

# **75th Annual Meeting of The Society of Rheology 2003**

Program and Abstracts

Pittsburgh, Pennsylvania, USA  
12 – 16 October 2003

**Editor:**

**Albert Co**

ISBN: 978-1-7138-1838-0

**Printed from e-media with permission by:**

Curran Associates, Inc.  
57 Morehouse Lane  
Red Hook, NY 12571



**Some format issues inherent in the e-media version may also appear in this print version.**

Copyright© (2003) by Society of Rheology  
All rights reserved.

Printed with permission by Curran Associates, Inc. (2021)

For permission requests, please contact Society of Rheology  
at the address below.

Society of Rheology  
Bldg. 226, Room B350  
100 Bureau Dr.  
Stop 731.04  
Gaithersburg, MD. 20899-8615

Phone: (301) 975-6016

[www.rheology.org](http://www.rheology.org)

**Additional copies of this publication are available from:**

Curran Associates, Inc.  
57 Morehouse Lane  
Red Hook, NY 12571 USA  
Phone: 845-758-0400  
Fax: 845-758-2634  
Email: [curran@proceedings.com](mailto:curran@proceedings.com)  
Web: [www.proceedings.com](http://www.proceedings.com)

# Contents

<b>Monday Morning</b> .....	<b>1</b>
Plenary Lectures .....	1
Suspension and Multiphase Fluids .....	1
Viscoelastic Flows and Instabilities.....	3
Rheology of Solids and Near-Solids.....	5
Microrheology, Microfluids and MEMS .....	7
<b>Monday Afternoon</b> .....	<b>11</b>
Suspension and Multiphase Fluids .....	11
Viscoelastic Flows and Instabilities.....	14
Rheology of Solids and Near-Solids.....	18
Microrheology, Microfluids and MEMS .....	21
<b>Tuesday Morning</b> .....	<b>25</b>
Plenary Lectures .....	25
Suspension and Multiphase Fluids .....	25
Viscoelastic Flows and Instabilities.....	27
Entangled Polymers and Analytical Rheology .....	29
Microrheology, Microfluids and MEMS .....	31
<b>Tuesday Afternoon</b> .....	<b>35</b>
Suspension and Multiphase Fluids .....	35
Viscoelastic Flows and Instabilities.....	38
Entangled Polymers and Analytical Rheology .....	41
Microrheology, Microfluids and MEMS .....	44
Liquid Crystalline Polymers and Self-Assembling Fluids .....	46
<b>Wednesday Morning</b> .....	<b>49</b>
Plenary Lectures .....	49
Suspension and Multiphase Fluids .....	49
Viscoelastic Flows and Instabilities.....	51

Contents

Entangled Polymers and Analytical Rheology .....	53
Liquid Crystalline Polymers and Self-Assembling Fluids .....	55
<b>Wednesday Afternoon .....</b>	<b>59</b>
Suspension and Multiphase Fluids .....	59
Biorheology .....	62
Entangled Polymers and Analytical Rheology .....	66
Liquid Crystalline Polymers and Self-Assembling Fluids .....	69
<b>Thursday Morning.....</b>	<b>73</b>
Suspension and Multiphase Fluids .....	73
Biorheology .....	77
Extensional Rheology .....	81
Liquid Crystalline Polymers and Self-Assembling Fluids .....	84
<b>Poster Session .....</b>	<b>89</b>
<b>Author Index .....</b>	<b>113</b>
<b>Paper Index.....</b>	<b>119</b>

This publication was generated with scripts developed by Albert Co. The contents of this publication were extracted from the database of The Society of Rheology abstract submission web site at <http://www.rheology.org/sorabst/>. Online version is available at <http://www.rheology.org/sor03a/>.