can look forward to the International Conference on Visco-elasticity of Polymeric Liquids at Grenoble on January 13-16th and the 2nd European Conference of European Rheologists in Prague between 18th-20th June. We are considering holding a one-day meeting in the Spring of 1987 on "Particulate Rheology" and a three day conference on "Theoretical Rheology" in the autumn of that year.

From time to time the desirability of having a Society tie has been discussed informally. During the past year, this has been considered by Council and some designs have been obtained. Council now wishes to formally seek the views of the members on two points.

- (1) Is a Society tie wanted?
- (2) Would a substantial number be purchased?

On a more important level, Council would welcome members' suggestions of topics for future conferences and comments concerning the other activities of your Society.

J J Benbow

MEMBERSHIP SECRETARY'S REPORT

Annual General Meeting, 10 September 1985

The membership of the British Society of Rheology at the end of July 1985 stood at 591. The table below summarises the changes during the year.

	1984/85			1983/84
	UK	Overseas	Total	Total
Membership July 1984	393	209	602	-
New Members	24	7	31	73
Resignations	6	5	11	17
Deletions (rule 4d)	16	12	28	25
Deaths	2	1	3	2
Nett moves UK/Overseas	-2	2	-	1
Nett change	-2	-9	-11	+30
Membership July 1985	391	200	591	-

These figures are a little disappointing compared to last year, the main difference being the extra forty or so members recruited during the previous year. However 1983/4 was exceptional due to the excellent recruiting efforts of Harry Schimanski. The number of members who have had to be removed from the membership list due to non payment of their subs, continues to be disappointing. The situation does not seem likely to improve as some fifty members are still in arrears with their subs. Our subscription is obviously so reasonable that it is very easily overlooked by those members who do not pay by Bankers standing order. It has not been our policy to send out individual reminders at the start of each year because of the amount of work involved. A reminder is published in the Bulletin each year. Your Membership Secretary has attempted to persuade UK members to arrange to pay by standing order with some success. Approximately two thirds of our UK members now have such arrangements.

During the year Ken Beazley, John Hutton, Paul Langborne, Ken Walters and Bernard Wright were elected to Honorary membership of the Society. The Society now has 42 Honorary members. It was with great regret that we heard of the recent death of Professor Treloar, an Honorary member and our President in 1953-55.

The Society's Apple microcomputer has continued to be of great use to your Membership Secretary in keeping track of members' subscriptions and address changes and for producing the mailing labels for our publications. I would appeal to all members to remember to tell me when they change their address. Each year we loose track of a few members who move without informing us. The microcomputer has also finally allowed us to issue a new membership list after an interval of seven years. I do hope you do not find too many errors in it.


P.C. ANDERSON

The task of finding new abstractors to fill gaps left by our prolific (and generous) contributors of the past is partially complete. We are very much in debt to our abstractors and replacing them is an on-going problem.

The style of the abstracts, using camera-ready copy, has now been established for the ten years. During this time there have been minor changes, such as reducing the size of the print, making the titles bolder and introducing a short section dealing with recent U.S. patents. It has become quite common to publish a complete series of abstracts, from conferences of the Society; Pergamon help in the this respect by providing a separate booklet when requested. The share of profits which we receive from Pergamon has held up well, being £2484 in 1984 and £2650 in 1985.

I must also thank Brian Toms for performing the time-consuming task of compiling the Subject Index, which he has done with great efficiency. I have enjoyed my four years looking after the abstracts and I do think that three or four years in a particular office is about right. In some organisations people carry on for far too long, yet any lesser time gives the man insufficient time to make much impact. I must wish my successor, Steve Aldhouse, the best of fortune in continuing this Editorship.

Dr. R. Oliver.

In his early academic career, Richard Buscall studied the colloidal and physical chemical aspects of two phase systems. When he turned his attention later to rheology, this gave him a good spring-board to tackle the mechanical behaviour of particulate materials.

For his PhD with Professor Ottewill at Bristol University, he carried out research into the properties of thin liquid films. Later, he spent two years doing post-doctoral research on emulsions at the University of Aston. His second post-doctoral appointment was as an ICI Joint Research Fellow at Bristol working on the rheology of concentrated suspensions.

In 1978, he joined the ICI Colloid Science Group at Runcorn and in 1983, was appointed a Laboratory Research Associate. Requests for his advice on rheological problems were numerous and his excellent reputation soon spread to the overseas part of the Company.

Richard's rheological work in industry has been concerned with many types of particulate materials and has specialised in predicting the behaviour of suspensions in various processes and applications from small-scale laboratory experiments and understanding the origins of their rheological behaviour.

He has published about thirty papers and is joint author of a book on Polymer Colloids. In 1983, he was an invited speaker at the Faraday Discussion on Concentrated Dispersions and was also guest speaker at the Third National Rheology Conference at Melbourne. Among his many other scientific lectures have been two to the British Society of Rheology on the rheology and sedimentation of concentrated suspensions.

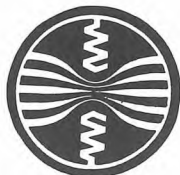
One of the purposes of the British Society of Rheology's annual award is to encourage outstanding young rheologists. It is for this reason the award is made to Dr Buscall. One of Richard's hopes is to see the physics and engineering of disperse systems placed on as sound a basis as that of gas phase engineering and he is currently working on a new theory of solid-liquid separation in collaboration with

Professor L R White of Melbourne University. We wish him well in this task and hope that his research continues at its present very high levels of output and standard.



THE BRITISH SOCIETY OF RHEOLOGY

APPLICATION FOR MEMBERSHIP



1) Full Name and Title

2) Degrees, Diplomas, etc.

3) Private Address

Tel.

4) Business Address

Tel.

5) Position Held

6) Interests (see over page).

7) I wish to apply for Membership of the British Society of Rheology and if elected I agree to abide by the rules and Constitution of the Society.

I understand that the Society's Journals will be supplied for my own personal use and I undertake not to pass them to a library. I should like my membership to date from (Note ii). I enclose cheque/P.O./M.O. for (Note iii).

Applicant's signature Date

8) I being a fully paid up Member of the Society recommend for election to Membership.

Member's Signature Date

NOTES.

i. This form when completed should be returned to the Honorary Membership Secretary:

Mr. P. C. Anderson
32 Queensway, Feltham
Middlesex, TW13 7NS
Telephone: 01-890 6586

ii. A person applying after 1st July in any year may choose to date his membership from the following 1st October. All other memberships will be dated from the preceding 1st October
iii. The first subscription is due on election but it will reduce administrative work if each applicant will send it with his application together with the entrance fee of £1. If the application is rejected the money will of course be returned. The present annual subscription is £5 and is due on 1st October in each year.

P.T.O.

CLASSIFICATION OF RHEOLOGICAL ACTIVITIES

It would be helpful to the Society for organising its meetings and publications so that they are of maximum benefit to members if you would complete the questionnaire below. Your replies will be entered in the published Membership List.

Place ticks in appropriate boxes.

1. Is most of your work of rheological concern? (f); or ☐
Does rheology enter into your work only occasionally? (p) ☐
2. Are your rheological interests mainly ☐
(t) Theoretical ☐
or
(e) Experimental ☐
or
(et) Theory and experiment ☐
3. Are your rheological interests mainly ☐
(s) Pure science ☐
or
(a) Technology ☐
or
(sa) Pure and applied science ☐
4. Do you have a secondary interest in branches of rheology which you have not indicated in the list of major interests below? ☐
Yes ☐
No ☐
5. Which materials in the list below are of major concern to you?

A Metals, alloys	☐
B Composites (e.g. fibre-reinforced resins)	☐
C Solid polymers	☐
D Molten or dissolved polymers	☐
E Natural fibrous materials (e.g. cotton, paper, wood, wool)	☐
F Liquid—liquid systems (e.g. emulsions)	☐
G Liquid—solid systems (e.g. suspensions, slurries)	☐
H Particulate solids (e.g. granules, powders, fluidised beds)	☐
I Glasses, ceramics	☐
J Oils, greases	☐
K Building and road materials	☐
L Foodstuffs	☐
M Biological materials (e.g. blood, tissue)	☐
N Theoretical materials	☐
O Other materials (<i>please specify</i>)	☐

FOR OFFICE USE ONLY

Received	Considered
Acknowledged	Decision
	Informed

CONFERENCE REPORT

The Fourth National Conference on the Mechanics and Technology of Composite Materials was organised by the Bulgarian Academy of Sciences at the Black Sea resort of Drouzhba near Varna, Bulgaria.

The Conference had invited international participants and in the event delegates from nine countries attended, including Great Britain and Western Germany. Two themes, dealing with Constructional Silicate Composites (i.e. concrete) and Constructional Polymer Composites (filled and reinforced resins) were each divided into considerations of the rheology of the fresh, unhardened materials and of the structure, properties and technology of the final product, with by far the majority of papers dealing with the latter topics.

Nearly 200 papers appear in the proceedings, but not all of these were presented in the two parallel working sessions, which left time to enjoy the counter attractions of clear blue skies and a warm sea. The whole conference was conducted in a relaxed and friendly manner and the international participants were made most welcome.

Understanding the technical content of the presentations was hampered by the fact that only one of the two halls used was equipped with simultaneous translation facilities (English, Bulgarian, Russian) but a consistent theme throughout the meeting was the determination of East European countries to produce their construction materials more efficiently. To give two examples, one paper described the reduction of water contents in the slurries fed to cement works with similar rheology leading to a reduction in power consumption and another gave details of a computer modelling method for predicting the flow properties of filled polymer resin, enabling more efficient use of the fillers available. While this theme could simply have been described in a phenomenological manner, it was also apparent that strenuous efforts are made to understand the underlying science.

Overall, the conference was a happy and enjoyable event at which I was made most welcome and I would encourage my Western European colleagues to put such a meeting high on their list of priorities. I, for one, shall be doing some homework on the Cyrillic alphabet.

P.F.G. BANFILL

MEMBERSHIP NEWS

The following applications for Membership were approved at the Council Meeting on 9th September 1985.

Dr David G. GILBERT
Drilling & Completions Branch
BP Research Centre,
Chertsey Road, Sunbury-on-Thames
Middlesex, TW16 7LN

B.Sc. (Hons.), Ph.D.

fetsa BCDIN

Mr Brian SIMPSON,
Scientific Services
NEI International Combustion Ltd.
Sinfin Lane, Sinfin,
Derby, DE2 9GJ.

C. Phys., M. Inst. P.

peta GHJ

RESIGNATIONS

Dr K Clare Kelco/AIL Intl. Ltd. San Diego, USA. Joined in 1970

Dr D Heath ICI Plc, Jealott's Hill Research Station. Joined in 1980.

MOVEMENTS ABROAD

Dr A Garcia-Rejon, Universidad Nacional Autonoma de Mexico is on sabbatical leave at the National Research Council, Boucherville, Quebec, Canada.

Dr D J Greenwood has returned to ICI Paints, Slough after a secondment to Dulux Australia Ltd.

Dr P E Halstead is now at Materials Measurement Ltd., GPO Box 4194, Hong Kong.

oooOooo

OBITUARY

The late Professor L.R.G. Treloar, O.B.E.: an appreciation by the President

Professor L.R.G. Treloar, who died on 18th March this year, played a major role in the development of rubber elasticity and related subjects, and helped to establish the subject of polymer science in this country.

Leslie Treloar read Physics at University College, Reading (now the University of Reading) graduating in 1927. He then joined the General Electric Company, gaining his Ph.D. from the University of London in 1938 for a thesis entitled "Secondary-electron emission from complex surfaces". Treloar left GEC in 1938 to join Geoffrey Gee (and J.L. Holland) to form the nucleus of the physical group in the newly formed British Rubber Producers Research Association. This group worked initially in a cellar of Rideal's Colloid Science Laboratory at Cambridge, moving to Welwyn Garden City in 1939. Leslie Treloar worked at BRPRA from 1938-49, and under Geoffrey Gee's aegis soon made several fine contributions to the subject of rubber elasticity. In addition to some collaborative research with Gee on polymer solution thermodynamics, Treloar carried out extensive experimental studies of the stress strain behaviour of rubbers, as well as making important theoretical advances in the statistics of paraffin and polyisoprene chains and in the elasticity of networks. To his initial chagrin, Treloar was drafted for war service at TRE for two years in 1943-4 to help in the radar developments. This secondment had, however, a very important consequence

for his subject. At Malvern, Treloar met Ronald Rivlin and introduced him to the problems of finite strain elasticity, problems which Rivlin subsequently tackled enthusiastically and led to a mutually profitable relationship when both subsequently returned to work at BRPRA.

In 1949 Treloar left BRPRA, following the previous Director of that establishment John Wilson, first to the Royal Institution and later (from 1954-61) to the British Rayon Research Association, Manchester. After a short period at the Shirley Institute (1961-63) Treloar was appointed Reader and then Professor in the Department of Polymer and Fibre Science at UMIST, where he worked with unflagging enthusiasm and unabated effectiveness up to and beyond his official retirement in 1983.

Leslie Treloar made many valuable contributions to Rubber Elasticity and to Polymer Physics as a whole. These were marked with the award of the Gold Medal of the British Society of Rheology, the Griffith medal of the Materials Science Club, the Warner Memorial medal of the Textile Institute, the Colwyn Medal of the IRI, the Swinbourne Gold Medal of the Plastics Institute and the OBE in 1965. It is, however, as the author of "The Physics of Rubber Elasticity" and as a lecturer, teacher and colleague that Leslie made his most important contribution to Polymer Science.

Leslie Treloar was a fine colleague who was always ready to discuss problems and volunteer direct assistance whenever required. His judgement on scientific matters was excellent, and he also showed wisdom in practical matters was excellent, and he also showed wisdom in practical matters, for example when he acted as President of the British Society of Rheology during the period 1954-5 and as Chairman of the Polymer Physics Group of the Institute of Physics from 1976-80. All those who knew Leslie will grieve his passing, but be sustained by the memory of his elegant contributions to polymer science, the warmth of his enthusiasm for the subject, and his many personal kindnesses to those around him.



I M Ward
3rd October 1985

In recent months, a research group within the School of Mathematics at UCW, Aberystwyth, has successfully negotiated research grants and contracts totalling over £300,000. The money has come from the Science and Engineering Research Council, the Department of Energy, British Industry and various EEC initiatives. It will ensure a buoyant research activity for at least the next three years.

The group works in the field of Rheology, which is the Science of Deformation and Flow. The research work is under the direction of Professor Ken Walters, who has been at UCW, Aberystwyth since 1960. He was recently awarded a D.Sc. degree by the University of Wales for his research work in non-Newtonian fluid mechanics.

The research involves both theoretical and experimental work, something which is virtually unique within the British University system. Widely differing materials are studied ranging from the mobile fluids used in Enhanced Oil Recovery to very viscous molten plastics. A new departure will be a detailed study of the new fibre reinforced thermoplastics which are likely to be used as the mainframe materials of the next generation of commercial jet aircraft. This work will bring the group into close contact with ICI. Related work is of immediate relevance to such multinational firms as Unilever and Courtaulds. In fact a number of the research students in the group are financed by Industry.

The Rheology group has recently been active in pioneering developments in the numerical simulation of non-Newtonian flow. This is part of a wider field called Computational Fluid Dynamics which is the study of fluid flows by computer. Professor Walters and Dr Russell Davies, a senior lecturer in the Applied Mathematics Department, were awarded one of the so-called 'new-blood' lectureships to support work in this field. Dr. Tim Phillips, an Oxford graduate, was appointed to the post in 1984. Professor Walters and Dr Davies, together with a Belgian collaborator, Professor Marcel Crochet, recently wrote the first research text in the field. Work in this field is expanding so rapidly that the book is already out of print and is being reprinted.

The grants from the EEC Science Stimulation and BRITE initiatives will involve close contact with Belgian and French Universities and with the French firm Telemecanique.

When all the appointments are made, the group will consist of five permanent members of staff, five postdoctoral research assistants, twelve research students and three technicians.

The photograph shows the group studying fluid flow simulation displayed on one of the department's microcomputers. The group is, from left to right, seated Professor Walters and Dr Phillips, standing Dr Davies, Dr Spencer Jones and Dr Horst Holstein. All are members of the Applied Mathematics Department at UCW, Aberystwyth, except Dr Holstein, who is now in the Department of Computer Science.



ANNOUNCEMENT

Second Conference of European Rheologists
June 17 - 20, 1986
Prague, Czechoslovakia

Organizers

Group of Rheology of the Czechoslovak Chemical Society and
Institute of Hydrodynamics of the Czechoslovak Academy of Sciences

Scope of the Conference

The Conference will be concerned with the results in the following subject areas: Theory, Transport phenomena in rheological systems, Rheometry, Solids and composites, Rubber, Suspensions, Polymer rheology and processing, Biorheology and medical applications, Food rheology and processing, General.

Preliminary Program

The preliminary program consists of 13 plenary lectures and 350 contributed papers. Plenary lectures will be presented by /in alphabetical order/
G. Astarita, E. Baer, J.M. Dealy, H. Giesekus, C. Huet, J.L. Leblanc, A.Y. Malkin, A.B. Metzner, C.J.S. Petrie, W.R. Schowalter, J. Šesták, J.F. Stoltz, K. Walters.

Language

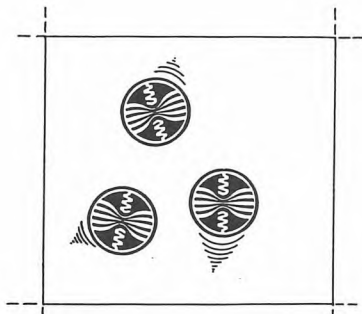
The official Conference language is English.

Participation

Applications for attendance are invited. Those wishing to receive the preliminary program of the Conference and further information are kindly requested to write to the address below.

Address for Correspondence:

2nd EURO-RHEO Conference
Institute of Hydrodynamics
Czechoslovak Academy of Sciences
Podbabská 13, 166 12 Prague
Czechoslovakia



The BRITISH SOCIETY of RHEOLOGY will be holding a workshop entitled:

"MOLECULAR APPROACHES TO RHEOLOGY"

at

Royal Holloway and Bedford New College

University of London

(Pleasantly situated next to Windsor Great Park!)

on

24th and 25th March 1986

Startling new advances have been made in the theoretical and computer modelling of rheology starting from behaviour at the molecular level. (1) For example, it is now possible to follow the motions of model molecules within liquids under shear flow using the new technique of Non-Equilibrium Molecular Dynamics (NEMD), enabling us to discover the microscopic origins of non-Newtonian flow. In recognition of these exciting new developments the BSR is sponsoring a workshop aimed at bringing together scientists interested in rheology from a variety of backgrounds to discuss their rheological work in the context of its microscopic origins. Expertise in these new modelling techniques, and on polymer theories and continuum macrorheological approaches will be present. Participants will take part in a loosely structured 'round-table' discussion designed to promote the informal interchange of ideas and establish the most profitable directions for new research. Collaborations might even be initiated! To assist this task it is suggested that attendees come along with short presentations (say, of 10-15 minutes duration) outlining their interest and problems in this area, and which can be called upon at opportune moments (!).

In order to gain a better appreciation of NEMD, delegates will be given the opportunity to mingle with more Molecular Dynamics expertise on the final afternoon, the 25th March. The SERC CCP5 organisation will start their Discussion/Workshop on the "Microscopic Modelling of Transport Processes" then and hold it jointly with the BSR for the afternoon. Discussion will be on appraising methods for simulating Newtonian and non-Newtonian viscous effects.

The BSR workshop will start with lunch on Monday 24th March and will conclude late in the afternoon on Tuesday 25th March.

The cost of the Meeting is £30.00, which includes all meals and refreshments, and accommodation on the night of the 24th.

If you would like to attend please send a cheque made out to "BSR Meeting" for £30.00 and send it to:

Dr D M Heyes
Department of Chemistry
Royal Holloway and Bedford New College
Egham
Surrey TW20 OEX
U.K.

by Monday 24th February 1986 if possible.

It would be appreciated if you would give me your full first name, whether you are female or male, and your full address so I can construct a list of names and addresses for us all.

Do you think you could also outline your interests in this area and what you hope to get out of the meeting?

SCIENTISTS FROM ALL AREAS OF RHEOLOGY ARE WELCOME IRRESPECTIVE OF THEIR KNOWLEDGE OF MODELLING. A DESIRE TO UNDERSTAND AND EXPLAIN THEIR AREA OF RESEARCH IN TERMS OF WHAT THE MOLECULES ARE DOING IS THE MAIN REQUIREMENT.

Go on, give it a try!

- (1) See for example: D.J. Evans, H.J.M. Hanley and S. Hess
Phys. Today, 37 (1984) 26.

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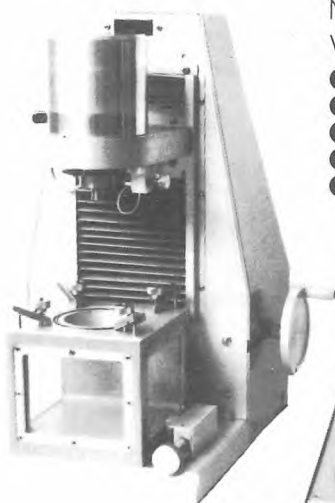
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