

# RHEOLOGY BULLETIN

Publication of The Society of Rheology, Inc.

Vol. 44, No. 3



December, 1975

## FUTURE MEETINGS

The 47TH ANNUAL MEETING OF THE SOCIETY OF RHEOLOGY will be held at the Biltmore Hotel in New York City, February 27 through March 2, 1977.

Program committee chairman is C. D. Han of Polytechnic Institute of New York. Local Arrangements Committee Chairman is John C. Miller, Union Carbide Corp., Bound Brook, New Jersey 08805.

The 48th Annual Meeting is scheduled for Madison, Wisconsin, tentatively mid-to-late October 1977.

The Second International Symposium on Polyvinylchloride is scheduled for Lyons, France on July 5-9, 1976.

The editor has just been informed of the recent death of Josef Janacek, President of the Group of Rheology for the Czechoslovak Chemical Society and their delegate to the ICR.

## VIIth INTERNATIONAL CONGRESS ON RHEOLOGY

AUGUST 23-27, 1976  
CHALMERS UNIVERSITY OF TECHNOLOGY  
GOTHENBURG, SWEDEN

### CHARTER FLIGHT AND TOUR ANNOUNCED

A charter flight to Sweden is being sponsored by the Society of Rheology in conjunction with the VIIth International Congress of Rheology to be held in Gothenburg on August 23-27, 1976. The flight will be on Pan Am and will depart from New York on August 21. Return will be from Amsterdam on September 11, 1976 to New York. Exact fare will depend upon the total number of seats sold, but will be \$275.00 if 180 seats are sold. If 120 seats are sold, the price will be \$412.50. If less than 120 seats are sold for the flight, it will be cancelled and deposit monies returned.

Participation is restricted to members of the Society of Rheology as of February 15, 1976 and members of their immediate family in residence with the member.

A deposit of \$50.00 per seat should be sent as soon as possible, but in any case before April 21st, to Dr. J. R. Knox, 1464 Swallow Street, Naperville, Illinois 60540. Final payment of the balance will be due by June 15, 1976. Notice of the exact amount will be sent to each depositor by May 15, 1976. Cancellation charges will be \$25.00 until June 15th and \$50.00 after June 15th. Checks should be made payable to VIIth Congress Flight.

A tour of Scandinavia is being arranged for August

28 - September 10 inclusive. The tour will include Stockholm, Oslo, Fjord country, Aarhus, fairytale country of Denmark, Copenhagen, and Amsterdam. The estimated price is \$688.00 including all transportation, lodging in first class accommodations (double occupancy), continental breakfast, all entrance fees, and guide service for all group activities except the rail trip from Copenhagen to Amsterdam. Single occupancy is available at additional cost. The tour will be in Stockholm from August 30 - September 1 for those wishing to attend the IUPAC Mini-Symposium. Those who wish may join the tour in Stockholm on September 1 at a reduced price. Reservations should be made with Dr. Knox as soon as possible but no later than June 15, 1976. One-half of the cost should be sent by June 15th with the remainder being paid by July 21, 1976. Checks should be made payable to VIIth Congress Tour.

If the charter flight is cancelled, an all-inclusive tour will be arranged from New York at a cost of approximately \$1,100.00.

Additional information on either the charter flight or tour should be requested from Dr. J. R. Knox.

## MINUTES OF THE ANNUAL BUSINESS MEETING 46TH ANNUAL MEETING ST. LOUIS, MISSOURI

The meeting was opened by President R. S. Rivlin who announced the results of the election of officers and members of the Executive Committee (reported elsewhere). He then covered the following additional announcements:

The Winter meeting of the Society is scheduled for January 26-29, 1976 at the Jack Tar Hotel in San Francisco. (*Editor's note:* This meeting was later cancelled due to insufficient papers).

The Society plans to invite the International Committee on Rheology to hold the VIIIth International Congress on Rheology in 1970 in the United States. A specific offer for a meeting site has been received from the University of Tennessee at Knoxville, Tennessee. Other such offers were solicited, with the understanding that other countries may make competing offers to the International Committee and the decision will, of course, be up to the Committee.

A joint meeting with the British Society of Rheology in the Spring of 1978 at Plymouth, England, is being explored and currently appears likely.

The 1977 Fall (48th Annual) Meeting will be held in Madison, Wisconsin, with the date not yet finalized, but most likely in mid-to-late October.



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Raymond R. Myers, Editor  
Department of Chemistry  
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Kent, Ohio 44242

The Treasurer pointed out the current situation of operating expenses exceeding annual income, resulting in reduction of reserves and dictating the necessity for the current proposal to increase dues.

Various aspects of the TRANSACTIONS operations were discussed, including floor discussion of inclusion of advertising.

E. A. Collins solicited suggestions from the members for future short courses.

A vote of thanks was given to both the Local Arrangements and the Program Committee for the 46th Annual Meeting. The meeting was adjourned by President R. S. Rivlin.

### 1975 REPORT OF THE SECRETARY TO THE ANNUAL BUSINESS MEETING ST. LOUIS, MISSOURI

**Officer Elections:** The following members were elected to office in the Society for a period of two years, commencing with the close of the 1975 Annual Business Meeting:

President	J. R. Knox
Vice President	I. M. Krieger
Secretary	R. A. Mendelson
Treasurer	E. A. Collins
Editor	R. R. Myers
At-Large Members	E. A. Kearsley
of Exec. Committee	S. S. Sternstein
Immediate past-President	R. S. Rivlin

**Membership Activities:** Two technical meetings were held by the Society in 1975: the first, jointly sponsored with the Japan Society of Rheology, June 3-6 in Honolulu, Hawaii; the second, the Annual Fall Meeting, October 27-30 at St. Louis, Missouri. 48 papers and lectures were presented at the former and 52 at the second meeting. The only scheduled meeting of the Society in 1976 is the Winter meeting, January 26-29 at San Francisco, California. Editors note: since cancelled.

A short course on "The Mechanics of Polymer Processing and the Effects of Processing Variables on Structure and Performance", was conducted by T. Alfrey, Jr., prior to the St. Louis meeting.

Alan N. Gent was the recipient of the 1975 Bingham Medal.

As a consequence of steadily increasing costs, and a reassessment of the costs of publishing the TRANSACTIONS, in particular, the Executive Committee voted to submit an amendment of the Rules of the Society to the membership by requisite letter ballot to increase the Society dues to \$15. (This letter ballot was mailed

out in November; if the ballot passes, it will go into effect January 1, 1977).

A membership directory was prepared and issued in 1975, listing 886 members.

**Acknowledgments:** The Secretary wishes to thank the Society officers and committee members for their cooperation and aid. Special thanks go to Mrs. Margaret Nightingale of the AIP. He also wishes to acknowledge the aid of Monsanto Company for defraying minor expenses and providing the time and services incident to the performance of the Secretary's duties.

R. A. Mendelson, Secretary

### OTHER NOTES FROM THE EXECUTIVE COMMITTEE

A proposal for a joint meeting with ACS in Honolulu in 1979 will be examined.

It was moved, seconded and passed to pay \$50/year dues in financial support of the Committee of Scientific Society Presidents, of which the SOR President is a member.

The following actions relative to the American Institute of Physics were moved, seconded and passed:

J. R. Knox to succeed R. S. Rivlin as member of the AIP Governing Board.

Acceptance of the American Vacuum Society to full member Society status in AIP.

Approval of proposed amendment to AIP Constitution making the (AIP) Secretary an ex officio member of the Governing Board and Executive Committee.

Approval of proposed amendment to AIP Constitution defining the requirements for admission of new Member Societies and Associate Member Societies to AIP.

It was moved, seconded and passed thanking R. S. Rivlin for his leadership of the Executive Committee.

### REPORT OF THE EDITOR

**PUBLICATION INFORMATION.** Volume 19 has 39 papers comprising at least 650 pages. The first quarterly issue of Volume 20 has ten papers devoted to Dr. F. R. Eirich.

There are 29 papers currently in the hands of the referees. In 1974 we rejected 7 of the 56 manuscripts received. So far in 1975 we have received fewer than 40 manuscripts including the Eirich contributions; we have rejected 8 papers this year. Only 19 of this year's manuscripts have not completed the review cycle. The early manuscripts from 1974 which have not completed the cycle are ones with which we have been having difficulty; they most likely will be withdrawn. Each author of a paper at the St. Louis Meeting has received a personal letter from the editor requesting that he publish in the TRANSACTIONS.

**RENEWAL OF WILEY CONTRACT.** A new three-year contract for publication of the TRANSACTIONS has been negotiated with John Wiley & Sons. Hereafter all authors will receive 50 free reprints regardless of whether they pay page charges.



Limited advertising copy is being considered from other journals, subject to the approval of the Executive Committee.

The Executive Committee agreed to accept good expository papers in specific topics, providing they are of interest to a significant number of Society members. We have invited one such state-of-the-art paper on Polymer Processing for Volume 20, and are eager to hear from members regarding their preferences for other topics or writers.

R. R. Myers  
Editor

## COMMITTEE ON INDUSTRY-UNIVERSITY RELATIONS ANNUAL REPORT

OCTOBER 1975

The Committee members include: J. T. Bergen, Chairman; T. Alfrey, Jr.; R. F. Landel; R. S. Moore, and N. Nakajima. Since financial difficulties precluded the call of a meeting of the committee, its business was conducted by telephone and correspondence.

A seminar on some of the rheological aspects of the industrial process of forming and orienting thin films was organized. A panel of technical practitioners in the field was formed for the purpose of introducing the topic and some specific rheological problems. The panel consists of: R. S. Moore (Chairman) and D. J. Massa of Eastman Kodak; T. Alfrey, Jr. and H. J. Donald of Dow Chemical; and J. N. Craver of Union Carbide Corporation. This presentation is to be recorded and, if

deemed suitable, edited for possible inclusion in the TRANSACTIONS.

Previous Committees have in the past four years formed a catalogue of unsolved problems in rheology in industry. The Monday evening "beer sessions" of informal discussion have brought out useful details on some of these problems that are otherwise inaccessible thru the literature. This type of session is becoming a tradition and we recommend that it be continued.

The Committee has been canvassed for additional problems in industry to be added to the list. None have been forthcoming except those raised in the 1975 Monday evening session. The Committee should continue to seek out such problems and to bring them to the attention of the Society.

In conclusion, I want to call attention to a step taken by our British counterpart, the British Society of Rheology. On September 17-19, 1975, they and the (British) Plastics and Rubber Institute held a conference on "Polymer Rheology and Plastics Processing." A summary of the thirty papers is given in Rheology Abstracts for September 1975. Practically all deal with unsolved rheological problems in industry and the corresponding state of the art. A significant number deal with topics that the beer-session discussions have considered. The good appeal of this conference, sponsored by the BS of R and a group roughly analogous to the Society of Plastics Engineers suggests that consideration might be given to such a conference in the USA. I would expect to discuss this with the Committee and have a recommendation for the Executive Committee in due time.

J. T. Bergen, Chairman

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### Application for Membership in the SOCIETY OF RHEOLOGY

I hereby desire to apply for membership in the SOCIETY OF RHEOLOGY dating from  
January 19.....

Name .....  
(Include Title, e.g., Mr., Dr., Prof., Miss, etc.) Please print.

Mail Address .....

Mail Address .....

Professional Connection .....

Position .....

Chief Interest .....

Highest Academic Degree .....

Date .....

Enclose Remittance of \$10 for Regular Annual Dues or \$100 for Sustaining Annual Dues  
and Mail to:

SOCIETY OF RHEOLOGY  
American Institute of Physics  
335 East 45 Street  
New York, New York 10017



The Executive Committee is attempting to determine the wishes of the members as to the direction the Society should take in the coming years. To this end it will be helpful to have the cooperation of the membership in filling out and returning the attached interest survey form. We would appreciate your making any comments or suggestions that you feel would be helpful to the growth of the Society.

To: J. R. Knox  
1564 Swallow St.  
Naperville, IL 60540

Name: \_\_\_\_\_ Employer: \_\_\_\_\_

Mailing Address: \_\_\_\_\_ Business Address: \_\_\_\_\_

Number of Years Member (Approx.): \_\_\_\_\_

Areas of technical interest: \_\_\_\_\_

Areas Society should be concerned with (technical and public service): \_\_\_\_\_

Areas you would like to assist in (e.g. Program, Public Relations, Membership): \_\_\_\_\_

Comments: \_\_\_\_\_