

THE BRITISH SOCIETY OF RHEOLOGY

BULLETIN

1997, Vol. 40, No. 3

With the First NEWSLETTER of

THE EUROPEAN SOCIETY OF RHEOLOGY

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EDITORIAL

This issue is the long awaited Bulletin of the British Society of Rheology combined with the first of the twice yearly Newsletter of the European Society of Rheology. My thanks go to Prof. Dr Manfred Wagner who coordinated collecting the articles from the various European groups. It was with great sadness that I found among these reports, the obituary of Gianni Astarita, with whom I had corresponded as your editor about rheological activities in Italy. Rather belatedly, I include in this issue an article I received from him earlier this year about the Working Party on Industrial Rheology. Whilst this Working Party is not a member of the ESR, it has asked for an affiliation to the Society. I have particularly fond, nay dramatic, memories of a visit my wife and I paid to Gianni and his delightful wife Nerina in their beautiful Naples home. Each in turn drove us around Naples showing us the sights, but most memorable was the true Italian driving accompanied by phrases such as: "but I am only going one way!" or "Oh those traffic lights don't mean anything!" or "I just smile sweetly at the cops if they stop me for doing 50 in town!".

This issue will be my last as your Editor as I shall be standing down from the BSR Council at the forthcoming AGM. With the rapidly increasing use of electronic means of communication, it has become obvious that it is less than efficient to work from home relying only on the old traditional telephone and post (snail mail). Having not been active in Rheology since I retired from BP and after having served for 15 years continuously on Council, it is time to hand over to 'younger blood'. I wish my successor good luck with the task.

Since I was first recruited to Council by David Cheng in 1982, I have been your Membership Secretary (1983-87), when I was the first to put the membership records onto a computer at home (an Apple with all of 64K of memory!) and had to register the Society with Data Protection registrar. This post also involved producing mailing labels and sticking them and stamps on some six hundred envelopes each quarter for the Bulletin. I was glad to pass on that task! For 1989-93 I was your treasurer and once again I had to set a first, having to register the Society for VAT, because of the 1990 Edinburgh conference. Doing the quarterly VAT returns was also a task I was glad to stop doing. Despite all these tribulations, I have very much enjoyed my time on Council and in particular the fellowship with members of Council at our quarterly meetings, which have taken me to all parts of the country.

P.C. Anderson, Hon. Editor

COMMENTARY: 288th COUNCIL MEETING

This meeting was held at the Lake Vyrnwy Hotel high up in the mountains of Mid-Wales, which, in my view, is one of the most spectacular venues in the UK. Lake Vyrnwy, with its Tolkienesque water tower, creeping mists, and surrounding hills stretching to the coast miles away, tempted each council member to lose concentration on the business at hand, but only now and again. Matters of of moment, described below, were given serious consideration, despite the diversions. The future of the Society is in safe hands.

We were here because of a workshop on Food Rheology: Experiment and Simulation, a report of which appeared in Bulletin Volume 40 no. 2. Several international scientists had been giving of their best for two full days, not only modelling and simulating, but also sampling. A few of us had been privileged to take part.

So what matters of moment in Council business impressed me most? It was good to learn that the European Society of Rheology had decided to establish a Weissenberg medal. The (American) Society has its Bingham medal, restricted to North American scientists only. The ESR is restricting its medal to Europeans only. Should there be a truly international Medal open to everyone? The BSR felt that opinion at large should be sought on this matter. Some council members seemed more enthusiastic than others.

What should be the main roles for the BSR in the new Millennium? Readers please consult the document 'Some Suggestions for Discussion' published in Bulletin Volume 40 no. 2., prepared by Paul Doody, Carole Moules and myself. We would be delighted to learn of readers' own views or suggestions. Please write to us or attend the next AGM. (23rd October 1997)

There were several other discussions. New cover photographs for each issue of the Bulletin; the progress of Rheology 2000, (the International Congress in Cambridge); the first ESR meeting in Porto Rosso, Slovenia, next year; the disbanding of the Scott-Blair Working Party as a result of Council's original goal having been achieved; and a last but not least, the award of travel grants to worthy students.

In Summary, definitely one of the more memorable Council Meetings.

Russell Davies

COMMENTARY: 289th COUNCIL MEETING

This meeting was held on the 18th June at the Swallow Hotel, Sheffield. The presence of Tom McLeish at this meeting was welcomed by all council members. Formal introductions were made for those of us meeting him for the first time and comments such as "hasn't he grown" from those who remember his last attendance.

Finding the hotel was a challenge for some members of council, finding the meeting room was a greater challenge even than this. Phil Banfill, who travelled the furthest, made good time to the hotel, but is still considering his expense claim with regards to the extra travel in finding the Terrace Meeting Room.

Geoff's minutes of the last meeting were pawed over with a degree of scrutiny never experienced before and all entries open to multiple interpretation removed before the chairman agreed to accept and sign them.

Weissenberg Medal nominees were discussed: Carole's suggestion that suitable nominee's should *currently* be in a position to be "touched and felt" met with some approval. A list of candidates to be "touched and felt" by the Council is still being compiled!

Peter Townsend presented his report before lunch: On the proposed Cambridge meeting, Robinson Hall has been selected for the main focus of the meeting, based on the superb menus and availability of suitable accommodation. "Johns" for those with less high demands (The Americans are not expected to take accommodation in this area) and student accommodation for those who wish to relive their halcyon, less prosperous, days.

Lunch. Turkey with all the trimmings. I won't reveal which member of Council was the first to crack under the temptation to mention Christmas! (Very sad!) It was quite interesting to observe the reluctance of some council members to accept the iced water, placed on the table, in the hope that a more 'substantial' beverage, with which to fill the only glass provided, might be forthcoming. It didn't happen and eventually we all accepted the less than generous provision.

Hon. Treasurer's report: Mike Webster - it has been confirmed that the Society's activities are indeed exempt from VAT. That's value added tax, not virtual absolute tedium).

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The subject of qualification for students to receive financial support when attending conferences etc. received much attention. It was felt that involvement by way of presentation should be a minimum requirement for such support. (Photographic and audio evidence may be demanded in cases where the suspicions of Council have been aroused).

With the AGM approaching, the group rounded up the meeting with the subject of Council membership. Names of prospective new members were put forward and commitment to further service solicited from those already on Council. As Carole was at pains to point out, "nobody is sure of reelection". Council - watch your backs! Members - watch this space! (Bulletin Editor's comment - Aaargh!! He could not attend this meeting)

Steve Robinson

**THE SOCIETY OF COSMETIC SCIENTISTS
ANNOUNCE AN EVENING MEETING
"GOING WITH THE FLOW"**

7 pm, OCTOBER 15th 1997 at the
COMPASS INN, just off the M4 at Junction 18

This Talk on the In-line measurement on the Rheological
flow properties of Cosmetics and other products
is free of charge and includes a buffet.

Any members of the British Society of Rheology are
welcome to attend.

Please contact the organisers for further information:

Ken Jones, Ellist Everard, 01277 630063

Colin Saunders, Steeple Laboratories, 01628 411523

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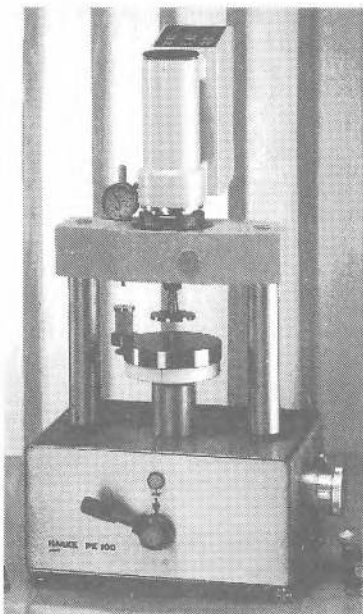
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ANNOUNCEMENT

University of Wales, Swansea

23 October 1997

Discussion Meeting

"The Future Role of the British Society of Rheology"

All BSR members welcome

Fulton House, University of Wales, Swansea

2pm to 3.30pm

British Society of Rheology AGM

3.30 pm

Tea - 4.30 pm

BSR/INNFM LECTURE

5 pm

The James Callaghan Building

"The Application of Rheology in Industry"

Dr Hans Martin Laun

BASF, Ludwigshafen

NOTICE OF THE 57th ANNUAL GENERAL MEETING

The 57th Annual General Meeting of the British Society of Rheology will be held on October 23rd at University College, Swansea starting at 16.00hrs.

Members are reminded that, under rule 7(b), the business of the meeting includes:

- a) Election of Officers and Council Members for 1997-98.
- b) Receipt of a report and 'audited' accounts from Council.
- c) Dealing with matters raised by Council or by any Member, and receiving suggestions from Members for consideration by Council.

Council's nominations are as follows

Hon. Secretary :	Dr G. J. Brownsey
Hon. Treasurer:	Dr M. F. Webster
Membership Secretary:	Prof. A. R. Davies
Bulletin Editor:	Dr P. D. Doody
Abstracts Editor:	Dr N. E. Hudson

Ordinary Members of Council:

Prof. P. F. G. Banfill
 Mrs C. A. Moules
 Mr S. L. Robinson
 Mr T. Dovey

Further nominations for Council or for any of the Offices are invited. Nominations should be sent to the Secretary or may be made at the meeting (see rule 5(b))

The Secretary would be pleased to receive notice of any matter that any Member wishes to raise.

Geoff Brownsey
 Hon. Secretary

MINUTES OF THE 56th AGM OF THE BRITISH SOCIETY OF RHEOLOGY.
CAVENDISH SUITE, De VERE HOTEL, COVENTRY
September 4th 1997, 15.00 hrs.

Present:

Prof. H. A. Barnes (President)
 Dr G. J. Brownsey (Hon. Secretary)
 Prof. P. Townsend (President elect)

People in attendance 27

1. Apologies for absence

These were received from Prof. T. McLeish and Prof. A. R. Davies.

2. Minutes of the 55th AGM

These had been published in the Bulletin Vol 39(2). Ralph Oliver proposed and Peter Anderson seconded the acceptance of the minutes of the last meeting as an accurate record. The President Howard Barnes duly signed them.

3. Matters Arising

There were no matters arising.

4. Reports of Officers.

4.1 President

The President read his report which was to be published in the forthcoming Bulletin (Vol 39(3)).

4.2 Treasurer

This was Mike Webster's first year as Treasurer and much effort had gone into the transfer of the accounts and some streamlining of facilities and benefits to the membership. There are four accounts held at the present time Main account (£27600); Membership (~£3500); Premier (~£36000) and Scott-Blair (£11000). Hence there is a healthy balance of the order of £77k. Mike clarified the position with regards to auditing the accounts which made it possible for activities, such as the BSR (charity) who have less than £100k pa to have external scrutiny of their accounts. Mike proposed to the meeting that the BSR should have its accounts made the subject of external scrutiny for audit purposes. John Benbow was in support of the proposal which he formally made and Ralph Oliver seconded. The vote was carried by the majority of those present. Prior to the vote questions were asked:

Q1) Is the independent scrutiny a cheaper option. In reply, Mike said that it was cheaper than using a registered accountant.

Q2) What about the year 2000 asked Nick Hudson, referring to the ceiling of £100k in the year of the International Congress. Mike confirmed that such expert scrutiny was allowable.

Further questioning of the Treasurer followed with Ralph Oliver asking where this sudden increase in assets had come from (compared to last year) whilst Peter Anderson wanted to know why there was so much money in the main account. The Treasurer replied that interest rates had been falling steadily and that the position was constantly under review. The increase in income was primarily due to Rheology Abstracts now being under the publication control of the BSR.

4.3 Hon Secretary

Geoff Brownsey read his report which was to be published in the forthcoming Bulletin (Vol 39(3)).

4.4 Membership Secretary

Nick Hudson distributed to the meeting a copy of the current state of the membership and said that it was his intention to publish a revised membership list next year. He pointed out that the main recruiters were present members and brought to our attention that the BSR remains the largest of the European societies.

Nick Hudson stated that he has a dual role as publication manager and would appreciate some feedback from the membership on the quality of our publications. Report in Bulletin 39(3).

Q) Rulande Rutgers raised an issue that though she would like to join, she doesn't know who to make payment to (It seems that she had been circulated with information that was incomplete. It had happened to some others at the meeting they said)

In questioning, Ralph Oliver noted that the membership had been stable in the region of 600 people for many years now and asked how many current members were from an industrial background. Nick Hudson confessed to not having the figures to hand but said that he would find out. However, he indicated that he thought the membership was equally divided between academics and industrialists.

4.5 Bulletin Editor

Peter Anderson said he would keep his presentation brief. This was his second year as Editor and the Bulletin was averaging some forty pages per issue. It had an income from advertising of some £4k. Now that the BSR publishes it, the publication costs are down. The front cover will be redesigned with the forthcoming special issue the last in the current year. In conclusion, he wished to thank all and appealed for copy, especially for the diary section.

Howard Barnes added that there was the possibility of the Bulletin being a vehicle for the European Society of Rheology.

4.6 Abstracts Editor

Gerry Meeten noted that it was nice to see a seamless change, from Pergamon Press/Elsevier. In the past, there had been a four hundred page/year restriction from our publishers for Rheology Abstracts but with it being published in-house, this restriction no longer applied. He acknowledged that there was potential for expansion (size) and thanked the abstractors, in fact, the whole team who appear in the inside facing page. There was special thanks from Gerry Meeten to Nick Hudson, for overseeing the change of publisher. Report in Bulletin Vol 39(3).

Ralph Oliver asked if most of our sales of RA were to libraries. Nick Hudson confirmed that this was the case. There was at present difficulty in exact figures since some copy was still purchased through agents. At present, the agent gets some 6.5% and profits for next year are expected to be in the region of £20k. David Cheng asked for clarification: could the reader be sure that every issue of a journal was covered in RA, and not merely random issues. Gerry Meeten replied that yes, more or less, the list of journals abstracted was a representative list but not a comprehensive list.

A general question was raised asking how the membership felt to information being available on the Internet. Carole Moules suggested that this question could be addressed by the current working group. There was also a request of members to let the council know of its views on the future role of the BSR.

5. Election of Officers

The Secretary tabled Councils nomination for the next Council. Howard Barnes, having completed his two year term of office vacated the chair for elections.

there being no other nominations from the floor, Prof. Peter Townsend, the president-elect nominee of Council was duly elected by the meeting. Peter took the Chair and gave a vote of thanks to the outgoing chairman Howard Barnes.

The Secretary informed the meeting that John Gearing had withdrawn his offer to stand for Council. There were no nominations from the floor and so the meeting voted, by a show of hands to the en bloc approval of those members as listed in the Bulletin Vol 39(2) p32. The Ordinary Members for Council were Prof Phil Banfill, Prof Russell Davies, Mr Paul Doody, Prof Tom McLeish, Mrs Carole Moules and Mr Steve Robinson.

6. Any Other Business

None

There being no further business, the meeting formally closed at 15.40.

FIRST EUROPEAN SOCIETY OF RHEOLOGY NEWSLETTER

A MESSAGE FROM THE ESR PRESIDENT

It is with much pleasure that I write this "Introduction". The birth of the European Society of Rheology has not been without its pangs, but it is now a reality and I am conscious of much good will and support.

The officers of the ESR met in Paris on November 20th and 21st, 1996 and I was heartened by the commitment of my fellow officers. On that occasion we prepared the way for the inaugural meeting of national representatives. That meeting, which was held in Leuven on March 4th was for me an impressive occasion, not least because the individual societies obviously considered the event to be of sufficient importance to send rheologists of significant stature and experience. So, for example, five of the representatives had been (or were currently) active in the organization of International Rheology Congresses, whilst three had been (or were currently) active in the organization of European Rheology Congresses.

There was no difficulty in persuading members to take an active role in the various subcommittees that were created to facilitate the future wellbeing of European Rheology. The suggestion of a 'Weissenberg Medal' was also greeted with enthusiasm. It is my hope that this award will command a much respect in Europe as the Bingham medal does in the United States.

So I commend the ESR to you. It has got off to an encouraging start, but that momentum will only be maintained by the enthusiastic support of the 1500 or so members of the individual national societies, who are now of course also members of the ESR!

K. Walters, FRS

NOMINATIONS FOR THE 1998 WEISSENBERG AWARD

The Committee of the ESR has decided unanimously to create a European "Weissenberg Award" for outstanding contributions to rheology. The 1st award is to be bestowed at the 5th European Rheology Conference (ERC), Slovenia 1998. Nominations are invited immediately; deadline is January 15th, 1998. Nominations should be submitted to the chair of the Weissenberg Award Committee:

Prof. Ken Walters
 Department of Mathematics
 University of Wales
 Aberystwyth SY23 3 BZ
 Great Britain
 Fax: +44-1 970 622 777

The following guidelines apply:

Eligible are rheologists whose centre of scientific activities lies in Europe.
 Nominations shall include:

- A brief scientific biography;
- A review of the nominee's accomplishments advancing the science of rheology upon which the nomination is based;
- A curriculum vitae with publication list;
- Supporting letters from other rheologists addressing the nominee's achievements.

M.H. Wagner

THE ESR AND ITS NEWSLETTER AN EDITORIAL BY THE SECRETARY OF THE ESR

Here it is, the first issue of the European Rheology Newsletter distributed to all individual members of Rheology Groups in Europe. Who said, it could not be done? It is only 4 years since the idea of a newsletter was first mentioned in an exchange of letters between the Presidents of the British and German Societies of Rheology (Bulletin 36 (1993) No 4, p. 93)... At the 1st Committee meeting of the ESR (Leuven, March 4, 1997), the offer of the BSR was accepted to expand two issues of the Bulletin to cover European business and to be European Rheology Newsletters. The ESR expresses its gratitude to the BSR and its officers. Thanks are due especially to the Bulletin Editor, Mr P.C. Anderson, and the Publications Manager, Dr. N.E. Hudson and his coworkers, for their honorary work, as well as to all of you, who have contributed to this first issue!

Any suggestions concerning the ESR and its workings are highly welcome. Please contact the Executive Committee of the ESR, Ken Walters FRS (President), Jean-Michel Piau (Vice President or "Immediate Past President"), Jan Mewis (Treasurer), or myself as Secretary of the ESR at the address given below. The following 12 Rheology Groups are founding members of the ESR: Austria, Belgium, Britain, Czech Republic, France, Germany, The Netherlands, Nordic Society of Rheology, Slovenia, Spain, Switzerland, and The Vinogradov Society. Three other Rheology Groups, Bulgaria, Greece, and Italy have observer status.

This Newsletter in some sense continues the tradition of the European Newsletter published for many years by the former European Secretary to the ICR, Chris Petrie, and distributed to the ICR delegates of European Rheology Groups. The Executive Committee of the ESR has expressed its sincere thanks to Chris for his long-standing services. Many ideas of his proposal as well as of Ralph Oliver's for a constitution of the ESR, submitted to the European delegates on the occasion of the 4th European Rheology Congress, Seville 1994, have been incorporated into the constitution of the ESR, reprinted in this Newsletter.

A key idea of the Newsletter is to bring together information on the multitude of rheological activities that are happening in Europe. This issue offers portraits of most of the Rheology Groups belonging to the ESR. To implement the goals of the ESR as expressed by its Constitution, the Committee of the ESR has agreed that thematic rheology conferences can be a useful tool to coordinate rheological activities in Europe and to avoid fragmentation. With the Newsletter in place, the ESR offers its good services to prospective organizers of rheology conferences. A working party consisting of Carl Klason (chair), Paula Moldenaers, Cris Gallegos, and Igor Emri has been set up to establish guidelines for **Eurorheo Conferences**. This Newsletter carries a report by Chris Petrie on Eurorheo 97/1, the 2nd DPL Conference (Capri, May 7-10, 1997). Please address your suggestions concerning Eurorheo Conferences to

Prof. Carl Klason
 Dept. of Polymeric Materials
 Chalmers University of Technology
 Hörsalsvägen 7
 S-412 96 Gothenburg
 Fax: +46-31-772 1313
 EMail: klason@polymm.chalmers.se

To establish a data base on **Rheological Expertise in Europe**, a second working party consisting of Jim Ferguson (chair), Cris Gallegos, Jean-Michel Piau, and Han Meijer was set up to collect and disseminate information. Please take a few minutes to fill out the questionnaire reprinted in this Newsletter, and send it to Jim Ferguson at the address given on the questionnaire.

Following prior experiences, it was decided to establish again a **European School of Rheology** with provision of good standard. A third working party consisting of Jim Ferguson (chair), Paula Moldenaers, and Pino Marrucci is to explore the possibilities of summer schools and the Erasmus scheme of the EU. A Short Course on "Rheological Measurements - Applications to Polymers, Suspensions and Processing" is organized in Leuven, September 8 to 12, 1997. For information contact:

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Department of Chem. Eng.
Katholieke Universiteit Leuven
de Croylaan 46
B-3001 Leuven
Fax: +32-16-322991
Email: jan.vermant@cit.kuleuven.ac.be

This being the first Newsletter produced on relatively short notice, I encourage suggestions for improvement! If you receive (by multiple membership to several Rheology Groups) more than one copy of this Newsletter, please pass it on to your coworkers and students. The future success of the Newsletter depends on your cooperation: Any information on rheological activities (meeting announcements, conference activities, organizational changes, medals, honours, ...) that might be of interest to your European fellow rheologists should be sent to the Secretary of the ESR at the address given below. **The copy deadline for the next European Rheology Newsletter is October 31st, 1997.**

I look forward to a bright future of European rheology through close collaboration of all scientists active in the field.

M.H. Wagner
IKT, Boeblingen Str.70
D-70199 Stuttgart
Fax: +49-711-641-2335
Email: wagner@ceylon.verfahrenstechnik.uni-stuttgart.de



The Committee of the European Society of Rheology (ESR)
at work in Leuven, March 4th, 1997.

From left to right: Mewis, Ferguson, Marrucci, Gaudu, Mitsoulis, Ivanov, Klason,
Walters, Wagner, Emri, Piau, Gallegos, Moldenaers, Meijer

CONSTITUTION OF THE EUROPEAN SOCIETY OF RHEOLOGY

1. Definition of the European Society of Rheology

Membership of the European Society of Rheology (hereinafter called **The Society**) is open to all European national societies and groups devoted to rheology (hereinafter called **Rheology Groups**) belonging to the **International Committee on Rheology**. The Society is set up under the laws of the European Union and shall be governed by this Constitution. The Society shall come into being after the Constitution has been approved by at least two thirds of the Rheology Groups which belong to The Society. Membership of a Rheology Group may be terminated by The Society if financial obligations or other duties of membership are not fulfilled. A Rheology Group may revoke membership by the end of a calendar year only. In the case of dissolution of the The Society, any net worth of The Society falls to the Scott-Blair collection*.

2. The Aims of The Society are

- To encourage European, and wider international, collaboration in all aspects of rheology.
- To promote rheology and be active at national and international level in seeking funds for rheological research, education and training.
- To act as a steering body for the European Rheology Conference and delegate its organization to a Rheology Group.
- To publish a Newsletter and circulate this to the Rheology Groups and their individual members.
- To collect news of conferences and other rheological activities and disseminate this in the Newsletter and in other appropriate ways.
- To investigate the possibility of further European publications, and consider how these may be made available to Rheology Groups and their individual members.

* This is a collection of books and papers on Rheology set up by endowment from the estate of the late Dr. George Scott-Blair, a pioneer of British Rheology, and is built on his own large collection of books on the subject. The collection is presently housed at the University of Wales, Aberystwyth.

3. The Society shall be governed by a Committee and its Officers

The Committee shall consist of one delegate from each Rheology Group belonging to The Society, together with the Officers. The Delegates shall be appointed by the Rheology Groups in whatever way the Rheology Groups wish (without restriction imposed by the Society), normally for a period of at least four years. The Delegates shall elect Honorary Officers of The Society, not necessarily from among the Delegates. The Officers shall be the President, Past-President, Secretary and Treasurer. The Officers shall be elected for a period of four years. The President shall be Past-President for the next four-year period. Neither the Secretary nor the Treasurer shall be permitted to hold office for more than eight years consecutively. No monies of The Society shall be used for travel or other personal expenses of Delegates or Officers.

The Committee shall meet on the occasion of each European Rheology Conference, and on such other occasions as are deemed necessary. Decisions of the Committee shall be taken, as far as possible, by consensus. If a vote is necessary, it shall be decided by a qualified majority. This is defined to be more than half of those eligible to vote. Decisions may be taken following a postal ballot, with communications to the Secretary by letter, FAX and electronic mail being acceptable.

The Officers shall normally meet once a year to execute the policy of The Society as defined by this Constitution and the decisions of the Committee.

4. Operation of The Society

A subscription shall be levied on each Rheology Group, in proportion to its membership, at a rate determined by the Committee. The subscription for a calendar year shall be due in September of the previous year. Failure to pay the subscription will result in a withdrawal of services (e.g. the News-letter) and privileges of membership, and will render the member liable to termination of membership by the Committee. The Committee shall have power to seek further financial levies in pursuit of its agreed aims, either from the European Rheology Conference, through its organisers, or from members of The Society when necessary.

Rheology Groups shall make every effort to accord the same privileges to individual members of all Rheology Groups belonging to The Society as they accord to their own individual members, e.g. access to and discounts at conferences.

IN MEMORIAM PROFESSOR GIANNI ASTARITA

Prof. Astarita intended to participate in the 2nd International Conference on the Dynamics of Polymeric Liquids (Eurorheo 97/1), which was held in Capri, May 7th – 10th, 1997, with a paper on "The use of DPL methodology in other areas, particularly granular flows". It was with great sorrow and commotion that the delegates learnt from Prof. G. Marrucci about the unexpected death of Prof. Astarita. We reprint below the obituary given by Prof. Marrucci at the Conference:

"On Monday, April 28th 1997, Professor Gianni Astarita died prematurely at the age of 63. He was supposed to be with us today. I believe that in our community of rheologists his name and his achievements are well known. Yet allow me to recall here some aspects of his professional life and his personality.

He joined the Engineering Faculty of his home town University, here in Naples, in the early sixties. He started immediately to update the chemical engineering curriculum, also imparting to it an international flavour that it has since maintained. He was then, and has been since, a superb teacher, who would transmit professional enthusiasm to his class. Himself a former student of Bob Pigford, one of the founding fathers of chemical engineering, he was intrigued at the time by diffusion processes coupled with chemical reactions. His expertise in that field, particularly in gas treating, was kept and further augmented throughout his professional life. Together with innumerable papers, invited talks, and short courses, he produced two successful books, one with Elsevier and one with Wiley, the second of which translated into Chinese. As recently as a year ago, he co-authored a paper in Chem.Eng.Sci. entitled "Containment of Phosgene Accidental Release: Use of Chemically Reactive Liquid Curtains", which resulted from an European Community research project.

Promoted to the Chair of Chemical Engineering Fundamentals as early as 1966, he soon started diversifying his scientific interests over a wide range, a characteristic feature of his personality. He would write papers, and talk to conferences and seminars, on almost any subject of the profession. He happened to be intrigued by something he has read or heard, and he would produce significant contributions or at least provocative viewpoints. His broad scientific interests in chemical engineering was recognised in the US by awards which are rarely given to Europeans: The Alpha Chi Sigma Award in 1992, the nomination to the Academy of Engineering in 1994. In Italy, he was long a member of the Naples Academy of Science, Letters and

Arts, and in 1995 he received the gold medal for excellence in research by the Federation of Chemical Industries. For his 60th birthday, the magazine Chem.Eng.Sci. published a special issue in his honour.

His interest in the topic of this meeting, i.e., in non-Newtonian fluid mechanics also dates far back. It arose because of discussions with his friend and colleague Art Metzner, and it consolidated through his readings of the works of Noll, Truesdell, Coleman. He would eventually become a personal friend of Truesdell. I was involved myself in this emerging discipline, and I had the honour, and pleasure, of co-authoring with him one of the first books on non-Newtonian fluid mechanics, published by McGraw Hill in 1974, translated into Russian a few years later.

Intrigued by other subjects, his passion towards rheological matters was not constantly maintained at that initial level, it came and went in the following years. Yet, there were some very significant contributions. I may recall a 1979 paper on objective criteria for flow classification, various papers throughout the eighties on mass transfer in polymers in which the rheological background was also important, a couple of papers on the yield stress in 1990 and 1992, up to his recent interest in the flow of granular materials. On this last topic, particularly on some aspects linked to compressibility of these materials, he would have addressed us here. He cannot do that, but his contribution, already sent to Ken with proverbial punctuality, will appear in the proceedings of this conference.

We miss Gianni Astarita. We also miss his charm when, at conferences, particularly at conference dinners, he would tell momentous jokes. He will be long remembered. I invite you to honour his memory by standing up in silence for a moment".

CONFERENCE REPORT

Second International Conference on the Dynamics of Polymeric Liquids, Capri, May 7th to 10th, 1997

Naples and Capri have been the setting for a number of memorable rheological conferences and this event was no exception. The organizers, Pino Marrucci and Ken Walters, are to be congratulated.

There were fourteen countries represented by fifty rheologists at the meeting, which listed as its sponsors the European Community, the University of Wales Institute of non-Newtonian Fluid Mechanics and the University of Naples. The newly formed European Society of Rheology was well represented by its President, Secretary and Immediate Past President, and the title "Eurorheo 1" appears on the book of abstracts. Your reporter's view of the occasion is rather as a "Eurorheo coming of age". We have four European Rheology Conferences behind us; a sequence which was launched in Naples at a meeting of delegates during the 1980 International Congress. Indeed there have been many smaller European meetings over the years before and since 1980, and the word "Eurorheo" was seen on the streets of Prague in 1986.

These historical reflections have some relevance to an account of a meeting whose participants' ages spanned some four decades. More than one of those for whom "fading memory" has become more than a rheological term were heard to express pleasure at the number of young rheologists who were contributing significantly to the scientific value of the meeting. Of course that meant more unfamiliar faces for us as well as for the youngsters, a drawback that the friendly and relaxed atmosphere of the meeting did much to mitigate. There was, however, a sense of lack of awareness of rheological history (both institutional and scientific) among participants of all ages. This is, however, supposed to be an account of a scientific meeting and I can hear a familiar voice saying "get to the point, Petrie". Perhaps I can mollify the chairman with a quiet commercial break in which I express the view that the forthcoming "Rheology: An Historical Perspective" from Elsevier should become required reading. Here we offer some personal (and unashamedly biased) samples of what was said.

The scientific programme started with an invited lecture by Sir Sam Edwards who implied that we had an easy life when he told us that many complications in polymers do not affect the liquid state. He then took us on a tour of ideas on how relatively simple models can give insight into general behaviour. The picture of a heap of dinner plates as the simplest model of a granular material will stay with many of us even though Sir Sam did not give a practical demonstration then or at the Conference banquet. The key idea of irregularity in modelling granular materials was advanced, with the insight (which his audience did not all take on board easily) that a collection of spheres can only have four-point contact unless they are perfect. Even the simpler idea in two dimensions of three-point contact for rough (or fuzzy) circles, where perfect circles can have six nearest neighbours, takes some digesting. It is interesting to reflect on the, perhaps deceptive, simplicity of this presentation and contrast it with the technical detail and sophisticated analysis to which we were treated in many of the 25 oral presentations and 6 posters which followed.

The rheology of dilute polymer solutions continues to be fertile field for research, currently dominated by extensional flow experiments and their interpretation. Modelling of behaviour on a variety of scales, with the use of prefixes like "meso and micro-macro", goes on apace and much discussion centres on FENE dumbbell models. Ron Larson reviewed many of the issues in dilute solution rheology and the light which use of DNA molecules can shed on them. Eric Shaqfeh gave results from Brownian dynamics simulations of uniaxial stretching and reported effects not seen with FENE-P models. He also announced the death-knell of the stress-optical law and introduced us to the FENE-PM (M for multimode) dumbbell model. This was also used by Gareth McKinley who stated that the higher modes were important only in transient elongation and not in steady flow. Roland Keunings offered a new closure approximation for the FENE dumbbell model, arrived at by use of a canonical distribution function. The name proposed is the FENE-L model, after his co-author, Lielens. John Rallison's tour of ideas on entry flow of FENE (or "funny") models included the fact that surprisingly small values of the FENE parameter were required to get sensible results for the hydrodynamics. This observation seemed to meet general agreement and the various issues around getting better closures were discussed by several authors.

Instability and wall slip are two related themes that preoccupied many authors. Jean-Michel Piau listed 14 mechanisms for instability and reviewed possibilities for reducing its effect on extrudate appearance. Rulande Rutgers reported a careful study of surface instabilities in film extrusion for LLDPE and LDPE/LLDPE blends. Morton Denn discussed wall slip, in the context of sharkskin, and let us puzzle over the absence of gap dependence in the surprisingly linear Bagley plots. John Dealy addressed issues of whether true wall slip was obtained and reported on work with a new high-pressure sliding plate rheometer. Malcolm Mackley introduced us to his new "multi-pass" rheometer which allows measurements on melts such as LDPE with a superimposed high pressure. Instability at high flow rate was observed, consistent with a relaxation oscillation model involving stick-slip and melt compressibility.

There were many papers dealing with the comparison of theoretical or computational predictions and experimental observations (and not a few comparing theoretical predictions with more theoretical predictions). Vincent Legat gave a computational view of the drag correction factor (for flow past a cylinder) – "it's just a number" – and showed how highly dubious assumptions can lead to a program that works. Mike Webster reported on the numerical simulation of a wire-coating process and discussed the computational cost of multimode as opposed to single mode models. Frank Baaijens looked at the modelling of stagnation point flow in the "non-trivial pursuit" of enhanced constitutive equations. A model with stress-dependent relaxation times was considered, the ability to fit shear and extensional flow data more or less independently was reported and the future use of multimode models was planned. Don Baird explored the importance of having both shear and extensional data in order to fit parameters for some models, using data for LDPE and LLDPE melts chosen to be similar in shear.

Gary Leal summarized results for strong flows of entangled polymer solutions and compared birefringence measurements with theory. Characteristic rates for molecular orientation and for molecular stretching were distinguished. Ole Hassager modelled polymer filament stretching and sought to distinguish failure and rupture. He found three kinds of behaviour: self-healing, necking (failure, but not in a finite time) and catastrophic failure (in a finite time). Manfred Wagner looked at predictions for reversing shear flows and use of the molecular stress function to account for chain stretching. Evan Mitsoulis looked at the problem of theoretical underprediction of the Bagley correction. One remark which could be expanded was that experimental reports omit important information (to help in evaluation of theories).

There were a number of papers on more complex materials. Polymeric liquid crystal behaviour was discussed by Gerry Fuller and, in contrasting style, by Alan Windle. Our geometrical imaginations were exercised with ideas of disclination loops escaping into the third dimension. Christian Friedrich used constitutive equations for emulsions to analyse the behaviour of polymer blends and discussed the appearance of a new characteristic time. Kiyohito Koyama reported work on the electrorheological effect in liquid-liquid blends (instead of the more conventional suspensions) finding both positive and negative ER effects. As usual, there were papers that do not fit into simple categories. Hyoung Choi reviewed experimental evidence for polymer migration and looked for theoretical support for various proposed mechanisms. A theoretical contribution from V Pokrovskii set out, from the basis of linear dynamics of macromolecules, to explain the term "mesoscopic". Yongsok Seo measured surface tension in low MW materials using an optical technique involving surface wave propagation.

A more mathematical flavour was found in a few contributions, including a variation on the reptation model from G Ianniruberto, in which a molecule is confined not by a tube but by a regular grid of convected obstacles. Yuriko Renardy demonstrated the richness of possible dynamical behaviour in core-annulus flow of two Maxwell liquids and showed how mathematical and computational analysis can profitably be used together. Michael Renardy reviewed recent mathematical work on high Weissenberg flow where a core of potential flow together with similarity solutions in stress boundary layers are obtained. Han Meijer discussed bread making as a way of understanding mixing and led on to a discussion of elliptic and hyperbolic points in the flow. Issues such as the size of unmixed areas and the amount of line stretching were raised in the context of appropriate measures of the degree of mixing and of how things scale.

The good news for those with long memories is that linear viscoelasticity is by no means dead, and some serious mathematical analysis of the problem of finding the spectrum from measurements of the complex modulus was offered in papers by Russell Davies, Henning Winter and Bob Anderssen. Other papers which reminded me of the 1960s (and maybe others can go further back) included the use of ultrasound to obtain the complex dynamic modulus, as described by Monique Piau, recalling the work of John Lamb's group in Glasgow from the early 1960s, measurement of the ultimate tensile strength of water by Rhodri Williams, looking at the effect of dissolved polymer on the formation of jets caused by cavitation bubble collapse and Jo Maia's version of the Meissner extensional flow apparatus, which has a few ancestors. These comments are in no way intended to belittle efforts to solve problems where earlier generations may have failed, but probably show my own excessive preoccupation with history.

The posters were all from the local (Neapolitan) contingent, which reflects an unnecessary modesty or a sense of what is proper for the hosts. It was a pity that there was not more time to discuss these – but perhaps I merely give a clue about the time I spent exploring the island. There was no sign at the meeting of the rheologists Holmes and Watson (see the *Bulletin of the British Society of Rheology*, vol 34, part 2, pp 47–50 (1991); vol 35, part 3, pp 80–83 (1992); vol 38, part 3, pp 88–96 (1995); vol 40, part 1, pp 15–21 (1997); see also *J. Rheol.*, vol 39, part 4, pp 809–810, (1995)) which may be more significant than the fact that not one of the participants, as far as could be ascertained, was from the polymer (or indeed any) industry.

There was an excellent conference banquet – so much so that the content of the speeches has faded altogether from the memory of your reporter. It is fairly certain that there were speeches and that they were entertaining.

It is impossible to do justice to the papers presented in an account like this, so the above personal selection of highlights (for a variety of reasons) and themes is offered with apologies to those I have misrepresented or (much worse) forgotten. There will be a special issue of the *Journal of Non-Newtonian Fluid Mechanics* devoted to papers from the meeting. This is to be dedicated to the memory of Gianni Astarita whose untimely death, a few days before we came to Capri, had shocked the rheological community world-wide. The participants observed a moment of silence to mark his passing and our hearts go out to his widow, Nerina, and their sons, Tom and Lucco.

Chris Petrie
Newcastle, June 1997

APPENDIX

Exercises for the reader

1. The 2nd DPL conference is less international than the English FA Cup Final (22 players from 10 countries). Discuss.
2. How are the DPL conferences related to the books of the same title?
3. Eurorheo 1 or Eurorheo 21?
4. Did you miss the industrialists?

5. Give an original interpretation of the logo of the new European Society of Rheology.
6. Does the creation of a new society complete with an Immediate Past President shed any light on the question of whether or not Adam had a navel?
7. Discuss the etymology of the English verb "to mitigate".
8. Design a mesoscope.

WORKING PARTY ON INDUSTRIAL RHEOLOGY

Gianni Astarita

Dipartimento di Ingegneria dei Materiali e della Produzione
University of Naples "Federico II"
Piazzale Tecchio, 80125 Napoli, Italy

I have been asked by the European Federation of Chemical Engineering to organize a Working Party on Industrial Rheology (WPIR), and a first meeting of its provisional committee was held in Capri, Italy, in June 1995. In that meeting the following fundamental points concerning the philosophy of the WPIR were established:

The WPIR proposes to act as a clearing house between academics who do research in rheology, and industrial concerns who have real-life problems of a rheological nature. Hence the committee will be formed by one member from academia and one from industry from every country of the EC. Whatever the activities of the WPIR might be in the future, the fundamental aim is to facilitate cooperation between industry and academia in the solution of practical rheological problems as they arise in the reality of industrial activity.

An organizational meeting was held in London in March 1996. During that meeting the officers of the WPIR were nominated:

G. Astarita	(Naples, IT);	Chairman
H. Barnes	(Port Sunlight, UK);	Vice Chairman
L. Choplin	(Nancy, FR);	Meetings Secretary
A. D'Amore	(Naples, IT);	Secretary
R.Ocone	(Nottingham, UK);	Co-Treasurer
P. Shamlou	(London, UK); Co-	Treasurer

The following schedule of events was agreed upon in the London meeting:

One day meetings - approximately 3 every 2 years. These meetings have a few technical presentations, mostly from industry, with ample time for discussion, in addition to the regular Committee meeting. The first one-day meeting was scheduled for September 1996 in Bischoffsheim, France.

Large meetings - approximately every 3-4 years. These will be dedicated exclusively to problems in industrial rheology, with a strong preference for presentations from industry.

At the first one-day meeting, 4 technical contributions from industry were presented (H. Barnes, Unilever, UK; A. Collina, Mapei, IT; B. Ernst, Elf-Atochem, FR; M. van Gurp, DSM Research, NL), each one followed by thorough discussion. Successive one-day meetings are scheduled for May 1997 in Firenze, IT (in conjunction with the 1st European Congress on Chemical Engineering - the meeting will be dedicated to Rheology in Processing), and for February 1998 in Seville, SP, in September 1998, in conjunction with the 5th European Rheology Conference.

The aims of the WPIR are ambitious and difficult ones, particularly because it is often difficult to find out about small and medium-size industries which may have practical problems with a strong rheological content. This communication is meant as a way of disseminating information about the WPIR; anybody interested in more detailed information may contact the secretary at the address below, and will be automatically added to the WPIR mailing list which periodically is reached with information about the ongoing and future activities of the WPIR.

Ing. A. D'Amore,
Secretary, WPIR
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e-mail damore@cds.unina.it

Editor's Note: This report was received from Gianni Astarita in January 1997, before his untimely death.

CONFERENCE ANNOUNCEMENTS

5TH EUROPEAN RHEOLOGY CONFERENCE,

September 6-11, 1998, Portoroz, Slovenia

The 5th European Rheology Conference will be held at the attractive tourist spot **Portoroz** on the Slovenian Adriatic Coast (and not in Ljubljana as indicated in the first announcement). The Convention Center of Bernardin Hotels in Portoroz allows for all participants and accompanying persons to stay at the same hotel complex where the conference will take place. This enables better communication and socializing of the participants also in the "free" time, and this is of substantial importance for scientists willing to share experiences, problems and successes.

The program will follow the widely accepted tradition of rheology conferences to share the most recent developments in research, education and practice of rheology through plenary and keynote lectures, oral and poster presentations. Conference contributions will be selected on the basis of abstracts of up to 500 words (or one page). If you wish to present your paper as a poster, please let us know and write "poster" at the lower right corner of the abstract. Deadline for submission of abstracts is January 15th, 1998. The abstract should consist of:

Title of the contribution

Author(s) name(s)

Affiliation with the mailing address, TEL and FAX numbers, e-mail

500 word abstract

(please use 11pts Times New Roman or similar script).

Abstracts should be sent to and further details may be obtained from:

Prof. Igor Emri

Center for Experimental Mechanics

University of Ljubljana

Cesta na Brdo 49

SI-1125 Ljubljana, Slovenia

Tel: (+386) 61 123 2247

Fax: (+386) 61 123 2471

e-mail: rheo.98@ki.si

<http://www.fs.uni-lj.si/cem/RHEO.html>

**2ND INTERNATIONAL CONFERENCE ON MECHANICS
OF TIME DEPENDENT MATERIALS,
March 1-4, 1998, Pasadena, USA**

On behalf of the International Organizing and Scientific Committee, we cordially invite you to attend the 2nd International Conference on Mechanics of Time Dependent Materials to be held at the Doubletree Hotel in Pasadena, California, USA, March 1-4, 1998.

Following the first meeting in Ljubljana, Slovenia, two and a half years ago, this meeting will again be an outstanding opportunity for an intense exchange of information on recent advances in this subject. To further this objective, several well-known speakers have been invited to deliver plenary lectures:

G.B. McKenna, USA
U.W. Suter, Switzerland
N.W. Tschoegl, USA
M.H. Wagner, Germany

This Conference will bring together scientists and engineers from different fields such as Mechanical Engineering, Aerospace Engineering, Rheology, Design, Materials Science, Chemical Engineering, etc. These fields deal, in one way or another, with any materials possessing time-dependent mechanical properties. The Conference aims at promoting the transfer of knowledge between the various groups that approach essentially the "ssam problem" from different directions.

Papers are sought in the following areas (provided that the contribution addresses the time dependence of a – primarily mechanical – material property):

Materials Testing and Evaluation
Physical Aging
Analytical Methods
Constitutive Equations
Experimental Techniques
Temperature and Pressure Effects
Material Characterization
Rheological Properties
Environmental Interactions
Mathematical Modelling

Numerical Analysis
Linear and Non-Linear Behaviour
Design Methods
Structural Testing
Fatigue and Fracture
Damping
Risk Analysis
Other Related Topics

We expect that you will enjoy both the scientific and the social programs we have prepared for you, and look forward to meeting you in Pasadena in March 1998.

Conference papers will be selected on the basis of extended abstracts of at most two (2) pages including figures. Extended abstracts must be prepared according to the instructions. Abstracts must be postmarked no later than November 1, 1997, and addressed to one of the principle coordinators:

Prof. W.G. Knauss
California Institute of Technology
Pasadena, CA 91125, USA
Tel: (+1-818) 395-4524
Fax: (+1-818) 304-0175
E-mail: WGK@atlantis.caltech.edu
<http://www.solids.caltech.edu/MTDM.html>

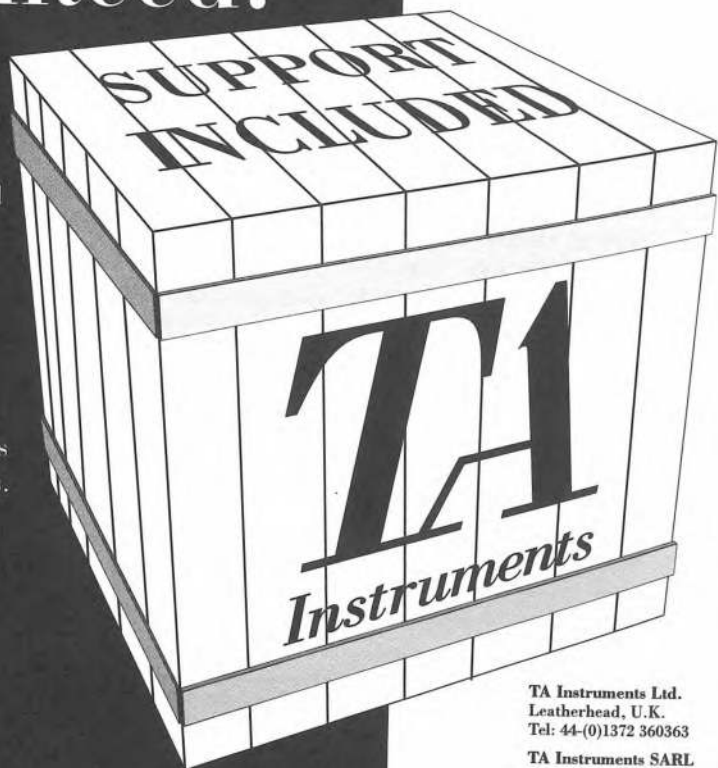
or

Prof. Igor Emri
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EUROPEAN SOCIETY OF RHEOLOGY

SURVEY OF RHEOLOGICAL INTERESTS

The following survey is intended to give the Committee of the ESR a broad picture of rheology in Europe. The information will be used to ensure that the ESR will serve the interests of the membership.

Many of you will already have registered your rheological interests with your national society but these change and with the recent formation of the ESR this is an appropriate time to get an up to date record.

Please use a few minutes of your time to complete the form which has been kept as simple as possible. Once completed the form should be returned to "Professor Jim Ferguson, Department of Pure & Applied Chemistry University of Strathclyde, Glasgow, G1 1XL, U.K."

Name..... Title.....

Business Address.....

.....

.....

Tel..... FAX.....

e-mail.....

1. Of what rheological societies are you a member?

.....

This form may be removed from the Bulletin or photocopied for return

2. Do you work in: (please indicate which)

Industry University Research Inst. Other.....

3. Are your interests: (Please indicate one or more)

Experimental Theoretical Industrial Other.....

4. Main rheological materials (for example polymer melts, suspensions, metals...)

.....
.....
.....

5. Main rheological techniques used (for example capillary rheometers)

.....
.....
.....

6. Other comments: e.g. Other techniques used (use additional page if necessary:

7. Please sign and date the following: "I agree to this information being used and published by the ESR in its documents."

Signature:

Date:

Gearing Scientific

Dear QA Managers and Process Engineers:

1. Are you tired of filling up a hot barrel every few minutes on your capillary rheometer? Wouldn't it be nicer (& safer & more efficient) if this could be done automatically for you, so you just had to load it every 10 barrels full with cold material into a cold hopper? You can still run it at many speeds and with 2 dies for each barrel full! **Ask for a P5.**

2. Do Gardener glass tubes give you a headache with their imprecise lettering system for measuring viscosity after you waited 7 minutes for your resin to cool? You do not wish to go to the expense of a £30k On-Line rheometer (although this could pay for itself in under 2 years*), but wouldn't it be more convenient and faster to be able to measure an accurate viscosity digitally at 80°C (or other T a few °C below the process T)? Then repeat a measurement twice more and have a print-out of the data - all for £5k - £6k? 1% accuracy and reproducibility is achievable & after each test you throw away (or recycle) the glass (or Pyrex**) test tubes which cost 12p each! **Ask for Visco-Noury 150°C!** (to BS188)

3. Are you still using a paper-clip to test reactivity and gel-time of your thermo-set resin or food gel on a hot plate or beaker? For £8k (+ your PC) you can automate this and have both measured for you automatically using a range of cleanable or disposable end fittings which measure right into the solid state! **Demandez Trombomat!**

Gearing Scientific may be able to help you:

44 (0) 1462 742 007 or Fax 44 (0) 1462 742 565. (England)

* P1 OLR has often paid back in <1 year.

** Dearer.

*** Universities may not need to pay V.A.T.!

**2nd INTERNATIONAL WORKSHOP ON ADVANCES IN
EXPERIMENTAL MECHANICS**

September 7-13, 1997, Portoroz, Slovenia

The aim of the Workshop on Advances in Experimental Mechanics is informal exchange of information on ongoing research in the field of experimental mechanics. Participation is limited and organized through the principle organizers:

Prof. Igor Emri, University of Ljubljana, Ljubljana, Slovenia for Europe

Prof. Masahisa Takashi,

Aoyama Gakuin University, Tokyo, Japan for Asia

and

Prof. Arkady Voloshin, Lehigh University, Bethlehem, PA, USA for the Americas.

There will be two lectures per day, i.e. altogether 10 lectures, followed by extensive round table discussion. Participants are encouraged to use the rest of the time for small group meetings on common topics of interest. Lecturers should prepare an abstract and/or copy of overheads (or paper) before the workshop so that proceedings can be prepared for distribution to participants.

For any further information please contact:

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**Arbeitsgruppe Rheologie der
Gesellschaft Österreichischer Chemiker
AUSTRIAN GROUP OF RHEOLOGY**

The Austrian Group of Rheology was founded in 1969 by Prof. Josef Schurz.

Chairman: Prof. Volker Ribitsch
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University Graz/Austria
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A – 8010 Graz
Tel: +43 316 380 5418 or 5410
Fax: +43 316 380 9850
E-mail: volker.ribitsch@funigraz.ac.at

Recent meetings:

Coorganizer of the annual "Alpe-Adria Rheoworkshop", a joint meeting between the Italian, Slovenian and Austrian Groups of Rheology:

1996 in Austria
1997 in Slovenia
1998 in Italy.

Annual advanced and introductory training courses in rheology.

BELGIAN GROUP OF RHEOLOGY (BGR)

The Belgian Group of Rheology (BGR) was founded in 1974 to bring together scientists interested in various aspects of rheology. It has expanded over the years and currently has about 60 members who belong both to academia and industry. The BGR organises annual national meetings and informs its members about the activities in the field of rheology through a few newsletters each year. In 1992, the BGR hosted the 11th International Congress on Rheology in Brussels.

Executive Officers

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Recent Meetings:

1995: Relation Microstructure–rheology for Complex Materials – Combined with the Dutch Society of Rheology, Eindhoven (NL)

1996: Recent Developments in Polymer Rheology, Elongational and Industrial Aspects, Brussels

Future Activities:

From September 8–12, 1997 the BGR organises, in cooperation with the European Society of Rheology, a short course on "Rheological Measurements" in the framework of the "European School of Rheology".

The annual meeting of the BGR will be held during the fall.

THE BRITISH SOCIETY OF RHEOLOGY (BSR)

The Society was founded as an informal British Rheologists' Club in 1940 and has as its objects the promotion of science and dissemination of knowledge in the areas of pure and applied rheology. It has expanded greatly since then and now has over 620 members, of whom about a third are outside the U.K. and distributed widely throughout the world. For example, there are over 100 members in Continental Europe. However, it still strives to preserve the informal Club atmosphere. All offices of the Society are honorary appointments and an elected Council is the governing body. Members are drawn both from academic life and from a wide range of industrial activities. They come from many scientific disciplines including biology, biochemistry, chemistry, computer science, engineering, materials science, mathematics, medicine and physics.

The Society is non-profit making and is registered as a charity.

Publications and Other Information Services

The Society publishes a quarterly Bulletin which contains reports on conferences and other Society activities, review articles on rheological topics, information on future meetings and general notes and news. It also publishes the quarterly Rheology Abstracts which contains abstracts of most of the published papers and other literature likely to be of interest to practising rheologists in all fields. In a typical year in excess of a thousand abstracts, culled from around a hundred journals, are published. Members of the Society receive both these Journals free of charge.

The Society is one of the participating bodies of the journal *Rheologica Acta* and proceedings of several international and national conferences have been published in the journal. It is also a founder member of the European Society of Rheology.

The Society administers the Scott Blair collection of books and papers on rheology, which is housed at the University of Wales, Aberystwyth, and is developing this into an up-to-date library of rheological literature available to all members.

Conferences

The Society continues to organise conferences at which original papers are presented and discussed with the minimum of formality. The proceedings of certain conferences are published. Some of these meetings are held jointly with other learned societies. Topics covered recently include polymer melts, numerical simulation, suspensions, composite materials, polymer lattices, cement and concrete, food, biological materials, lubrication, engineering rheology, entrance and exit effects, experimental rheology and stretching flows. Members benefit from reduced registration fees at these meetings.

The Society participates in meetings of European rheologists, and, in addition, is represented on the International Committee on Rheology which sponsors International Congresses held every four years. The International Congress on Rheology in the year 2000, "Rheology 2000", will be organized by the BSR on behalf of the ESR in Cambridge, England.

Promotion of Rheology

The Society awards a Gold Medal every few years in recognition of outstanding contributions to rheology and has also established an Annual Award. This has been made to younger scientists in recognition of their work as well as to rheologists who have made a significant contribution to the life of the Society. To encourage younger rheologists, the Society funds the Scott Blair Memorial Scholarship and administers the Scott Blair Biorheology Scholarship which is funded by Elsevier Science. It also makes travel grants in support of the expenses incurred by students in their attendance at conferences and courses.

Membership

Membership is open to anyone concerned with rheology. You should apply by contacting the membership secretary for an application form. There is an entrance fee of £1 and the present annual subscription is £15 per annum. Subsequent annual fees are reduced to £10 if paid by Banker's standing order or by credit card (Visa or Mastercard only). The subscription is due, in advance, on October 1st each year. Bona fide students pay no entrance fee.

Odborná skupina reologie pri České společnosti chemické CZECH GROUP OF RHEOLOGY

The Czech Group of Rheology was founded on May 24, 1968, at the Institute of Chemical Process Fundamentals of the Czechoslovak Academy of Sciences. Among the 21 founding fathers present on this day were enthusiasts from the following institutions: Institute of Chemical Process Fundamentals mentioned above, chair of Physics of the University of Chemical Technology, Rubber Enterprise in Kralupy n. Vltavou, chair of General Physics of the Charles University, Department of Chemical and Process Equipment Design on the Faculty of Mechanical Engineering of the Czech Technicalal University in Prague, Institute of Hydrodynamics of t Czechoslovak Academy of Science, Plastimat Plastics Production Enterprise in Liberec, Research Institute of Paint and Varnish Substances.

The first chairman of the group was Professor J.J. Ulbrecht. In 1970, the Czech Group of Rheology became a member of the International Committee on Rheology. Since that time, almost every four years national conferences dealing with theoretical as well as applied rheology were held.

In 1986, the Czech Group of Rheology together with the Institute of Hydrodynamics of the Academy of Science organized the 2nd European Rheology Conference in Prague. In March 1997, a joint conference of the German Society of Rheology (DRG) and of the Czech Group of Rheology was held in Chemnitz, FRG.

At present, the Czech Group of Rheology has about 50 members.

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Future meetings:

A microsposium on engineering rheology will be held in the general frame of the 13th International Congress of Chemical Engineering, Prague, August 23th–28th, 1997. For more detailed information contact: chisa@icpf.cas.cz.

Logo:

DEUTSCHE RHEOLOGISCHE GESELLSCHAFT (DRG) e.V.
GERMAN SOCIETY OF RHEOLOGY

<http://www.bam.de/partner/drg/drg.html>

The "Deutsche Rheologische Gesellschaft (DRG)" was founded on October 5th, 1951, in Berlin. The first President was Prof. L. Ubbelohde, later followed by Prof. M. Pfender, Prof. G.W. Becker, and Prof. H. Giesekus. The DRG incorporates also the traditions of the "Deutsche Rheologen-Vereinigung" (merged in 1975), and of the "Arbeitsgruppe Rheologie in der Physikalischen Gesellschaft" of the former DDR (merged in 1991).

The 3rd International Congress on Rheology (organized by Dr. Meskat and Dr. Giesekus, Bayer AG) was held at Bad Oeynhausen, Germany, in 1958, and is still well remembered by seasoned rheologists. On the initiative of Prof. Kirschke (then Secretary of the DRG) and Prof. Schurz from the Austrian Group of Rheology, the First European Rheology Conference was organized in Graz/Austria in 1982.

The DRG has presently ca. 240 members.

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Recent and future meetings:

The DRG organizes biannual meetings on General Rheology (Rheologentagung), positioned between International or European Rheology Congresses. In 1995, the Rheologentagung was held in Berlin as a joint meeting of the German, Austrian, and Swiss Rheology Groups, and attracted more than 150 participants. The same number of participants came to the Rheologentagung 1997 in Chemnitz, which was organized in conjunction with the Czech Rheology Group. On the invitation of the French Group of Rheology (GFR), the DRG participated at the 31st Annual Meeting of the GFR in Metz, 1996.

The next biannual meeting of the DRG is scheduled for March 1999 in Leipzig, and will be organized jointly by the DRG and the polymer physics group of the German Society of Physics (DPG).

Honours:

Prof. L. Prandtl became the first Honorary Member of the DRG in 1952. In 1995, Prof. K. Kirschke, who served as Secretary and Treasurer of the DRG from 1959 to 1991, received the Honorary Membership of the DDRG for his devoted services to the society.

Travel grants are awarded to students to support their participation at the meetings of the DRG.

Logo:

Nederlandse Reologische Vereniging (NRV) DUTCH RHEOLOGICAL SOCIETY

Founded 22-June 1951, preceded by the Committee on Viscosity of the Academy of Sciences at Amsterdam, founded in 1932.

Goal:

Promotion of Rheology as a Science and Application Area via the organisation of biannual meetings on different rheological topics of interest, via publication of newsletters, organisation of courses, publishing of lecture notes and by giving lectures. The NRV is part of ESR, the European Society of Rheology and of the ICR, the International Committee on Rheology.

Topics:

Examples of topics dealt with can be found in the subjects of the most recent biannual meetings:

1. Simulations in Rheology (Delft, TUD, 23 April 1997)
2. Rheology of Blends (Geleen, DSM Research, 23 October 1996)
3. Rheology of Colloidal Solutions (Enschede, UT, 24 April 1996)
4. Solid State Rheology (Arnhem, Akzo-Nobel, 20 October 1995)
5. Relation Microstructure-Rheology for Complex Materials (Eindhoven, TUE, 16 May 1995, combined meeting with BGR, the Belgian Society of Rheology)
6. Theoretical Rheology (Cambridge, 19 October 1993, combined meeting with the BSR, the British Society of Rheology)
7. Rheology and Processing: Prediction of Product Properties (Rhenen, 18 May 1993)

Other meeting topics: Polymeric Melts and Solutions, Numerical Simulations, Suspensions and Emulsions, Composite Materials: Cement and Concrete, Food Applications, Biological Materials, Tribology, Experimental Rheology and Elongational Flows.

Present strategy:

The NRV is a non-profit organisation. The present board strives to increase the membership and presence at the biannual meetings by offering low prices for both membership (Dfl 15,- per year) and meetings, especially for students (Dfl 10,- per meeting). The Society currently has about 120 members.

Medals:

The NRV honours every 5 year a person with special merits in the area of rheology. The first golden medal was presented to Ir. Wigle Overdiep, on 25 October 1995, in honour of his great contributions as secretary and treasurer to the board of the NRV during two decades.

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GROUPE FRANCAIS DE RHÉOLOGIE (GFR) FRENCH GROUP OF RHEOLOGY

A National Commission for Rheology was created at the Centre National de la Recherche Scientifique (CNRS) in 1953. Its first task was to found the "Groupe Français d'Études de Rhéologie", issued at the end of 1955, sponsored by the CNRS. This commission initiated the constitution of the "Groupe Français de Rhéologie (GFR)", as an autonomous association whose status was published in the Journal Officiel on July 30th, 1963. The first President Prof. Jean Mandel, who was elected in 1964, had actively participated in the creation of the GFR and in its development.

The GFR has presently (May 1997) 259 individual members and 57 legal entities belonging both to academic and industrial laboratories.

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Recent and future meetings:

- 30th Annual Meeting of the GFR (Joint Meeting with the British Society of Rheology) BORDEAUX, 1995, "Recent Developments in Rheology".
- 31st Annual Meeting of the GFR (Joint Meeting with the German Society of Rheology) Metz, 1996, "Rheology and Structure"
- 32nd Annual Meeting of the GFR, (Joint Meeting with the Dutch Group of Rheology) NANTES, 1997, "Rheology for the food, cosmetics and pharmaceutical industries"
- 1st Young Rheologists Days, AUTRANS, 1996

Publications:

- Les Cahiers de Rhéologie, (3 or 4 issues per year, including the proceedings of the annual meetings of the GFR), publish original papers, submitted to referees, written in French or English
- Rheology dictionary in four languages (French, English, German, Spanish)
- Bulletin GFR, 3 issues per year
- GFR members address and telephone directory

Medals, honours:

An annual PRIZE of the GFR in association with a private company involved in rheology, has been founded in 1993 and rewards those who have promoted the development of rheology in France by their theoretical, experimental or applied contributions.

Annual GRANTS of the GFR are awarded to students who have prepared their doctorates in France, in order to support their participation in a national or international meeting, where they present their work.

The GFR elects distinguished scientists as honour members of the group.

ΕΛΛΗΝΙΚΟΣ ΣΥΛΛΟΓΟΣ ΡΕΟΛΟΓΙΑΣ
HELLENIC SOCIETY OF RHEOLOGY (HSR)

The Hellenic Society of Rheology (HSR) was officially founded in Athens, Greece, on June 14th 1996 by the Greek judicial authorities having the necessary core of the first 20 founding members. Thus came into fruition the original attempts by the late Professor Tasos Papanastasiou to organize the Greek Rheological community and the many scientists and engineers who practice rheology in their professional careers.

The establishment of HSR was followed by the 1st meeting of the Society in Nicosia, Cyprus in July 1996, where the executive was elected and the constitution was ratified.

The Executive consists of the following officers:

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Dr. Ulysses Cartalos, CHAM Ltd., London

Prof. Savvas Hatzikiriakos, University of British Columbia, Vancouver

Recent and future meetings:

The 1st Scientific Meeting of the Society was the organization of an International Symposium on Rheology and Computational Fluid mechanics held in July 1-4, 1996 in Nicosia, Cyprus. This Symposium was dedicated to the memory of the distinguished rheologist Prof. Tasos Papanastasiou.

The next conference where Greek rheologists will participate is the 1st National Scientific Conference of Chemical Engineering, to be held in May 25-28 in Patras, Greece. Another meeting is scheduled for November 20-21, 1997 within the 4th Panhellenic Congress on Polymers to be held in Patras, Greece.

Publications:

The Proceedings from the International Symposium on Rheology and Computational Fluid Mechanics have been edited by Prof. G. Georgiou and published in a volume by Response Advertising Agency, Nicosia, Cyprus (1996). Refereed versions of some papers have been published in a special volume of *Rheologica Acta* dedicated to the memory of Prof. Tasos Papanastasiou (Vol. 35, 6, Nov.-Dec. 1996) featuring a guest editorial by Prof. Evan Mitsoulis on Papanastasiou's contributions to Rheology and Computational Fluid Mechanics.

Logo:



NORDIC RHEOLOGY SOCIETY (NRS)

<http://www.sik.se/nrs>

The Swedish Society of Rheology (SR) was founded in 1956 at the Royal Institute of Technology, Stockholm, by Dr. E. Forslind, Dr. F. Odqvist and Dr. J. Kubát. The SR organized the VIIth International Congress on Rheology at Gothenburg in 1976. As many members of the SR came from other nordic countries, and with the aim to reactivate the society, the name was changed to Nordic Rheology Society at a meeting in Trondheim in 1992. Prof. O. Kramer became the first president of the NRS. The official language of the NRS is English.

The Nordic Rheology Society has currently ca. 200 members. Membership fee for 1997 is Skr 250.

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Meetings:

NRS arranges one meeting per year in conjunction with its annual Business Meeting. NRS has a home page with the latest information about meetings etc. (see www above).

Next meeting is the Nordic Rheology Conference and Annual Business Meeting in Reykjavik, 6-9 August, 1997, Island. The majority of the presentations are within the fields of rheology of cement based materials and suspensions, and food rheology. There will also be many contributions on other rheological topics.

A course on Rheology with Prof. Ken Walters will be arranged in Trondheim, Norway. Date: September 1997. Information from Fridtjov Irgens, Institutt for mekanikk, termo- og fluidmekanikk, NTNU, N-7034 Trondheim, Fax +47 73 59 3491, E-mail firdgens@varme.unit.no

Awards:

NRS may present two awards per year, the Rheology Award and the Junior Rheology Award, and all members of the NRS are encouraged to propose nominees to the NRS secretary. The Rheology Award and the Junior Rheology Award are given to persons active in the Nordic countries, who made outstanding contributions to the progress of rheology or its applications. The Rheology Awards have been given to Prof. Leif Bohlin and to Prof. Ole Hassager.

Letter from the President of the Nordic Society to his Members

1996 has been an active year for the Nordic Society of Rheology (NRS). We have continued our tradition to have an annual conference. This year the annual conference took place in Stavanger. As usual the conference included two parts. One part was the general rheology part which contained any topics related to rheology. A special occupied the second part of the conference. The special topic this year was "Industrial Rheology". We started to issue Annual Transactions at the annual conference in Gothenburg in 1993. The editing of the Annual Transactions this year was properly taken care of by Søren Hvidt from Roskilde University Centre. Before, only delegates attending the conferences received the Annual Transactions. A new item for this year is that all members of the NRS will receive the Annual Transactions.

A new board of the NRS has been elected for the next four years. On behalf of the new board I would like to thank the retiring board members for their effort and contributions to the NRS throughout the last four years. Furthermore, I would like to thank Professor Ole Kramer for his efforts as President of the NRS during the last period.

The board of the NRS has had its autumn meeting in Reykjavik which is also the site for next year's Nordic Rheology Conference. As has been the case in the preceding conferences, the aim of the conference is to be a bridge between university research and industrial applications. More information about the conference is given elsewhere.

During the 1996 annual meeting it was decided that the board should handle all topics regarding membership of the European Rheology Society. In the board meeting in Reykjavik we decided to join the European Society of Rheology but without committing ourselves to any financial obligations regarding the European Society of Rheology. There is at present no information of the costs involved in the formation of the European Society of Rheology. A final decision of our membership in the European Society of Rheology has to be postponed to 1997.

Arild Saasen
President of the Nordic Rheology Society
December 19th, 1996

Letter from the President of the Nordic Society to his Members

The Board of the NRS would like to present the NRS summer newsletter. In this newsletter there are a few important items that we would like to specially draw the attention to. The first item is of course the Annual Conference which is to be held in Reykjavik on Iceland during August 6-9. The majority of the presentations are within the fields of rheology of cement based materials and suspensions, and food rheology. There will also be many contributions on other rheological topics.

The question on how the NRS best should serve the needs of different types of industry has always been discussed within the society. One of the objectives of the NRS is to be a link between the universities and research institutes on one side and the industry on the other side. The goal is that both academia and industry should benefit from the other: The R&D groups should be aware of the industrial challenges and the industrial rheologists should gain knowledge about the improved possibilities a proper treatment of rheology should have on industry production. So far we have not fully succeeded. However, during the past month members of the NRS who come from industry, have formed a committee working on a proposal on how to serve the industry in an applicable way. This group will present their first proposal at the Annual Business Meeting in Reykjavik.

The board of the NRS has not received any nominations from the Rheology Award or the Junior Rheology Award this year. However it is not yet too late to act. Please send your nominations as soon as possible to the Award committee. We would very much like to see an award presented in Reykjavik.

Our treasurer of the NRS has had to resign his function. Therefore we are in a process of nominating a new treasurer. Hopefully the new treasurer will be elected during the coming annual meeting. Please note also that Carl Klason is now acting as the Vice President of the NRS.

I would also like to draw your attention to the internet home page of NRS. You can find it at the following address: www.sik.se/nrs.

I hope to see you in Reykjavik. In between, enjoy your summer holidays and the Nordic summer.

Arild Saasen

President of the Nordic Rheology Society, June 6th, 1997

GRUPO ESPAÑOL DE RHEOLOGÍA (GER) SPANISH GROUP OF RHEOLOGY

The Spanish Group of Rheology (GER) was founded in 1982 as a Specialized Interdisciplinary Group inside both the "Real Sociedad Española de Química R.S.E.Q." (Spanish Royal Society of Chemistry) and the "Real Sociedad Española de Física, R.S.E.F." (Spanish Royal Society of Physics). The founder of the GER, Professor José Alemán, was elected President during the first Annual General Meeting, held in the "Instituto de Ciencia y Tecnología de Polímeros" (Madrid, April 1983).

Among the most important contributions of the GER could be mentioned the normalization of the rheological nomenclature in Spanish (UNE 53-418-87) and the organization of the 4th European Rheology Conference, which was held in Seville (September 1994).

At present the GER consists of around 75 members and a number of industrial partnerships.

Officers and contact persons:

Officers:

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Vice-President	Dr. Pedro Antonio Santamaría
Vice-President	Dr. Marc Barracó
Secretary	Dr. Antonio Guerrero
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Recent and future meetings:

Annual General Meeting – June 1997 – Instituto de Ciencias y Tecnología de Polímeros (Madrid)

Jornadas Franco-Ibéricas de Reología (Journées Franco-Iberiques de Rhéologie), June 1998, San Sebastián Universidad País Vasco (Spain); for details contact:

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Publications:

- Boletín de Reología (Spanish Rheology Newsletter; 1-2 issues per year)
- Participating group in the following Spanish journals:
 Anales de Química International Edition, R.S.E.Q.
 (6 issues per year)
 Anales de Física, R.S.E.F. (3 issues per year)
 Revista Española de Física (4 issues per year).

Other activities:

- "GER Medal" – to be firstly bestowed at the 1998 Annual General Meeting.
- Specialized courses (one per year on average).
- The Spanish Group of Rheology is also represented in the Working Party of Industrial Rheology of the European Federation of Chemical Engineering.

FACHGRUPPE RHEOLOGIE DER POLYMERGRUPPE DER SCHWEIZ SWISS GROUP OF RHEOLOGY

The Swiss Group of Rheology is a special topics group of the Polymer Group of Switzerland and was formed in March 1993. Its main goal is to promote research and teaching of rheology and its practical application, to bring together those interested in rheology and its application, and to cultivate contacts with national and international organizations. The Polymer Group of Switzerland is responsible for the control of finances. The Swiss Group of Rheology has currently 72 members.

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Meetings:

The group has organized an annual spring meeting (including general assembly), and a fall meeting in 1993, 1994, and 1995.

The 1st International Symposium on Food Rheology and Structure, Zürich, March 16-21, 1997 was supported by the Swiss Group of Rheology.

A joint meeting with the Polymer Group of Switzerland is planned for 1998.

For 1999, a workshop on "Nonequilibrium Thermodynamics and Rheology" has been suggested.

Publications: Newsletter

Реологическое Общество им. Г.В.Виноградова

VINOGRADOV SOCIETY OF RHEOLOGY

The first USSR Symposium on Rheology was held in Moscow in 1964. Prof. G.V. Vinogradov was the organizer, chairman and the most active participant of the first and subsequent 15 All-Union Symposiums. The Society of Rheology of the USSR was created in 1989, it became a member of the International Rheological Committee in 1990. After the collapse of the USSR and with the intention to save our Community, the Society was renamed to "Vinogradov Society of Rheology" in 1992, and comprises the countries of the former USSR.

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the same address
tel. +7 (095)955-4388.

Recent and future meetings:

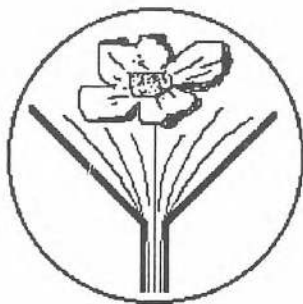
Three Symposiums: 1992 (Dnepropetrovsk, Ukraine), 1994 (Saratov, Russia), 1996 (Karacharovo, Russia); two rheology schools: 1993 (Nizhny Novgorod, Russia), 1995 (Kazan', Russia); and one Discussion Conference: 1993 (Klaipeda, Lithuania). The Seminar of Society is working permanently (meeting 4–5 times a year).

The next Symposiums are planned for 1998 (Klaipeda, Lithuania) and 2000 (Moscow). The last one will be dedicated to the 90th anniversary of Vinogradov's birthday.

Honours:

Last year we installed the annual Vinogradov Prize (diploma and purse). In 1995, the Vinogradov Prize was awarded to Prof. Yu. Deinega (Kiev, Ukraine) and Prof. A. Malkin (Moscow); in 1996 to Prof. Z. Shul'man (Minsk, Belorussia) and PhD student A. Tereshin (Moscow).

Logo:

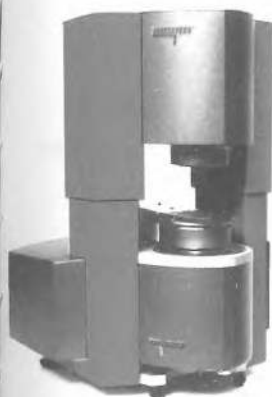




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CONFERENCE DIARY

DATE	PLACE	DETAILS
27-31/7/1997	Melbourne, Australia	'Second Pacific Rim Conference on Rheology' Conference Organiser: David V. Boger, Univ of Melbourne. Conference Secretary: Leong Yeow, Univ of Melbourne. Technical Programme: Carlos Tiu, Monash University. Local Arrangements: Sati Bhattacharya, RMIT. Contact: Christine Collis, Dept of Chemical Engineering, The University of Melbourne, Parkville, Victoria 3052, Australia. Tel: 61 3 9344 7440 Fax: 61 3 9344 4153 E-mail: prcr2@unimelb.edu.au
6-9/8/1997	Reykjavik Iceland	'Nordic Rheology Conference 97' with special sessions on Rheology of Particle Suspensions & Cement Based Materials Contact: Olafur Wallevik, IBRI, 112 Keldnaholt, Iceland Tel: +354 567 6000 Fax: +354 567 8811 Web site: http://www.sik.se/nrs/
19-21/8/1997	Gothenburg Sweden	'The Polymer Processing Society' Europe/Africa Region Meeting, Conference of Polymer Processing. Organized by: Chalmers University of Technology, Conference Secretary: Dr Johan Becker, Department of Polymeric Materials, Chalmers University of Technology, S-412 96 Gothenburg, Sweden Tel: +46 31-772 1316 Fax: +46 31-772 1313 E-mail: jbecker@polymm.chalmers.se
7-13/9/1997	Portoroz, Slovenia	'2nd International Workshop on Advances in Experimental Mechanics' Contact: Prof. Igor Emri Center for Experimental Mechanics, University of Ljubljana Cesta na Brdo 49 SI-1125 Ljubljana, Slovenia Tel: (+386) 61 123 2247 Fax: (+386) 61 123 2471 e-mail: igor.emri@ki.si http://www.fs.uni-lj.si/cem/RHEO.html
8-10/9/1997	Wrexham, UK.	'Polymers and Surfactants: Association, Segregation, Competition at Interfaces', Royal Society of Chemistry, Faraday Division, Colloid and Interface Science Group. & Society of Chemical Industry, Colloid & Surface Chem. Group. Contact: Prof. P.A. Williams, Centre for Water Soluble Polymers, The North East Wales Institute, Plas Coch, Mold Road, Wrexham, LL11 2AW, UK Tel: +44 (1978) 290666 Fax: +44 (1978) 290008

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Note: A similar course is also organised, for the 22nd time, in the USA,
at the University of Minnesota, August 11-15 (1997)

DATE	PLACE	DETAILS
8-12/9/1997	Bordeaux France	'1st World Tribology Congress' Contact: J. Brown, World Tribology Congress (C491), Inst. of Mechanical Engineers, 1 Birdcage Walk, London, SW1H 9JJ, UK. Fax: +44 171 222 9881
23-26/9/1997	Bordeaux France	'2nd World Congress "Emulsion" Contact: Comité Mondial de l' Emulsion, 50 place Marcel Pagnol, 92100 Boulogne-Billancourt, France Tel: +33 1 4761 7689 Fax: +33 1 4761 7465
15/10/1997 7 pm near Bristol, UK		A Talk on "Going with the Flow" organised by The Society of Cosmetic Scientists, with a free Buffet. Compass Inn, Just off Junction 18 of M4 Contact: Ken Jones, Tel: 01277 630063
19-23/10/1997	Columbus, OH, USA	'69th Annual Meeting of the Society of Rheology.'
23/10/1997	Swansea, Wales	'BSR AGM & BSR/INNFM Lecture' The Application of Rheology in Industry, Dr H.M. Laun, BASF Contact: Dr M.F. Webster, Dept of Computer Science, University of Wales, Singleton Park, Swansea, West Glamorgan Tel: 0179-229-5656 Fax: 0179-229-56708
28-30/10/1997	Nantes, France	'Rheology of Materials for Food, Cosmetic and Pharmaceutical Industries' Contact: Secretariat of the 32nd Annual meeting of the GFR, INRA, rue de la Géraudière, BP 71627, 44316 Nantes, France. Fax: +33 2 4067 5043
24-25/11/1997	Malmö Sweden	'The Rheology of Industrial Coatings Systems' Contact: Calmia AB, Box 2161, S-220 02 Lund, Sweden Fax: +46 46 211 0020
1-4/3/1998	Pasadena California, USA	'2nd International Conference on Mechanics of Time Dependent Materials' The Society for Experimental Mechanics and The Society of Plastics Engineers Contact: Prof W.G. Knauss, California Institute of Technology, Pasadena, CA 91125, USA Tel: (+1-818) 395-4524 Fax: (+1-818) 304-0175 E-mail: WGK@atlantis.caltech.edu http://www.solids.caltech.edu/MTDM.html or Mateja Bourke, Secretary, SEM - European office Cesta na Brdo 49, SI-1125 Ljubljana, Slovenia Tel: (+386) 61 123 2247 Fax: (+386) 61 123 2471 E-mail: mateja.bourke@ki.si http://www.fs.uni-lj.si/cem/MTDM.html

DATE	PLACE	DETAILS
7-9/7/1998	Brighton UK	'World Congress on Particle Technology 3' Contact: Miss Jennie Black, Conference Section, IChemE, 165-189 Railway Terrace, Rugby, CV21 3HQ, UK Tel: +44 (0) 1788 578214 Fax: +44 (0) 1788 577182 E-mail: jblack@icheme.org.uk
6-11/9/1998	Portoroz Slovenia	'5th European Rheology Conference' Contact for Scientific Information: Prof. Igor Emri, Center for Experimental Mechanics, University of Ljubljana, Cesta na Brdo 49, SI-1125 Ljubljana, Slovenia Tel: (+386) 61 123 2247 FAX: (+386) 61 123 2471 E-mail: Rheo.98@ki.si http://www.fs.uni-lj.si/cem/RHEO.html Contact for General Information: Teja Alic, Cankarjev dom Presernova 10, SI-1000 Ljubljana, Slovenia Tel: (+386) 61 210956 FAX: (+386) 61 217 431 E-mail: cankarjev.dom@k2.net
4-8/10/1998	Monterey, California, USA	'70th Annual Meeting of the Society of Rheology.'
March 1999	Leipzig Germany	'Rheologentagung 1999' Joint meeting of the German Society of Rheology and the Polymer Physics Group of the German Society of Physics
17-21/10/1999	Madison, Wisconsin, USA	'71st Annual Meeting of the Society of Rheology.'
21-26/8/ 2000	Cambridge, UK	'Rheology 2000 - XIIIth International Congress on Rheology' To be organised by the British Society of Rheology with the assistance of the European Society of Rheology. Contact: Chairman of the Executive Committee, Prof. K. Walters FRS., University of Wales, Dept of Mathematics, Penglais, Aberystwyth, Dyfed, SY23 3BZ, Wales, UK. Tel: (+44) 1970 622750 Fax: (+44) 1970 622777

Travel grants are available to help students attend any of these meetings.
Applications to the BSR Secretary supported by a letter from supervisor.

COURSE DIARY

DATE	PLACE	DETAILS
11-15/8/1997	Minneapolis Minnesota, USA	'Rheological Measurements Short Course' Sponsored by Center for Interfacial Engineering and University of Minnesota. Contact: Kathy Walsh, Professional Development and Conference Services, University of Minnesota, 204 Nolte Center, 315 Pillsbury Drive S.E. Minneapolis, MN 55455-0139. USA Tel: (612) 625-5512 Fax: (612) 626-1632 E-mail: kwalsh@mail.cee.umn.sdu Web site: http://www.cems.umn.edu/conferences/rheocourse.html
8-12/9/1997	Leuven Belgium	'European School of Rheology' 'Short Course on Rheological Measurements' Applications to Polymers, Suspensions and Processing. in cooperation with the Belgian Group of Rheology and the European Society of Rheology. Contact: Dr.Ir. Jan Vermant, Dept of Chemical Engineering, de Croylaan 46, B-3001 Heverlee, Belgium. Tel: +32 / 16 / 32 23 55 Fax: +32 / 16 / 32 29 91 E-mail: jan.vermant@cit.kuleuven.ac.be Web site: http://www.cit.kuleuven.ac.be/cit/ltrk/course.html
13-17/10/1997	Hinckley Leicestershire	'School of Industrial Rheology '97 & Back to Basics' Contact: Camtel Ltd., FREEPOST, 5 Carrington House, 37 Upper King Street, Royston, Herts, SG8 9BR Tel: +44 (0) 1763 244280 Fax: +44 (0) 1763 244298 E-mail: camtel_ltd@compuserve.com
3-7/11/1997	Glasgow Scotland	'Process Rheology' Dept of Pure and Applied Chemistry, University of Strathclyde. Contact: Prof J. Ferguson or Dr N.E.Hudson Tel: +44 (0) 141-548-2161 or 2162 Fax: +44 (0) 141-552-5664 E-mail: n.e.hudson@strath.ac.uk

MEMBERSHIP NEWS

The following applications for membership were approved at the Council meeting on June 18th, 1997.

Mr D. Walker,
Morgan Matroc Ltd
Burlesdon Road,
Thornhill,
Southampton,
SO19 7TG
(peta DFGHI)

Mr M.S. Williams,
Morgan Matroc Ltd
Burlesdon Road,
Thornhill,
Southampton,
SO19 7TG
(pea CHI)

Dr A. M. Higgins
Courtaulds plc
101 Lockhurst Lane
Coventry
CV6 5RS
(fetsa DEN)

The following member has resigned: Dr M. Pearson.

With these changes, the membership stands at 624, including 54 honorary members.

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