THE SOCIETY OF RHEOLOGY
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Nominations for the 2000 Bingham Medal

Nominations are invited for the 2000 Bingham award. These should be submitted before January 14, 2000 to the next chair of the Bingham award Committee, Professor A.J. McHugh, at Department of Chemical Engineering, University of Illinois, Urbana, IL 61801. Award guidelines may be found at http://www.umche.main.edu/sor/awards/bingham/rules.htm

WILLIAM B. RUSSEL
1999 BINGHAM MEDALIST

The Bingham medal of the Society for 1999 will be awarded at the Madison meeting to Professor Bill Russel of Princeton University. A write-up appears inside this issue of the Bulletin.

71st ANNUAL MEETING
MADISON, WI
OCTOBER 17 - 21, 1999

The 1999 annual meeting of the Society of Rheology will be held at the Monona Terrace Convention Center in Madison, Wisconsin. The meeting registration form may be downloaded from the Society’s web page at http://www.umche.main.edu/sor/ Information on area hotels and details of the technical program may also be found at this web address. Exhibitors at the meeting will find everything they need to know at http://www.umche.main.edu/sor/annual_meeting/1999Oct/default.htm. Additional information can be obtained by contacting the local arrangements chair:

A. Jeffrey Giacomin
Rheology Research Center
University of Wisconsin
Madison, WI 53706
(608) 262-7473; Fax: (608) 265-2316
e-mail: giacomin@engr.wisc.edu

RHEOLOGY SHORT COURSE

A two-day short course on Optical Rheometry will be offered in Madison, October 16-17, 1999. The instructor is Professor G.G. Fuller of Stanford University. A complete course description and the course registration form are included in this issue of the Rheology Bulletin.

1999 JOURNAL OF RHEOLOGY
PUBLICATION AWARD

The hallmark of Professor William B. Russel’s contributions to rheology is integration, and the integration has occurred along several axes. One is an intellectual axis. He began his professorial career at Princeton with a thorough grounding in classical fluid mechanics, received from graduate study at Stanford and postdoctoral work at Cambridge. To this he added a comprehensive knowledge of the thermodynamics and statistical mechanics of colloids. This intellectual integration was facilitated through collaborative integration with colleagues, most notably chemical physicists such as Hall and colloid chemists such as Buscall. He also integrated his outlook on a fundamental/application axis through active collaborations with colleagues at Princeton as well as abroad. His skill as an experimentalist as well as a theoretician is evident from many of his most important papers. His approachable personality has led to important collaborations with colleagues at Princeton as well as abroad. Finally, his influence as a guiding hand and interim director of the Princeton Materials Institute has had much to do with the pre-eminent position he holds in the colloid science community. His dedication and intellectual integrity have inspired many of his students to prominence. His influence has been so pervasive that no serious description of any of the four areas listed above would fail to refer to his work. Professor Russel is perhaps the most influential colloid scientist at work today.

Bill Schowalter

Erratum

A mistake has been printed in the contribution of P. Dontula and C.W. Macosko: Yield Stress in Orbitz™, in the Rheology Bulletin 68(1), 5-6 (1999).

The buoyant (or gravitational) force is \( \Delta \rho g \frac{4}{3} \pi R^3 \) (the gravitational acceleration \( g \) was omitted). The restoring force due to yield stress is \( \pi \tau_s R^2 \). A balance between the two gives an estimate of the maximum density difference between a particle of radius \( R \) and the liquid in order for the particle to remain stationary. With particles 5 mm in diameter, this density difference is 1.2 kg/m\(^3\) (not 12 kg/m\(^3\)). Air bubbles smaller than 6 \( \mu \) m (not 60 \( \mu \) m) will remain stationary in Orbitz™.

The authors thank Dr. Jin Kon Kim for bringing this error to their attention.

Dr. Skip Rochefort, Department of Chemical Engineering, Oregon State University, also brought to the attention of the authors his poster (along with high school student Jason Hower) presented at the 1998 Annual Meeting of the Society of Rheology in Monterey, CA. They measured the viscosity of four different bottles of Orbitz™ with a constant-stress rheometer. Viscosities of two samples fell sharply at a shear stress comparable to that measured by Dontula and Macosko (about 0.04 Pa), and the viscosities of the other two samples fell sharply at about twice that value.
CONSTITUTIONAL CHANGES PROPOSED FOR THE SOCIETY OF RHEOLOGY

An ad hoc committee has been drafting proposed changes to the Constitution and Rules of the Society of Rheology. The most important of changes PROPOSED by the ad hoc committee are:

1.) THE BINGHAM MEDAL WILL NO LONGER BE AWARDED ONLY TO NORTH AMERICANS.

2.) THE NUMBER OF MEMBERS-AT-LARGE ON THE EXECUTIVE COMMITTEE WILL BE INCREASED FROM TWO TO THREE.

In order for these proposed changes to become part of the Constitution of the Society of Rheology, they, as well as others contained in the draft revised constitution, must be voted on in a letter ballot of the membership of the Society of Rheology. As currently proposed, major issues (including those above) will be separated out into approximately 8 different issues to be voted on. All members of the Society of Rheology are asked to look over the proposed constitutional changes (see enclosed flyer or on the Web at http://www.umche.maine.edu/sorconst/) and give feedback to the Ad Hoc Committee on Constitutional Reform. A full discussion of the proposed changes will take place at the Society Business Meeting in Madison in October.

The Ad Hoc Committee on Constitutional Reform has been drafting changes to the Constitution and Rules of The Society of Rheology for the last three years. This committee, composed of Faith Morrison (chair), Arthur Metzner and Jeffrey Giacomin, solicited input from the SOR membership, deliberated, and reported to the Executive Committee in March on proposed changes to the SOR governing documents. The proposed changes fall into five categories (see enclosed draft of the proposed, revised Constitution):

1. Major, substantive changes of policy; these include changes to the criteria used to award the Bingham Medal and adding an additional member to the Executive Committee.

2. Minor, but substantive changes that make the Constitution and Rules conform to current practice or which simplify the operation of the Society.

3. Changes to make the Constitution and Rules gender neutral.

4. Changes to make the Constitution and Rules more self-consistent (legalistic changes that do not change policy or practice).

5. Changes to improve the grammar and punctuation used in the Constitution and Rules.

The processes for amending the Constitution and Rules are slightly different, but both processes require that the membership, at a regularly scheduled annual meeting, first vote to conduct a letter ballot on the proposed amendments. The Executive Committee has proposed that such a vote take place at the Madison Meeting in October 1999.

The final ballot to be discussed in Madison will be developed by the Secretary and the Ad Hoc Committee on Constitutional Reform after the membership has had an opportunity to review the proposed revisions to the Constitution and Rules. The ballot will be a multi-part ballot so that members will have the opportunity to vote on approximately 8 different issues. The proposed constitutional revisions are posted on the World-Wide Web at http://www.umche.maine.edu/sorconst/, which is accessible from the SOR homepage. This page includes a draft ballot and a color-coded summary of the various changes by category.

Please contact the Ad Hoc Committee on Constitutional Reform with any suggestions or comments on the proposed changes to the Constitution and Rules. The purpose of this reform effort is to make the Constitution and Rules of The Society more accurately reflect the wishes of the membership. In order for this exercise to be meaningful, we need the widest possible participation of the membership. Please contact the committee by e-mailing Faith Morrison (fmorriso@mtu.edu) or by writing to her at the following address:

Faith Morrison, Associate Professor
Department of Chemical Engineering
Michigan Technological University
1400 Townsend Drive
Houghton, MI 49931-1295
Fax: (906) 487-3213

THE FULL SET OF PROPOSED CONSTITUTIONAL CHANGES IS ON THE WEB AT http://www.umche.maine.edu/sorconst/

RHEOLOGY BULLETIN
AUTHOR GUIDELINES

The Rheology Bulletin publishes papers on the applied aspects of Rheology which are intended for the non-specialist. Appropriate topics include the application of rheological principles to a specific system, instrumentation for rheological measurements, description of interesting rheological phenomena, and the use of well-established rheological techniques to characterize products, processes or phenomena. Papers describing historical aspects of the practice of rheology and how these have influenced current trends are welcome. Also welcome are papers that address the present and changing status of rheological education. Consultation with the Editor prior to manuscript submission is encouraged.

CHANGE OF ADDRESS

If you are moving, please inform Janis Bennett (516) 576-2403, Fax: (516) 576-2223, or Carolyn Gehlbach (516) 576-2404 at

THE SOCIETY OF RHEOLOGY
 c/o American Institute of Physics
 500 Sunnyside Boulevard
  Woodbury, NY 11797
MINUTES OF THE EXECUTIVE COMMITTEE MEETING
MARCH 13-14, 1999

The meeting was called to order at 7:00 p.m. in the Renaissance Hotel, Los Angeles, California. Executive Committee Members in attendance included: Ron Larson, Gerry Fuller, Monty Shaw, Kurt Wissbrun, Morton Denn, and Andy Kraynik. Invited guests included: Janis Bennett, Andrea Chow, Jeff Giacomin, Faith Morrison, and Susan Muller. The minutes of the October 4, 1998 Executive Committee Meeting, which appeared in the January 1999 Rheology Bulletin, were approved as read.

The entire evening was devoted to discussing revisions of the Constitution and Rules of the Society, which will be presented to the membership at the Annual Business Meeting in Madison on October 19. Faith Morrison, who chaired the Ad Hoc Committee on Constitutional Reform led the discussion; other committee members included Jeff Giacomin and Art Metzner. The Society is grateful to Faith, Jeff, and Art for their diligence in this important matter. The Saturday evening session was adjourned at 10:00 p.m.

The Sunday morning session was called to order at 8:00 a.m. Jeff Giacomin discussed local arrangements for the annual meeting in Madison, Wisconsin, October 17-21, 1999. Don Baird described preparations for a Winter meeting in Hilton Head, South Carolina, February 11-15, 2001. Ron Larson read a report provided by Carl Schulteisz outlining plans for the regular annual meeting in Bethesda, Maryland, October 21-25, 2001. The Committee voted to accept a proposal submitted by Chris Macosko to host the 2002 Fall Meeting in the Twin Cities, Minnesota. The International Congress on Rheology will convene in Cambridge, U.K., August 20-25, 2000. Discussion on meeting expenses and receptions followed.

Ron Larson read a report submitted by Bill Van Arsdale, who chairs the Membership Committee. The Society had 1779 members as of March 1999. Monty Shaw delivered the Treasurer's report. Details of our sound financial position can be found in the Rheology Bulletin. Monty warned of higher AIP expenses in the upcoming year and also discussed insurance issues. Ron Larson led discussion relating to the Journal of Rheology on-line. We decided not to permit the CD-ROMs of back issues of the Journal to be loaded onto local area networks (LANs) unless the organization was an institutional subscriber. Ron Larson read a report submitted by Webmaster Albert Co on the Society of Rheology Home Page. Jeff Giacomin, Associate Editor for Finance, reported on non-member subscriptions to the Journal. Morton Denn provided the Editor's report for the Journal of Rheology, which continues in good health. The possibility of establishing a permanent site for the Editorial office (not the Editor) was discussed. Susan Muller, who chairs the Education Committee, disclosed plans to offer a Student Poster Presentation Award at Society Meetings. Compensation for instructors of Society short courses was also discussed. On advice of the Bingham Award Committee, the possibility of posthumous Bingham Awards was discussed. It was decided that the Bingham Medalist must be living when selected. The medal is also to be awarded for work in the most recent ten years. The full guidelines for the Bingham Award will be posted on the Web. We voted to accept a proposed amendment to the AIP Constitution that clarifies the intent of Article IX on Services and Charges.

Following a brief Executive Session, the meeting was adjourned at 12:00 noon.

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The Treasurer. He shall be the disburse officer of The Society and shall approve all expenditures by The Society upon authorization of the Executive Committee.

The Treasurer. He may be required to give bond for the faithful discharge of his duties of the office of Treasurer, to the extent as may be required by the Executive Committee.

The Treasurer. He shall prepare an annual budget and present it to the members at the Annual Meeting.

The Treasurer. He shall prepare an annual report on the state of the finances of The Society in accordance with ARTICLE VII of the Constitution.

Section 5

The Editor shall be responsible to the Executive Committee for carrying out the publication policy of The Society.

He shall have the technical direction of The Society's publications, journals, as defined in ARTICLE VII of the Rules.

Section 6

The Executive Committee shall be empowered to make working rules of order and to create additional standing and ad hoc committees for the control and operation of The Society. All rules and regulations and committee appointments so made shall terminate with the expiration of tenure of office of the officers promulgating them, unless continued by incoming officers constituting the succeeding Executive Committee.

In the event that an officer of The Society dies or resigns before the completion of his term of office while in office, the Executive Committee shall appoint a successor to complete his unexpired term of the office, subject to the provisions stipulated in Section 2 of ARTICLE I of the Rules that the Vice-President shall succeed if the Office of President becomes vacant.

If the Executive Committee shall determine the date and place of the Annual Meeting and any other meetings of The Society which shall be called in accordance with ARTICLE VI of the Constitution.

The Executive Committee recommends the formation or the dissolution of Divisions as stipulated in ARTICLE VIII of the Constitution.

The Executive Committee shall have the power to overrule or modify the action of any officer of The Society.

ARTICLE II - Quorum

A quorum of The Society shall be the number present at a regularly scheduled business session of The Society. A quorum of the Executive Committee and of all other Committees shall be a majority of said committees.

ARTICLE III - Dues and Privileges

Section 1

Regular members. Members in good standing of The Society ("members") shall be live natural persons and shall pay annual dues of $40, payable in advance. Each member shall receive the official publications of The Society.

Section 3

Corporate Associates shall be an organization with an active interest in the science of rheology. The dues for the Corporate Associates shall be established by the Executive Committee.

Section 3.2

Accepted applications for membership in The Society received prior to June 30 shall be considered as for the current year, and the numbers of the current volume of The Society's Journal, hereinafter provided for in ARTICLE VII of the Rules, will be furnished to said members. Applications accepted for membership after June 30 shall be applied to the following year, and Journals will start with the first issue of the current year unless applicants specifically request the application to be applied to the current year.

Members delinquent in dues three months after the official date of renewal shall be declared suspended in good standing and their names removed from the official roster of The Society. Suspended members not in good standing or resigned members may be reinstated without payment of back dues, by action of the Membership Committee.

Retired or otherwise unemployed members of The Society may, upon application to the Secretary, remain as members of record of The Society so long as payment of the Annual Dues, provided that they have been regular members for a period of at least 10 years at the time of the application. Such members of record shall be accorded all privileges of membership except that they will not receive, as part of their membership, either printed or electronic subscriptions to the journals of The Society. Unemployed members who have been regular members for a period of 5 years at the time of application may, for a maximum period of 3 years, retain all privileges of membership without payment of dues. Applications for waiver of dues for unemployed members shall be reviewed by The Secretary, with input from the Executive Committee, and shall be granted at the Secretary's discretion.

Unemployed or retired members with less than 10 years of membership may elect to pay dues of 50% of the dues current at the time of the application. In either case, members in the retired or unemployed category will receive the Bulletin and/or any other official publications of The Society, but shall not receive any technical journals published or sponsored by The Society, except as they may elect to subscribe to an individual basis.

ARTICLE IV - Membership Committee

There shall be a standing membership committee. Membership Committee of at least three members appointed by the President. The Chairman of the Membership Committee shall receive and pass upon all applications for membership with the advice of the Membership Committee, and shall notify the Secretary of the action taken upon the applications.

The Membership Committee will act on the status of members not in good standing as provided for in ARTICLE III of the Rules.

ARTICLE V - Nominating Committee and Election Procedure

A Nominating Committee shall be appointed biannually initially and shall function in accordance with the provisions of ARTICLE V of the Constitution.

ARTICLE VI - Representatives

Section 1

As a Member Society of the American Institute of Physics, The Society shall be entitled to nominate candidates for directorship on the Governing Board of the Institute, to the number of and under the circumstances authorized by ARTICLE V of the Constitution of the American Institute of Physics, Incorporated.

On the basis of a membership census, The Society shall nominate one director to the Governing Board of the American Institute of Physics who shall be the President of The Society or his officially appointed representative of the President. If the Society's representative on the Governing Board of the American Institute of Physics is not an elected member of the Executive Committee, he or she shall be The Society's representative shall be a non-voting participant at all meetings of the Executive Committee.

When the membership of The Society attains such a number as to entitle it to more nominees to the Governing Board of the American Institute of Physics they shall be, in order, the Secretary, the Vice-President, the Treasurer and the Editor or other members of The Society appointed by the President in the event the aforementioned officers decline to serve.

Section 2

The terms of office of directors representing The Society on the Governing Board of the American Institute of Physics shall be set for two-year periods, which terms shall commence as the time of their nomination and election at the next annual meeting of the American Institute of Physics following the election of officers by The Society.

Section 3

The President shall appoint The Society's representative to those organizations in which The Society is entitled to representation. The term of appointment shall be the minimum term recommended by the organization to The Society of Rheology.

The President shall appoint an official representative of The Society to attend technical meetings, inaugurations, or dedications. Upon recommendation of the President, the Executive Committee shall determine the expense allowance of official representatives.

ARTICLE VII - Publications

Section 1

The Society will publish technical journals designed to increase and disseminate knowledge of Rheology.
The Society of Rheology
Presents
A Two-Day Short Course on

Optical Rheometry of Complex Fluids and Interfaces

by
Gerald G. Fuller
Stanford University

Dates: Saturday & Sunday, October 16 & 17, 1999. The short course is held in conjunction with the 71st Annual Meeting of the Society of Rheology, October 17-21, 1999. The course will begin at 8:30 am, Saturday, October 16, 1999.

Location: Grainger Auditorium, Engineering Hall, Room 1610, College of Engineering, University of Wisconsin at Madison, 1415 Engineering Drive, Madison, Wisconsin 53706

COURSE DESCRIPTION
The nonlinear rheology of complex liquids is linked to the coupling of their microstructure to hydrodynamic forces. Optical methods in rheology can offer an important means of establishing the link between structure and flow properties for a wide range of materials that include polymer liquids, suspensions and dispersions, liquid crystals, and surfactants. This course introduces optical techniques from the basic foundation of Maxwell equations to the design of measurements of \textit{in situ} optical properties. The course will be driven by applications of these methods to solve current, technological and scientific problems in rheology. The methods that will be discussed will include:

- Optical polarimetry: flow-induced birefringence and dichroism from the ultraviolet to the infrared.
- Light scattering: small angle and wide angle total intensity light scattering.
- Fluorescence and Raman scattering: polarization dependent measurements of orientation.
- Brewster angle microscopy: polarized light reflectance method for flowing interfaces.

The underlying principles and design of these techniques will be discussed. Attention will be given to the pragmatic issues related to incorporating these measurements into flow geometries so that the desired microstructural information can be extracted. The following applications will be used to highlight the use of these methods:
• Segmental orientation of flowing polymer solutions and melts, and liquid crystals.
• Flow-induced morphology of emulsions, block copolymers and polymer blends.
• Spatially resolved stress measurements in complex, non-Newtonian flows.
• Flow-induced structure in surfactant solutions.
• Non-Newtonian rheology of complex interfaces.

About the instructor:
Gerald G. Fuller is Professor and Chairman of the Department of Chemical Engineering at Stanford University. He is well known for his developments of new methods in rheo-optics and is author of the book *Optical Rheometry of Complex Fluids* published by Oxford University Press. Professor Fuller is a Fellow of the American Physical Society and received the Bingham Medal from The Society of Rheology in 1997.

Registration Information:
The fee for the two-day course is $375 prior to September 17, 1999. For registration after September 17, the fee will be $475. Student rates are $188 prior to September 17 and $238 after September 17.

Purchase of Professor Fuller's textbook, *Optical Rheometry of Complex Fluids*, is optional; those wishing to purchase it through the short course for $68 must do so by September 17. Cancellations received in writing by September 17, 1999 will be subject to a $25 administrative charge. No refunds will be granted after that date.

Send the short course registration form and payment (check payable to UW-Extension, money order, Mastercard, or Visa) to:

Rheology 71st Annual Meeting
Attn: Pat Gaitan
The Pyle Center
702 Langdon Street
Madison, WI 53706-1487
Fax: (608)265-3163

Reservations for lodging should be made by the participant. Downloadable hotel & short course registration forms are available at the Society of Rheology website.
REGISTRATION FORM

The Society of Rheology Short Course

Optical Rheometry of Complex Fluids and Interfaces by Professor Gerald G. Fuller
October 16 & 17, 1999 — Madison, Wisconsin

Name: ___________________________  Badge Name: ___________________________
Affiliation: ______________________  Address: _______________________________
City, State: _______________________  Zip, Country: ___________________________
Telephone: ______________________  e-mail: ________________________________
Fax: ______________________________

Registration Fee: Short course registration includes a set of course notes which will be the
primary materials used by the students during the class. Purchase of Professor Fuller’s textbook is
optional; those wishing to purchase it through the short course must do so by September 17.
Cancellations received in writing by September 17, 1999 will be subject to a $25 administrative
charge. No refunds will be granted after that date.

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<td>Before 9/17/99</td>
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<td>Short course (member)</td>
<td>$375</td>
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<td>Short course (student)</td>
<td>$188</td>
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<tr>
<td>Optical Rheometry of Complex Fluids</td>
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* Although every effort will be made to provide course materials for all participants at the start of
the course, those registering late may not receive course materials on time.

Method of Payment:

_____ Check or money order
_____ Mastercard
_____ Visa
(payable to UW-Extension)

Cardholder Name: ___________________________
Account #: ___________________________
Expiration Date: ___________________________
Signature (required for credit card transaction): ___________________________

Return this registration form together with payment to:
Rheology 71st Annual Meeting, Attn: Pat Gaitan, The Pyle Center, 702 Langdon Street, Madison,
WI 53706-1487. Fax: (608) 265-3163.

Early registrations will be confirmed with a printed receipt by mail. Late registrations will receive a printed receipt
at the short course. Forms with credit card information may be faxed to (608) 265-3163. Reservations for lodging
should be made by the participant. Attendees will pay their own room, tax and incidentals incurred by them at the
hotels. The federal tax identification number of The Society of Rheology is 13-620-3476. The course will
begin at 8:30 am, Saturday, October 16, 1999.
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☐ Another Contact: _____________________________________________
Phone Number: ______________________ Fax: ______________________

FAX TO: 201-265-1977
THE SOCIETY OF RHEOLOGY
CONSTITUTION AND RULES

Proposed Changes made by the NOW Ad Hoc Committee on Constitutional Reform

Faith A. Morrison, Chair
A. Jeffrey Giacomin
Arthur B. Metzner

Please send comments or inquiries to the email addresses above or to the committee at the addresses below:
Faith Morrison, Associate Professor
Department of Chemical Engineering
Michigan Technological University
1400 Townsend Drive
Houghton, MI 49931-1295
FAX: 906-487-2311
Telephone: 906-487-2050
Leave message 906-487-3132

The Ad Hoc Committee on Constitutional Reform is looking for any and all feedback on these Constitutional issues. The membership of The Society of Rheology will vote at the Business Meeting in Madison whether or not to conduct a vote on proposed constitutional amendments. The SOR Secretary, with our help, will be constructing the actual ballots for this vote based on input we receive either by email, postal mail, fax or at the SOR Business Meeting. To send a message to the committee, email us or write us at the address above.

Text proposed to be deleted is written in strike-through characters. New text is underlined. Occasionally text appears that is both strike-through and underlined. This text is new text proposed by one of the 8 proposed constitutional ballot items, but negated by a second ballot item. A fully color-coded version of this document and of the proposed ballot is available on the web at http://www.umech.maine.edu/sorconst/. Additional information about the proposed changes may also be found on the web page listed above.

Proposed Revised CONSTITUTION

ARTICLE I - Name

The name of this organization shall be The Society of Rheology, Incorporated, hereafter referred to as The Society.

ARTICLE II - Purpose

The object of The Society shall be the advancement of Rheology and its applications. Rheology is here defined as the science of the deformation and flow of matter. The objects shall be promoted (a) by meetings, (b) by a publication policy designed to increase and disseminate knowledge of rheology, hereinafter provided for in ARTICLE VII of the Rules, and (c) by other appropriate means.

ARTICLE III - Membership

Any person or institution interested in the purposes of The Society may apply for membership provided an application, made out in due form, is submitted to the Chairman of the Membership Committee or to the designate of the Chair, hereinafter provided for in ARTICLE IV of the Rules.

ARTICLE IV - Officers and Executive Committee

Section 1

The officers of The Society shall consist of a President, a Vice-President, a Secretary, a Treasurer, and an Editor.

Section 2

The governing body of The Society shall be its Board of Directors, which shall be called the Executive Committee.

Section 3

The Executive Committee shall consist of the officers of The Society, the most recent living Past-President of The Society, and Members-at-Large, and one representative from each Division as provided for in ARTICLE VIII. If there are more than two divisions, the number of Members-at-Large shall equal the number of Divisional Representatives, but in no case at least two. There shall be at least three Members-at-Large.

Section 4

The terms of the officers and of the members of the Executive Committee shall be two years or until their successors are elected. The terms shall start at the beginning of the last day of the Annual Meeting held subsequent to the date of their election, hereinafter provided for in ARTICLE VI, and shall terminate at the beginning of the last day of the Annual Meeting in the year of expiration of their terms of office.

If for any reason the Annual Meeting is postponed beyond the end of the election calendar year in which it would normally be scheduled, the incoming officers and members of the Executive Committee will take office at noon on December 31 of said election year.

Section 5

The Executive Committee shall be the legal representative of The Society. It shall have the power to expend the funds of The Society, or to invest the same, but shall not incur indebtedness beyond the assets of The Society. It shall transact all business of The Society not otherwise provided for specifically in the Constitution and Rules of The Society.

ARTICLE V - Nomination and Election of Officers

Section 1

At a suitable time prior to an election, a Nominating Committee consisting of three members of The Society shall be appointed by the President. The President shall appoint a Nominating Committee consisting of three members of The Society. The Nominating Committee shall operate under the guidelines outlined in Article V of the Rules. One of the three members of this Committee shall be designated by the President to act as Chairman. If for any reason the President cannot take this action, the Executive Committee shall appoint the members and Chairman of the Nominating Committee.

Section 2

The Nominating Committee shall, through its Chairman, report to the Secretary of The Society at least one nominee but no more than two nominees for each of the offices named in Section 1 of ARTICLE IV of this Constitution, and at least two but not more than four nominees for Members-at-Large on the Executive Committee. Nominees will be members in good standing of The Society as provided for in ARTICLE III of the Rules.

At least one hundred forty-five (145) days prior to the date of the Annual Meeting at which the results of an election are to be announced, an election is to be held, the Secretary shall inform the members of The Society of the list of nominees reported to him by the Nominating Committee. For a period of forty-five (45) days following the date of such notification, additional nominees may be named by petition forwarded to the Secretary and signed by at least fifteen (15) members in good standing of The Society. Upon receipt of such petition, the Secretary shall, after acceptance of such nominations by the nominees, add such names to the ballot prepared by him. Where more than one nomination for each office has been made, the complete list of nominees comprising the ballot shall be arranged in alphabetical order, wherever more than one nomination for each office has been made. A statement of qualifications of the candidates for Editor shall be circulated with the ballot.

Section 3

At least ninety-one (91) days prior to the Annual Meeting at which the results of an election are to be announced, an election is to be held, the Secretary shall forward a copy of each member in good standing of The Society a complete ballot, prepared as provided in Section 2 of this ARTICLE. The ballot shall, in addition, contain a notice that the voter may vote for any qualified person other than the listed nominees, and spaces shall be provided for recording such votes.

Ballots shall be returned to the Secretary or to the designate of the Secretary, and be valid must be delivered or postmarked not later than thirty (30) days prior to the Annual Meeting at which the results of the election is to be held. Any ballot marked so as to indicate a votes for more than one officer nominee for any one office or for more than three nominees for Members-at-Large shall be void in its entirety.
The formation of the Executive Committee and the competent authorities shall provide for the communication of the Executive Committee and the competent authorities.

Section 2

The competent authorities shall provide for the communication of the Executive Committee and the competent authorities.

ARTICLE III - Powers of the Executive Committee

The Executive Committee shall exercise the powers granted to it by the Articles of Association and shall exercise such other powers as the Articles of Association may provide.

Section 1

The Executive Committee shall exercise the powers granted to it by the Articles of Association and shall exercise such other powers as the Articles of Association may provide.
The Society of Rheology
Assets and Liabilities
December 31, 1998

Units: USD

ASSETS
Cash in checking account 3,118
Due from AIP 727,018

730,136

LIABILITIES and RESERVES
Deferred subscription revenue 96,690
Deferred membership dues 44,863
Publication reserve 300,000
Student travel grant reserve 10,000
Annual Meeting reserve 35,000
Operating reserve 70,000

556,553

Net available funds 173,583
# The Society of Rheology  

Units: USD

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<td>58,000</td>
<td>83,903</td>
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<td>244,100</td>
<td>296,676</td>
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<td>210,100</td>
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<td>5,000</td>
<td>2417</td>
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<td>5,000</td>
<td>8351</td>
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<td>429,155</td>
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<td>319,250</td>
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<td>244,750</td>
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<td>392,665</td>
<td>332,553</td>
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<td>169,000</td>
<td>173,583</td>
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Notes: Line 13 due to AIP policy change; see JOR sheet Line 15 for corresponding reduction.
### Journal of Rheology

**Statement of Revenues and Expenses, Revised 1999 Budget and Proposed 2000 Budget**

Units: USD

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<td>3. Subscriptions</td>
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<td>14. Production</td>
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<td>15. Fulfillment</td>
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<td>83,700</td>
<td>92,861</td>
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<td>24,500</td>
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<td>18. TOTAL EXPENSES</td>
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<td>295,970</td>
<td>298,715</td>
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<td>244,750</td>
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**Notes:**

1. As opposed to providing the 1997 budget, we have chosen to use the 5th column to present a glimpse of the 2000 budget to illustrate the serious effect of falling journal sales. The 1999 budget represents an update from that presented at the annual meeting due to changes in AIP billing costs, mainly in line 15.

2. Line 6, of 1998 Actual is from 1998 CD sales; JORO has no income. 1999 Budget assumes sales of 40 CD's and a spillover of costs. 2000 Budget assumes CD sales will end and that JORO expenses will remain at contract levels, with no income.
Innovations in Rheology

AR1000 Rheometer now with Torsional Analysis of Solids

- Extends AR1000 Capabilities to include Analysis of Solids to ASTM specifications
- Available as upgrade to existing AR1000 users
- "Clamshell" oven compatible with torsion clamps, parallel plate and cone & plate

Compressional Rheology

CP-20 Rheometer
A new, low cost way to obtain dynamic visco-elastic data

- New Patented Technology
- Absolute Visco-elastic data (Frequency Sweep, Temperature Ramp, Force Sweep, Time Ramp)
- Fast, rugged, easy-to-use design; ideal for QC applications

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Internet: http://www.tainst.com • e-mail: info@tainst.com