

RHEOLOGY BULLETIN

Publication of The Society of Rheology, Inc.

Volume 39, No. 2



August, 1970

41st ANNUAL MEETING THE SOCIETY OF RHEOLOGY, INC.

Princeton, New Jersey
October 26-28, 1970
Nassau Inn

Program Committee

A. P. Metzger (Chairman) B. F. Goodrich Chemical Company, P. O. Box 122, Avon Lake, Ohio 44012.

B. Bernstein, Department of Mathematics, Illinois Institute of Technology, Chicago, Illinois 60618.

W. W. Graessley, Chemical Engineering Department, Northwestern University, Evanston, Illinois 60201.

H. P. Schreiber, Central Research Laboratory, Canadian Industries, Ltd., McMasterville, Quebec, Canada.

J. C. Halpin, (Symposium Chairman) Air Force Materials Laboratory, Research and Technology Division, Wright-Patterson Air Force Base, Dayton, Ohio 45433.

Accommodations

Pre-registration is urged, and directions for reaching the Nassau Inn will be sent by the Local Arrangements Chairman to those who send him the pre-registration form. Those who do not pre-register can get these directions by written request to the Local Arrangements Chairman.

The hotel reservation card and form for pre-registration will be mailed to each member. The hotel reservation cards are pre-paid and returned directly to the Nassau Inn. Individual confirmations will be forwarded directly to each registrant.

Luncheon arrangements have been made at Proctor Hall at the Graduate College. Bus service will be provided to take the participants from the meeting location to Proctor. The luncheon price per person is \$3.50.

Sunday evening, October 25th, 7:30 P.M. to midnight — beer, cheese and crackers will be available in the Social Side of the Student Center; price per person is \$1.50. Monday evening, October 26th, beer, cheese and crackers will be served at a price of \$1.75 per person. Monday, Tuesday, and Wednesday in the Engineering Quadrangle, coffee and pastry each morning and coffee and cookies each afternoon will be served. Tuesday

evening, October 27th, a reception and dinner will be served at the Nassau Inn at \$10.00 per person.

Travel to Princeton

Limousine service is available between Newark Airport and Princeton.

Princeton Princeton Inn Alexander Road	Arrive Newark Airport	Leave Newark Airport for Mercer and Middlesex Counties
6:30	7:25	8:00
8:30	9:25	10:00
10:30	11:25	12:00
12:30	1:25	2:00
2:30	3:25	4:00
4:30	5:25	6:00
6:30	7:25	8:00
8:30	9:25	10:00

We expect to charter a bus for return to Newark Airport at the close of the meeting.

For further details contact W. R. Schowalter at Princeton University in the Department of Chemical Engineering.

Facilities

Speakers will be provided with a blackboard and 2 inch by 2 inch and 3¼ inch by 4¼ inch slide projectors. If other facilities are required, the Local Arrangements Chairman should be contacted as soon as possible.

Publication

Authors are urged, but not required, to publish their papers presented at the meeting in the Transactions of the Society of Rheology. Manuscripts should be submitted to the editor, R. R. Myers, Chemistry Department, Kent State University, Kent, Ohio 44240. Acceptance for publication will be decided by the editor, in consultation with assistant editors for Volume 13 and referees appointed by him for each manuscript.

Instruction for Authors

Preparation of Manuscripts for Transactions

Three copies of the manuscript, of which one should contain glossy prints of the figures are required. All manuscripts should be sent to the editor who will select

RHEOLOGY BULLETIN
Raymond R. Myers, Editor
Department of Chemistry
Kent State University
Kent, Ohio 44240

an assistant editor whose interests most closely coincide with that of the subject of the paper.

Any neat double-spaced copy with comfortable margins is considered acceptable form for the manuscript. Although ribbon copy is preferred, there is no objection to legible duplicated copies; 8½" x 11" sheets are preferable but not mandatory. An abstract of the article should appear on the first page of the manuscript.

1970 BINGHAM MEDALIST

Dr. Anton Peterlin

Dr. Anton Peterlin, Director of the Camille Dreyfus Laboratory Triangle Research Institute, Durham, North Carolina, has been selected as the recipient of the 1970 Bingham award.

The award will be made at the annual meeting.

N. Tschoegl is chairman of the Bingham Award Committee.

Smoker Monday Evening at Art Institute honoring Dr. Peterlin.

1971 WINTER MEETING

University of Utah
Salt Lake City, Utah
February 1-3, 1971

Professor E. B. Christiansen, arrangements chairman, at the Department of Chemical Engineering, University of Utah, Salt Lake City, Utah, 84112 announces that the 1971 Winter Meeting of the Society will be held in Merrill Engineering Building on campus February 1-3, 1971. These dates occur after the Gordon Conference on Polymers.

Rooms have been reserved for 70 attendants at the Hotel Utah, South Temple and Main Streets. Single rooms are \$14 and up. (Doubles, \$17 and up). Write directly to the hotel, or phone (801-328-8114). Bus service every half hour from South Temple Street to the University. Other locations, generally more economical but not quite as convenient are: Hotel Utah Motor Lodge, 125 West North Temple Street, (801-328-8901),

Temple Square Motor Hotel, 75 West South Temple Street, (801-355-2961), and Travelodge, 144 West North Temple Street.

The Smoker will be held at the Fort Douglas Club on the Campus.

SOCIETY OF RHEOLOGY

Executive Committee Meeting

March 9, 1970

Airport Hotel, Pittsburgh, Pa.

1) The meeting was called to order at 11:00 a.m. Executive Committee present: H. Markovitz, R. R. Myers, R. Coulehan, E. A. Collins, J. L. White, J. C. Miller. Others present: A. P. Metzger.

2) The minutes of the previous meeting were accepted as distributed by mail.

3) The secretary reported that a safety deposit box had been rented to store a Treasury note which supplies income for the Bingham Medal.

4) A request from Biosciences Information Service for a complimentary copy of the Transactions for abstracting was turned down.

5) The Rules changes that were submitted to the membership last fall for ratification were passed by a large margin.

6) The Treasurer, R. E. Coulehan reported that the 1969 financial report was presently being done. It is expected that financial statements will be done by computer at the end of 1970 with a substantial improvement in timeliness of the reports.

7) The Editor, R. R. Myers has found that the transactions are limited to 600 pages per year by Interscience. On this basis, there are enough papers accepted to complete Volume 14. Discussion of a double track system for manuscripts with payment of pages charges favored in publication resulted in decision to set up such a system because of the declining number of authors paying the charges.

8) A committee which consists of F. R. Eirich, R. R. Myers, and J. C. Miller was instructed to investigate with Interscience the problems associated with the publication of the Transactions.

9) A more up-to-date list of the number of authors who are paying the page charges is necessary to assess our financial status on a more current basis. The Secretary will try to obtain more current information from AIP or Interscience.

10) The Treasurer reported a surplus of \$487 for the St. Paul meeting.

11) The Winter meeting at Cal Tech was successful with 24 papers presented and approximately 70 registrants.

SOCIETY OF RHEOLOGY
 Princeton Meeting
 Fifth Floor, New South Building
 Princeton University
 Princeton, New Jersey 08540
 Area Code 609 452-3370

October 26-28, 1970

		<i>Amount</i>
REGISTRATION:	Member \$10.00	\$.....
	Nonmember \$15.00
LUNCHEONS:	Monday @ \$3.50
	Tuesday @ 3.50
	Wednesday @ 3.50
COCKTAILS AND BANQUET		
Nassau Inn, Tuesday, 6:30 P.M.	@\$10.00

HOTEL RESERVATION FORM:

Name

Affiliation

Address

I shall need hotel accommodations for the nights of:

Sunday, October 25

Monday, October 26

Tuesday, October 27

Note: Rates range from \$17.50 to \$26.50 for double occupancy of twin-bedded room. It may be necessary to share a twin-bedded room.

I am willing to share a twin-bedded room with

..... I plan to travel by car.

Arrival time

Departure time

..... I would be interested in taking a bus if one were chartered to leave Princeton at the conclusion of the meeting, to Newark airport.

Make checks payable to "Society of Rheology, Princeton University".

Send check, pre-registration form and hotel request not later than *September 8, 1970* to:

Society of Rheology, Princeton Meeting
 Fifth Floor, New South Building
 Princeton University
 Princeton, New Jersey 08540

12) The status of the technical program for Fall 1970 was reviewed by the program chairman A. P. Metzger. A lecture on fracture mechanics will be presented by S. S. Sternstein. An invited lecturer in applied rheology is being sought. It was recommended that publicity about the meeting be sent to as many journals as possible.

13) The quality of slides used at the technical meetings has been uneven. To improve the readability of slides, the program chairman will send out a recommendation on the preparation of slides.

14) An invitation to hold a Winter meeting in Salt Lake City was tabled because of objections by the West Coast. The decision on the West Coast site will be turned over to the West Coast representatives.

15) An instrument exhibition will be held at the 1971 meeting at the University of Tennessee in Knoxville. The President will appoint a committee to investigate the possibility of a short course to be held before or after the meeting on a subject of interest to rheologists.

16) The meeting in 1972 may conflict with the International Meeting and no decision about the 1972 meeting will be made until this Fall.

17) An offer by Rheologica Acta to give a discount to Society members was turned down because we would have to become a participating society. The executive committee felt as a participating society we should have some influence on policy.

18) A committee on rheological nomenclature will be appointed by the President.

19) The British Society of Rheology has conducted a survey of rheological work and made a report. The feasibility of such a survey in the United States will be investigated by E. A. Collins.

20) The Society of Rheology representative to the International Committee on Rheology is R. S. Marvin.

21) A new membership chairman will be appointed and asked to devise a plan to keep retired members on the list perhaps to receive only the Bulletin.

22) The meeting was adjourned 3:30 p.m.

J. C. Miller
Secretary

BRITISH SOCIETY OF RHEOLOGY

The British Society of Rheology will hold a conference on Rheology in Industry at the Royal Military College of Science, Shrivenham, from September 7-10, 1970. Further details may be obtained from K. M. Beazley, 44 Brockstone Road, Boscoppa, St. Austell, Cornwall, England.

FORMER SOCIETY OF RHEOLOGY SECRETARY RETIRES

William R. Willets, National Lead Company, Titanium Pigment Division, retired at the end of April. He shall continue to live at his present residence:

75 Pierrepont Street
Brooklyn, New York 11201

and shall be available as a consultant on all phases of paper technology.

MEMBERSHIP

An application form is in this issue of the Rheology Bulletin. You are encouraged to give it to your friends interested in Rheology. A larger society will give us a better society. Sustaining memberships are encouraged and perhaps you can help in obtaining more of this type which gives the Society more funds.

Another use for the application form is to give it to those who keep borrowing your copy of the Transactions of the Society of Rheology.

Glenn E. Fulmer
Membership Chairman
W. R. Grace and Company
Clarksville, Md. 21029

SYMPOSIUM ON FLOW — ITS MEASUREMENT AND CONTROL IN SCIENCE AND INDUSTRY

The 1971 Flow Symposium, jointly sponsored by American Institute of Physics, American Society of Mechanical Engineers, Instrument Society of America and the National Bureau of Standards, will be presented at the William Penn Hotel, Pittsburgh, Pennsylvania, from May 10 to 14. Emphasis will be placed on the following themes: Flow Characteristics, (e.g., Non-Newtonian Flow), Flow Measuring Devices, Flow Measurement and Control Techniques, and Biological Fluid Flows, (e.g., Rheological properties of blood). The Proceedings for this Symposium will constitute a landmark reference work.

Interested authors should submit abstracts by September 1, 1970 to the Program Chairman, Professor Rodger B. Dowdell, College of Engineering, University of Rhode Island, Kingston, Rhode Island 02881. Requests for additional information and advance program (when available) should be directed to Vincent J. Giardina, Instrument Society of America, 400 Stanwix Street, Pittsburgh, Pennsylvania 15222.

FORMER SOCIETY OF RHEOLOGY
SECRETARY RETURNS

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 _____

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