

RHEOLOGY BULLETIN

Publication of The Society of Rheology, Inc.



Vol. 50, No. 2

July, 1981

53rd ANNUAL MEETING

October 11-15, 1981
Louisville Inn
(Formerly Stoufers Inn)
Louisville, Kentucky

Registration forms and housing information were mailed separately to members June 1, 1981. Write: C. Eugene Miller, Civil Engineering, University of Louisville, Louisville, KY 40208. Fee is \$25 for members.

The program organized by Larry Schmidt and his committee appears as a separate enclosure, along with abstracts of the program.

1981 BINGHAM MEDALIST

Professor James L. White, Dept. of Chemical, Metallurgical and Polymer Engineering, University of Tennessee, has been named the 1981 Bingham Medalist of The Society of Rheology.

There is hardly an area of rheology or polymer processing which has not been touched by Professor White's far-ranging researches. His publications, beginning in the early 1960s while he was still a student at the University of Delaware, include an analysis of die swell and the development of a constitutive equation tractable enough to permit rational treatment of many problems in polymer processing. His subsequent work, both at Uniroyal and the University of Tennessee, has carried him across the full spectrum of polymer materials science, including studies on such diverse materials as filled systems, liquid crystals and semi-crystalline polymers; this breadth has often allowed him to narrow the "communications gap" between polymer physics (or polymer chemistry) on the one hand and the various areas of rheology on the other. Especially in the applied areas, Professor White has always made a special effort to know the work of industrial rheologists and to provide thereby a "window" for making their contributions known more generally. Over the past fifteen years, Professor White has organized scores of seminars and symposia for all of the polymer-related technical societies; in 1977 he received the Humboldt Stiftung Senior Scientist Award of the Institut für Kunststoffverarbeitung.

Professor White has been an assistant editor of the Journal of Rheology since the editorial board was founded in 1968.

SOCIETY OF RHEOLOGY SHORT COURSE

October 10-11, 1981

Concepts of Polymer Processing
by
C. L. Sieglauff and J. M. McKelvey

This course is designed to provide an introduction to the important concepts and practices of polymer processing. It will deal with principles and concepts rather than detailed derivations and calculations. Application of these principles to solving practical problems will also be considered. The course will be offered at the Louisville Inn on October 10-11, 1981, in conjunction with the annual meeting. Information and registration forms can be obtained from Donald Hunston, National Bureau of Standards, Polymer Division, Washington, DC 20234 (301/921-3344).

Course fee of \$100 (\$125 after September 15) includes a complete set of notes.

Minutes of Executive Committee Meeting

The Society of Rheology
Cleveland, Ohio
April 25, 1981

The meeting was called to order by President Bagley at 9:30 a.m. Present were Executive Committee members Bagley, Collins, Gent, Kearsley, Krieger, Myers and Shaw.

The Secretary read the minutes of the last Executive Committee meeting (Williamsburg, February 22, 1981) and these were approved after minor corrections.

The first item of discussion was the status of the upcoming 53rd Annual Meeting to be held in Louisville, Kentucky on October 11-15, 1981. In hand were status reports from E. Miller (Chairman, Local Arrangements Committee) and L. Schmidt (Chairman, Program Committee). Both tasks appeared to be progressing satisfactorily, but some help was requested for raising aid. Also addressed were several points concerning material to be sent to members with the next *Bulletin* (June 1 deadline) and suggestions will be forwarded to the Chairmen by Bagley. Myers will publish a "last call" for papers in this *Bulletin* and specify an abstract size. D. Hunston (Chairman, Education Committee) will arrange directly with Myers the notices and forms for the Short Course.

Treasurer Collins updated the Executive Committee on the financial status of The Society (see minutes for the Annual Business meeting for details). Discussion of efforts to hold down costs centered on fees for legal expenses connected with amending the Certificate of Incorporation. Secretary Shaw reported on his efforts to locate a less expensive lawyer and the Committee expressed approval of a proposal to engage the firm of Brothers, Brothers and Walker to finish the amendment. In this connection, Kearsley related his discussions with AIP concerning legal fees and it was agreed that the inquiry should be continued with AIP concerning these. Specifically, AIP would be asked to set up an advisory station on legal services and/or inform member Societies of the details of AIP's retainer agreement with the firm of Windels, Marz, Davies and Ives. Another suggestion for saving costs was the use of lighter weight paper for printing and charging foreign members a fee should they wish Society announcements to be airmailed. The Executive Committee authorized Editor Myers to investigate the latter and implement if feasible. This could save about \$800 per year.

A final item in the Treasurer's report was the question of a dues increase to counteract the deteriorating financial reserves of The Society. After considerable discussion, a motion was introduced and seconded (Collins/Kearsley) to increase the dues to \$20. Believing this amount to be inadequate, Krieger offered an amendment to change the amount to \$25. The amendment was defeated and the original motion was carried. Secretary Shaw was instructed to distribute the required letter ballot to the Membership.

The question of Sustaining Membership dues was also discussed. It was agreed that methods of increasing benefits for these members must be created and Bagley agreed to open discussions with Membership Committee Chairman C. Sieglauff on this point and encourage the addition of a new member to the Membership Committee to handle relationships with the Sustaining Members.

On the question of the proposed Canadian Division, Kearsley was assigned the task of contacting J. Dealy to obtain the statements required for the July *Bulletin* (see minutes of the Business meeting for details).

President Bagley reported the appointment of F. Eirich as The Society's delegate to the Sakarov conference. He also reported on behalf of the Nominations Committee (R. Porter, Chairman), announcing that a slate was substantially complete.

RHEOLOGY BULLETIN
Raymond R. Myers, Editor
Department of Chemistry
Kent State University
Kent, Ohio 44242

Discussion opened on Site Selection (E. Collins, Chairman) and Evanston, Illinois and the Denver area were selected as the first choice for the 54th and 55th Annual Meetings, respectively.

Activities of the Awards Committee were conveyed by Bagley, who reported that selection of the 1981 Bingham Medalist was well underway. Collins raised the question of the updating of criteria for the Bingham Medal and Bagley will ask the committee to forward a revised set of guidelines. Shaw reported on his investigation of certificates to accompany the Bingham Medal and it was decided that those suggested by Myers were very appropriate and offered the best value. A sum of \$300 was appropriated for the lettering of certificates for all living Bingham Medalists.

President Bagley announced the creation of a new Nomenclature Committee (J. Dealy, Chairman; R. Bird; W. Graessley; and K. Wissbrun). The committee will be asked to focus on nomenclature for extensional and transient flows, to coordinate their efforts with the ICR, and to submit the results of Editor Myers for publication in the *Journal of Rheology*.

Miscellaneous items of business included an announcement that the ICR member societies should submit news items directly to *Physics Today* and N. Tschoegl will transmit this information to them. Also by motion, second and voice vote the "Guidelines for Local Arrangements Chairman" and "Manual for Chairman of the Program Committee" were adopted as official guidelines of The Society. Finally it was announced that pins with The Society logo and pictures from Williamsburg will be available for sale at future meetings.

As a final item of business the Committee discussed attendance by a Society representative at AIP Governing Board and Executive Committee meetings. The best course of action would be the appointment of a representative with a renewable term; suitable candidates were discussed but none selected at this time.

The next meeting of the Executive Committee will be held in Louisville before the opening of the Annual Meeting.

The meeting was adjourned at 3:10 p.m.

Respectfully submitted,
M. T. Shaw, Secretary

ANNOUNCEMENTS

Short Course "Chemistry and Properties of Polymeric Materials" will be held October 2-4, 1981 at the Hyatt Regency Hotel, Montreal, Quebec, Canada.

Contact: 2nd World Congress Secretariat; 151 Slater #906; Ottawa, Ontario, Canada K1P 5H3.

Third National Conference with International Participation on Mechanics and Technology of Composite Materials will be held October 4-6, 1982 in Varna, Bulgaria. Contact: Bulgarian Academy of Sciences; Central Laboratory of Physico-Chemical Mechanics; "Acad. G. Bonchev" st. Bl. IV, IV km.; 1113 Sofia, Bulgaria.

AMERICAN INSTITUTE OF PHYSICS INCORPORATED FOR THE SOCIETY OF RHEOLOGY

Statement of Receipts and Disbursements - Year Ended December 31, 1980

Balance in Account - December 31, 1979*		\$20,289.52
<i>Receipts (January 1 - December 31, 1980)</i>		
Dues Collection - 1979	45	
Dues Collection - 1980	8,223	
Dues Collection - 1981	12,079	\$20,347
Sale of Mailing List		195
Interest Savings Certificate		3,096.48
Page charges Journal of Rheology		3,030
Short Course (Boston)		145
Net receipts Annual Meeting, Boston		3,216.40
		30,029.88
		\$50,319.40
<i>Disbursements (January 1 - December 31, 1980)</i>		
Charge for Dues billing and collection		1,416
Charge for preparation and maintenance		1,641
Financial handling charge - year 1980		225
Member Society Dues - 1980		1,100
Editorial expenses		2,400
Journal of Rheology		12,807
January Bulletin printing & mailing		496
July Bulletin printing		199
Ballot Mailing (Constitutional change)		31
Renewal Billings		533
Membership Directory printing & mailing		1,026
Williamsburg Winter Meeting printing & mailing		566
Certificate of Incorporation printing & mailing		259
Naples Brochure Mailing - Address list		10
Administrative Services	1,800	
Bingham Medal (1979 refund)	(46)	
Bingham Medal 1980	61	
Postage	161	
Mailing to unpaid members	9	
Xerox charges	13	
Membership lists	32	
ICR Mailing	9	
Stuffing & envelopes	77	
Presidential discretionary fund	133.24	
History of SOR (Dr. Marvin)	248	
Charter Amendment & Bankruptcy ICR		
Flight (Lawyer fees)	2,101.12	
SOR lapel pins	318	
Council of Scientific Soc. Presidents dues	50	4,966.36
		27,675.36
Balance in Account - December 31, 1980		\$22,644.04

Edward A. Collins
Treasurer
April 2, 1981

•Adjusted to include 1979 Final Receipts & Disbursement Variance.