

# RHEOLOGY BULLETIN

Publication of The Society of Rheology, Inc.



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## 52nd ANNUAL MEETING

Williamsburg, Virginia  
February 22-26, 1981

Registration forms and housing information were mailed separately to members in November. Write Greg McKenna, Polymer Science & Standards Div., National Bureau of Standards, Washington, DC 20234. Fee is \$25 for members.

The program organized by Costel Denson and his committee appears as a separate enclosure, along with the abstracts of the papers.

## BIOGRAPHICAL SKETCH OF HOWARD BRENNER

Professor Howard Brenner, Chairman of the Dept. of Chemical Engineering at the University of Rochester, has been named the 1980 Bingham Medalist of The Society of Rheology.

Dr. Brenner was born in New York City and received his undergraduate and graduate training in that city. In 1950, he was awarded a B.Ch.E. (with honors) from the Pratt Institute. Prof. Brenner received his M.Ch.E. (1954) and Eng. Sc.D. (1957) from New York University, staying on there initially as Asst. Professor of Chemical Engineering. In 1966, Carnegie-Mellon University finally enticed Dr. Brenner to leave the confines of New York City and he spent 11 years in Pittsburgh as Professor of Chemical Engineering, leaving in 1977 to assume his present position at Rochester.

Professor Brenner's contributions to rheology and fluid mechanics have been numerous and important. His papers are characterized by rigor, clarity and a knowledge of both the application and limitation of the analyses to problems of practical importance. He is probably best known for his fundamental work on developing constitutive equations for dilute suspension and emulsions. Prof. Brenner's book on *Low Reynolds Number Hydro-Dynamics* (with Happel) has been a fertile ground for research in the rheology of particulate systems and still serves as a primary reference source for work in this area. More recently, he has made fundamental contributions to the field of surface diffusion and interfacial mass transfer and dispersion in flow through porous media.

Other recent achievements of Prof. Brenner include being Sherman Fairchild Distinguished Scholar at California Institute of Technology (1975-76), receiving the Alpha Chi Sigma Award of the American Institute of Chemical Engineers (1976), and election to the National Academy of Engineering (1980).

## 53rd ANNUAL MEETING

October 11-15, 1981  
Stouffers Inn (Downtown)  
Louisville, Kentucky

### Program Committee:

L. R. Schmidt (Chairman), General Electric Company, Research & Development Center, P.O. Box 8, Schenectady, New York 12301. L. W. Kleiner, Diamond Shamrock Corporation, T. R. Evans Research Center, P.O. Box 348, Painesville, Ohio and symposia chairmen listed below.

### Local Arrangements Committee:

C. E. Miller (Chairman), Department of Civil Engineering, University of Louisville, Louisville, Kentucky 40208.

## CALL FOR PAPERS

Deadline for Abstracts: July 1, 1981

An abstract of 250 words or less is required NO LATER THAN JULY 1, 1981. Abstracts should be single-spaced, have 1 1/2" margins, and be sent directly to the appropriate symposium chairman whose address is listed below:

### *Biorheology*

C. E. Miller  
University of Louisville

### *Numerical Simulation of Materials Processes*

B. Caswell  
Division of Engineering  
Brown University  
Providence, RI 02912

### *Non-Traditional Experimental Techniques for Determining Viscometric Functions*

J. J. Ulbrecht  
Dept. of Chemical Engineering  
SUNY at Buffalo  
Amherst, NY 14260

### *Novel Polymer Processing Techniques: Solid Phase Processing, Co-Injection, Co-Extrusion*

M. R. Kamal (Chairman)  
Department of Chemical Engineering  
McGill University  
Montreal PQ H3A 2A7 CANADA

### *Rheology of Suspensions & Two-Phase Flows*

J. D. Goddard  
Department of Chemical Engineering  
University of Southern California  
University Park, CA 90007

### *Rheo-Optics*

D. G. LeGrand  
General Electric Company  
Research & Development Center  
P.O. Box 8  
Schenectady, NY 12301

### *General Papers Sessions*

H. H. Winter  
Dept. of Chemical Engineering  
University of Massachusetts  
Amherst, MA 01003

## 1981 BINGHAM AWARD

Fall 1981 Bingham Award Committee Chairman is Robert S. Moore, Research Laboratory, Bldg. 81, Eastman Kodak Company, Rochester, NY 14650. Nominations should be sent to him before March 15, 1981. Supporting documents should accompany the nominations.

Other committee members are: L. V. McIntire, D. C. Bogue, C. I. Chung, A. B. Metzner, and N. Nakajima.



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

**ANNOUNCEMENTS**

The Rheology & Coatings Laboratory at Kent State University will present three short courses for specialists in coatings and polymers during May and June, 1981. They are:

- “Dispersion of Pigments & Resins in Fluid Media,” May 18-22, 1981;
  - “Adhesion Principles & Practice for Coatings & Polymer Scientists,” June 8-12, 1981;
  - “Applied Rheology for Industrial Chemists,” June 15-19, 1981.
- Contact Carl J. Knauss, Dept. of Chemistry, Kent State University, Kent, OH 44242.

**GRADUATE PROGRAMS IN RHEOLOGY**

The American Institute of Physics publishes an annual report on Research Specialties of Doctoral Programs in Physics, Astronomy & Related Fields. In its publication on Graduate Programs, Rheology and Fluids is listed. Please send suggestions of university departments which should be listed as having graduate programs in rheology and include the name and address of a person to contact. Send this listing to Irvin M. Krieger, Dept. of Chemistry, Case Western Reserve University, Cleveland, OH 44106.

A film on Non-Newtonian Fluids discussing behaviour under six main headings:

- 1) Viscoelasticity
- 2) Non-Newtonian viscosity
- 3) Normal stress effects
- 4) Extensional viscosity
- 5) Time dependent effects
- 6) Miscellaneous

may be purchased by contacting Dr. J. M. Broadbent, Dept. of Applied Mathematics, University College of Wales, Aberystwyth, U.K.

A.I.P. 50th Anniversary calendar is available for \$1.50. Send check (made payable to AAPT) to: AAPT Publications Department, Graduate Physics Building, S.U.N.Y., Stony Brook, NY 11794.

**Application for Membership in the  
 SOCIETY OF RHEOLOGY**

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Inorganic Materials .....	C
Oils and Lubricants .....	D
Soils .....	E
Synthetic Polymers .....	F
Fluids (Including Solutions) .....	G
Solids .....	H
Suspension and Particulate Systems .....	J
Engineering .....	K
Experimental Techniques .....	L
Mechanics .....	M
Phenomenology .....	N
All of the above .....	Y
None of the above .....	Z

I understand that my regular member's subscription to the *Journal of Rheology* is for my personal use, and not for library use.

.....  
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Enclose remittance of \$15 for Regular Annual Dues or \$100 for Sustaining Annual Dues and mail to:

THE SOCIETY OF RHEOLOGY  
 c/o American Institute of Physics  
 335 East 45th Street  
 New York, New York 10017