

PUBLICATIONS IN REFEREERED JOURNALS

48. N. Gilra, C. Cohen, R.M. Briber, B.J. Bauer, R. Hedden, A.Z. Panagiotopoulos; "A SANS Study in Strained and Unstrained End-linked Elastomers"; submitted to *Macromolecules*, 12/2000
47. D.L. Ho, R.M. Briber, C.J. Glinka; "Characterization of Modified Clays using Scattering and Microscopy Techniques", accepted in *Chemistry of Materials*, 10/2000
46. R.L. Jones, S.K. Kumar, D.L. Ho, R.M. Briber, T.P. Russell; "Chain Conformation in Ultrathin Films using Small Angle Neutron Scattering", *Macromolecules*, 34(3), 559-567(2001)
45. S. Choi, R.M. Briber, B.J. Bauer, D.-W. Liu, M. Gauthier; "Small Angle Neutron Scattering of Blends of Arborescent Polystyrenes", *Macromolecules*, 33(17), 6495-6501(2000)
44. J. Gao, G.C. Walsh, D.I. Bigio, R.M. Briber, M.D. Wetzl, "A Residence Time Distribution Model for Screw Extruders", *AIChE Journal*, 45(12), 2541-2549(1999)
43. S. Choi, R.M. Briber, A. Topp, B.J. Bauer, M. Gauthier, L. Tichagwa, "Small Angle Neutron Scattering of Solutions of Arborescent Graft Polystyrenes", *Macromolecules*, 32(23), 7879-7886(1999)
42. R.L. Jones, S.K. Kumar, D.L. Ho, R.M. Briber, T.P. Russell, "Chain Conformation in Ultrathin Polymer Films", *Nature*, 400, 146(1999)
41. J. Gao, G.C. Walsh, D.I. Bigio, R.M. Briber, M.D. Wetzl, "Mean Residence Time Analysis for Twin Screw Extruders", *Polymer Engineering and Science*, 40, 227(2000)
40. D. L. Ho, R. M. Briber, R. L. Jones, S. K. Kumar, T.P. Russell, "Small Angle Neutron Scattering Studies on Thin Films of Isotopic Polystyrene Blends", *Macromolecules*, 31(26), 9247(1998)
39. J.S. Fodor, R.M. Briber, T.P. Russell, K.R. Carter, J.L. Hedrick, R.D. Miller, "Non-Uniform Composition Profiles in Thin Film Polymeric Nanofoams", *Polymer*, 40:10, (2547)1999
38. J.L. Hedrick, K.R. Carter, J.W. Labadie, R.D. Miller, W. Volksen, C.J. Hawker, D.Y. Yoon, T.P. Russell, J.E. McGrath, R.M. Briber, "Nanoporous Polyimides", *Progress in Polyimide Chemistry II*, 141, (1)1999
37. S. Choi, X. Liu, R.M. Briber; "Small Angle Scattering of Polymer Blends of Polyvinylmethylether at Dilute Concentration in Deuterated Polystyrene", *J. of Polymer Science, Polymer Physics Edition*, 36, 1(1998)

R.M. Briber

36. J.Y. Cheng, Y. Xie, D.I. Bigio, R.M. Briber; "Slip Flow in a Partially Filled Screw Channel" *Journal of Reinforced Plastics and Composites*, 17(8), 712(1998)
35. J.Y. Cheng, D.I. Bigio, R.M. Briber; "Shear Effect on the Devolatilization of Filled Polymers", *J. of Vinyl & Additive Technology*, 4(1), 45(1998)
34. J.S. Fodor, R.M. Briber, T.P. Russell, K.R. Carter, J.L. Hedrick, R.D. Miller, "Transmission Electron Microscopy of 3F/PMDA Polyimide-Polypropylene Oxide Triblock Copolymer Based Nanofoams", *J. of Polymer Science: Polymer Physics Edition*, 35, 1067(1997)
33. X. Liu, B.J. Bauer, R.M. Briber; "The Conformation of Free Linear Polymer Chains in a Polymer Network", *Macromolecules*, 30(16), 4704(1997)
32. M. Benmouna, R.M. Briber, B. Hammouda; "Polymer Blends, Copolymers and Networks. Scattering Properties and Phase Behavior", *Macromolecular Theory and Simulations*, 6, 197(1997)
31. N.C. Beck-Tan, S.K. Tai, R.M. Briber; "Morphology Control and Interfacial Reinforcement in Reactive Polystyrene/Amorphous Polyamide Blends", *Polymer*, 37(16), 3509(1996)
30. N.C. Beck-Tan, D.G. Peiffer, R.M. Briber; "Reactive Reinforcement of Polystyrene/Poly(2-vinyl pyridine) Interfaces", *Macromolecules*, 29(14), 4969(1996)
29. R.M. Briber, X. Liu, B.J. Bauer; "The Collapse of Free Polymer Chains in a Network", *Science*, 268, 395(1995)
28. E.A. Di Marzio, R.M. Briber; "Collapse of a Polymer in a Polymeric Solvent", *Macromolecules* 28, 4020(1995)
27. N.C. Beck Tan, X. Liu, D.G. Peiffer, R.M. Briber; "A Study of Compatibility In the System Polystyrene/Sulfonated Polystyrene", *Polymer*, 36(10), 1969(1995)
26. R.M. Briber, B.J. Bauer, B. Hammouda, "Small Angle Neutron Scattering from Dilute Blends of Deuterated Polystyrene in Polyvinylmethylether and Protonated Polystyrene)", *J. Chem. Phys.*, 101(3), 2592(1994)
25. X. Liu, R.M. Briber, B.J. Bauer, "Electron Beam Crosslinking of Polyvinylmethylether, *J. Polymer Science: Polymer Physics Edition*, 32, 811(1994)
24. N.C. Beck Tan, R.M. Aiken, R.M. Briber; "Fracture Toughness of Discontinuously Reinforced Al-4Cu-1.5Mg/TiB₂ Composites", *Metall. and Materials Trans. A*, 25A, 2461(1994)

R.M. Briber

23. X. Zheng, Z. Zhao, M.H. Rafailovich, J. Sokolov, R.M. Briber, S.A. Schwarz, "Diffusion of Linear Deuterated Polystyrene Chains In Crosslinked Polystyrene Networks", *Macromolecules*, 26, 6431(1993)
22. H. Jinnai, H. Hasegawa, T. Hashimoto, R.M. Briber, C.C. Han, "Effect of Crosslinks on the Miscibility of a Deuterated Polybutadiene and Protonated Polybutadiene Blend", *Macromolecules*, 26, 182(1993)
21. R.M. Briber, F. Khoury, "The Morphology of PVF₂ Crystallized from Blends of PVF₂ and PEA", *Journal of Polymer Science, Physics Edition.*, 31, 1253(1993)
20. B. Hammouda, R.M. Briber, B.J. Bauer, "Small Angle Neutron Scattering from Deuterated Polystyrene / Protonated Polystyrene / Poly(vinyl methyl ether) Blends", *Polymer Communications*, 33, 1785(1992)
19. D.L. Vanderhart, G.C. Campbell, R.M. Briber, "Phase Separation Behavior Blends of Polybenzimidazole and Polyetherimide", *Macromolecules*, 25, 4734(1992)
18. R.M. Briber, B.J. Bauer, "Small Angle Neutron Scattering of Blends of Crosslinked and Linear Polystyrene", *Macromolecules*, 24, 1899(1991)
17. R.M. Briber, "Small Angle Neutron Scattering Studies of Blends of Protonated Linear Polystyrene with Crosslinked Deuterated Polystyrene", in Molecular Based Polymer Composites, edited by D.W. Schaefer and J.E. Mark, *Materials Research Society Symposium Proceedings, Volume 171*, Materials Research Society, Pittsburgh, PA, 1990
16. R.M. Briber, B.J. Bauer, "The Effect of Crosslinks on the Phase Separation Behavior of a Compatible Polymer Blend", *Macromolecules*, 21, 3296(1988)
15. B.J. Bauer, R.M. Briber, C.C. Han, "SANS Studies of Compatible Blends of Poly(vinylmethylether) and Crosslinked Deuterated Polystyrene", *Macromolecules*, 22, 940(1989)
14. J.R. Quay, Z. Sun, J. Blackwell, R.M. Briber, E.L. Thomas, "The Hard Segment Unit Cell for MDI-BDO Based Polyurethane Elastomers", *Polymer*, 31, 1003(1990)
13. R.M. Briber, P. Sung, J.D. Barnes, "Small Angle X-Ray Study of the Deformation of MDI/BDO Based Polyurethanes", *National Institute of Standards and Technology Internal Report (NISTIR 88-3873)*, October 1988
12. N. Ding, E.J. Amis, R. Salovey, R.M. Briber, "Preparation of Homogeneous Polymer Nuclei", *J. Polym. Sci., Lett. Ed.*, 27, 489(1989)
11. R.M. Briber, F. Khoury, "The Phase Diagram and Morphology of PVF₂/PEA Blends", *Polymer*, 28, 38(1987)

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10. R.M. Briber, F. Khoury, "Applications of Electron Energy Loss Spectroscopy to Polymers", *J. Polym. Sci., Polym. Phys. Ed.*, 26, 621(1986)
9. R.M. Briber, P. Sung, "WAXS Study of the Deformation MDI/BDO Based Polyurethanes", *Polymer Communications*, 28(6), 161(1987)
8. C.K. Chiang, B.J. Bauer, R.M. Briber, G.T. Davis, "Synthesis of Ionic Conducting Interpenetrating Polymer Networks", *Polymer Communications*, 28, 34(1987)
7. R.M. Briber, E.L. Thomas, "The Crystal Habit and Morphology of Polybutylene Terephthalate and Related Copolymers", *Polymer*, 27, 66(1986)
6. R.M. Briber, E.L. Thomas, "The Structure of MDI/BDO Based Polyurethanes: Diffraction Studies on Model Compounds and Oriented Thin Films", *J. Polym. Sci., Polym. Phys. Ed.* 23, 1915(1985)
5. R.M. Briber, E.L. Thomas, "The Crystallization Behavior of Random Block Copolymers of Polybutylene Terephthalate and Polytetramethylene Ether Glycol", *Polymer*, 26, 8(1985)
4. W.W. Adams, R.M. Briber, E.S. Sherman, R.S. Porter, E.L. Thomas, J.S. Lin, "Microstructure of High Modulus Solid State Extruded Polyethylene II: X-ray Scattering Studies", *Polymer*, 26, 17(1985)
3. R.M. Briber, E.L. Thomas, "The Investigation of Two Crystal Forms in MDI/BDO Based Polyurethanes", *J. Macromol. Sci.-Physics*, 22(4), 509(1983)
2. C.H.Y. Chen, R.M. Briber, E.L. Thomas, M. Xu, W.J. MacKnight, "Structure and Morphology of Segmented Polyurethanes II: Influence of Reactant Incompatibility", *Polymer*, 24, 1333(1983)
1. A.L. Chang, R.M. Briber, E.L. Thomas, R.J. Zdrahala, F.E. Critchfield, "A Morphological Study of the Structure Developed During the Polymerization of a Series of Segmented Polyurethanes", *Polymer*, 23, 1060(1982)

BOOKS

1. "Morphological Control of Multiphase Polymer Mixtures", edited by R.M. Briber, C.C. Han and D.G. Peiffer, MRS Symposium Proceedings Series, volume 461, Fall 1996 meeting, Boston, MA ISBN: 1-55899-365-7

CHAPTERS IN BOOKS

5. R.M. Briber, "Linear Chains in Networks", article for the *Encyclopedia of Materials: Science and Technology*, Edited by K.H. Jergen, R.W. Cahn, M.C. Flemings, B. Ilschner, E.J. Kramer and S. Mahajan, published by Pergamon Press, in proof 3/2001
4. D. L. Ho, R. M. Briber, and C. J. Glinka; "Studies of Organically Modified Clays by Scattering Techniques", submitted to "ACS Symposium Series: Polymer Nanocomposites" edited by R. Krishnamoorti and R. Vaia, 9/2000
3. "Introduction to Engineering Design" Text for ENES 100, T.M. Regan, R. M. Briber, J.W. Dally, W.W. Destler, J.M. Fines, W.L. Fourney, L.L. Gasner, W.G. Lawson, P.A. Minderman, Jr., F.W. Mowrer, C.C. Stevens, C.D. Striffler, R. Windblade, McGraw-Hill, NY, 1996, 1995, 1994, ISBN: 0-07-052198-0
2. B.J. Bauer, R.M. Briber, B. Dickens, "Studies of Grafted Interpenetrating Polymer Networks", Interpenetrating Polymer Networks, Advances in Chemistry Series 239, D. Klemperer, L.H. Sperling, L.A. Utracki, editors, American Chemical Society, 179-204, 1995
1. B.J. Bauer, R.M. Briber, "The Effect of Crosslink Density on Phase Separation in Interpenetrating Polymer Networks", Advances in Interpenetrating Polymer Networks, volume 4, edited by H. Frisch and D. Klemperer, Technomic Publishing, Lancaster, PA, 1994

PAPERS IN REFEREERED PROCEEDINGS

9. R.M. Briber, J.S. Fodor, T.P. Russell, R.D. Miller, K.R. Carter and J.L. Hedrick; "Characterization of Thin Polymeric Nanofoam Films by Transmission Electron Microscopy and Small Angle Neutron Scattering" in "Morphological Control of Multiphase Polymer Mixtures", edited by R.M. Briber, C.C. Han and D.G. Peiffer, MRS Symposium Proceedings Series, volume 461, Fall 1996 meeting, Boston, MA
8. R.M. Briber, D.I. Bigio, J. Lochary; "Integration of Manufacturing into the Undergraduate Polymer Engineering Curriculum", *Proceedings of the 1996 ABET Annual Conference on Innovation in Engineering Education*
7. J. Cheng, D.I. Bigio, R.M. Briber; "Devolatilization of Filled Polymeric Materials: I- Batch Study" *Proceedings of SPE ANTEC 1996*, page 365-369.
6. R.M. Briber, D.I. Bigio, J. Lochary; "Integration of a Manufacturing Experience into the Undergraduate Curriculum in Polymer Engineering", *Proceedings of 1996 American Society of Engineering Education*

R.M. Briber

5. J.G. Barker, A.M. Mayes, R.M. Briber, B. Orts; "Scaling of The Radius of Gyration with Concentration", *Proceedings of the Materials Research Society*, Vol. 376, Neutron Scattering in Materials Science, 1994
4. X. Liu, B.J. Bauer, R.M. Briber, "Collapse of Isolated Chains in a Network", *Proceedings of the Materials Research Society*, 1994
3. P. Sung, R.M. Briber, Characterization of the Morphology of MDI/BDO Based Polyurethanes, *Proceedings of the Fourth World Biomaterials Congress*, Berlin, Germany, 4/92
2. B.J. Bauer, R.M. Briber, S. Malone, C. Cohen, "Small Angle Neutron Scattering Studies of Single Phase IPNS", *Proceedings of the Materials Research Society, Symposium on Submicron Multiphase Materials*, 1992
1. X. Zhao, W. Zhao, J. Sokolov, M.H. Rafailovich, H.D. Gafney, R.M. Briber, B.J. Wilkins, "Diffusion of Polymers in Crosslinked Networks", *Proceeding of the Materials Research Society, Symposium on the Dynamics of Small Confining Systems*, 1990

PAPERS IN PROCEEDINGS

22. D.L. Ho, R.M. Briber, C.J. Glinka, "Studies on Organically Modified Clays using Scattering Techniques", *Proceedings of the American Chemical Society, Polymeric Materials: Science and Engineering*, Spring 2000, San Francisco, 82, 268-9 (2000)
21. Kumar SK, Jones RL, Ho DL, Briber RM, Russell TP, "Phase Behavior of Thin Film Polymer Blends", *Abstracts of Papers of the American Chemical Society*, 216, 213 (1998)
20. J. Cheng, D.I. Bigio and R.M. Briber, " Devolatilization of Solid Filled Polymeric Materials: Batch Experiments with Newtonian and Viscoelastic Matrices," *24th Soc. of ABM Conference*, Philadelphia, PA, Oct, 1-2 (1995)
- 19 J. Cheng, D.I. Bigio and R.M. Briber, "Devolatilization of Filled Polymeric Materials," *Polymer Processing Society Conference*, Akron, Ohio, Nov. 14-16 (1995)
18. B.J. Bauer, B. Hammouda, J.D. Barnes, R.M. Briber, D.A. Tomalia, "SANS and SAXS from Solutions of Large Dendrimer Molecules", *Proceedings of the American Chemical Society, Polymeric Materials: Science and Engineering*, 74, 706, 1994
17. X. Liu, B.J. Bauer, R.M. Briber, "Conformation of Linear Chains Trapped in a Network", *Proceedings of the American Chemical Society, Polymeric Materials: Science and Engineering*, 74, 576, 1994

R.M. Briber

16. B.J. Bauer, B. Hammouda, R.M. Briber, D.A. Tomalia, "Small Angle Neutron Scattering from Solutions of Large Dendrimer Molecules", *Proceedings of the American Chemical Society, Polymeric Materials: Science and Engineering*, 69, 1993
15. R.M. Briber, B.J. Bauer, B. Hammouda, D.A. Tomalia, "SANS from Solutions of Dendrimer Molecules: Intermolecular Interactions", *Proceedings of the American Chemical Society, Polymeric Materials: Science and Engineering*, 67, 1992
14. B.J. Bauer, R.M. Briber, B. Hammouda, D.A. Tomalia, "SANS from Solutions for Dendrimer Molecules: Intramolecular Interactions", *Proceedings of the American Chemical Society, Polymeric Materials: Science and Engineering*, 67, 1992
13. R.M. Briber, E. Gholz, S. Wu, "Image Analysis of the Late Stages of Phase Separation in Polymer Blends", *Proceedings of the American Chemical Society, Polymer Preprints*, 33(1), 775(1992)
12. R.M. Briber, B.J. Bauer, "Thermodynamics and Small Angle Scattering of Crosslinked Polymer Mixtures", *Proceedings of the American Chemical Society, Polymer Preprints*, 33(1), 344(1992)
11. R.M. Briber, B.J. Bauer, "Thermodynamics of Complex Polymer Systems", *Physics News* 1991, published by the American Institute of Physics
10. B.J. Bauer, R.M. Briber, B. Dickens, "Studies of Grafted Interpenetrating Polymer Networks", *Proceedings of the American Chemical Society, Polymer Preprints*, Sept. 1991
9. R.M. Briber, "Small Angle Neutron Scattering Studies of Crosslinked Polymer Blends", *Proceedings of the Polymer Science Society of Japan*, Fall meeting 1990
8. B.J. Bauer, R.M. Briber, "Small Angle Neutron Scattering of Studies of Grafted Interpenetrating Polymer Networks", *Proceedings of the American Chemical Society, Polymer Preprints*, 31, 578(1990)
7. M.A. Schen, R.M. Briber, J. Cline, "X-ray Analysis of a Liquid Crystal Phase Diacetylene Polymerization", *Proceedings of the American Chemical Society, Polymer Preprints*, 32, 290(1990)
6. R.M. Briber, "Microanalysis and Electron Energy Loss Spectroscopy of Polymers", *Proceedings of the Annual Meeting of the Electron Microscope Society of America*, 1987
5. R.M. Briber, "Electron Microscopy of Polymer Blends", *Proceedings of the Annual Meeting of the Electron Microscope Society of America*, 1987

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4. B.J. Bauer, R.M. Briber, C.C. Han, "Small Angle Neutron Scattering Studies of Single Phase Interpenetrating Polymer Networks", *Proceedings of the American Chemical Society, Polymer Preprints*, 28(2), 169(1987)
3. R.M. Briber, F. Khoury, "The Phase Diagram and Morphology of Blends of PVF₂ and PEA", *Proceedings of the American Chemical Society, Polymer Preprints*, 26(2), 310(1985)
2. R.M. Briber, "The Identification and Characterization of Two Crystal Forms in MDI/BDO Based Polyurethanes by STEM, TEM and Microdiffraction", *Proceedings of the Electron Microscope Society of America*, 1982, p. 674, Presidential Scholarship Award Winning Paper
1. A.L. Chang, R.M. Briber, E.L. Thomas, "Morphological Studies of PPO-EO/MDI/BDO Based Segmented Urethanes", *Proceedings of the American Chemical Society, Polymer Preprints*, 22(2), 301(1981)

STUDENT THESES

Choi, Sangwook, "Small Angle Neutron Scattering of Polymer Solutions and Blends", Ph.D., Dept. of Materials and Nuclear Engineering, University of Maryland, 1999

Ho, Li-Te; "Polymer Chain Conformation and Thermodynamics in Confined Geometries", Ph.D., Dept. of Materials and Nuclear Engineering, University of Maryland, 1998

Biswas, Saswati; "Morphology Study of Block Copolymer/Homopolymer Blends", M.S., Dept. of Materials and Nuclear Engineering, University of Maryland, 1995

Liu, Xiaodu; "Phase Separation and Chain Conformation in Crosslinked Polymer Blends", Ph.D., Dept. of Materials and Nuclear Engineering, University of Maryland, 1995

Beck-Tan, Nora; "Reactive Compatibilization in Immiscible Polymer Blends", Ph.D., Dept. of Materials and Nuclear Engineering, University of Maryland, 1994

CONFERENCES ORGANIZED

Session Chair at 1-2 conferences per year, typically APS, ACS or Gordon Conferences

Soft Materials and Structural Biology Breakout Session at the SNS Users Meeting in May 2000, Washington, DC

SNS LWTS Polymers, Colloids & Biology Workshop April 2000 at University of Maryland, College Park, MD

R.M. Briber

“Morphological Control of Multiphase Polymer Mixtures”; MRS Symposium Fall 1996 meeting, Boston, MA

INVITED TALKS

IUPAC Macro2000, Warsaw, Poland, July 2000

Virginia Tech, Dept. of Materials Science and Eng., Blacksburg, VA, March 2000

Army Research Lab, Aberdeen, MD April 1999

Institute for Physical Sciences, University of Maryland, December 1998

National Academy of Sciences/National Research Council Committee on Developing a Federal Materials Facilities Strategy, Irvine CA, November 1998

Howard University, Department of Chemistry, Washington, DC October 1998

American Chemical Society Meeting in Nashville, TN September 1998

NIST Center for Neutron Research Gaithersburg, MD, Short Course on Applications of Cold Neutrons, June 1998

Materials Research Society Meeting, San Francisco, CA, March 1997

Department of Chemical Engineering, Columbia University, New York, NY, September 1996

Cold Neutron Research Facility, NIST, Gaithersburg, MD, Short Course on Applications of Cold Neutrons, June 1996

University of Delaware, Department of Chemical Engineering, Newark, DE April 1996

IBM Almaden Research Center, San Jose, CA February 1996

Cold Neutron Research Facility, NIST, Gaithersburg, MD, Short Course on Applications of Cold Neutrons, August 1995

American Physical Society, San Jose, CA March 1995

Army Office of Research, Dendrimer Technology Workshop Research Triangle, North Carolina March 1995

Materials Research Society, Boston, MA, November 1994

R.M. Briber

Intense Pulsed Neutron Source, Argonne National Lab, Argonne, IL September 1994

Exxon Research and Engineering, Annadale, NJ May 1994

Reactor Radiation Division, National Institute of Standards and Technology, Gaithersburg, MD April 1994

Chemical Physics Program, University of Maryland,. College Park, MD January 1994

Chemical Engineering Department, University of Maryland, College Park, MD February 1994

Sandia National Laboratory, Albuquerque, NM September 1993

Du Pont, Central Research, Wilmington, DE, October 1992

American Chemical Society, Washington, D.C., August 1992

NSF-CNRS U.S. France Workshop on High Performance Polymers, Annecy, France, June 1992

American Chemical Society, San Francisco, CA, April 1992

Queens College, Department of Physics, Flushing, NY, February, 1992

North Carolina State University, Department of Materials Science and Engineering, Raleigh, NC, April 1991

American Physical Society, Cincinnati, OH, March 1991

Polymer Science Society of Japan, Nagoya, Japan, October 1990

Cornell University, Department of Materials Science and Engineering, October 1990.

Materials Research Society Meeting, Boston, MA, December 1989

University of Chicago, James Franck Institute Colloquium, Chicago, IL, October 1989

The Goodyear Tire and Rubber Company, Akron, OH, May 1989

Polymers-West Gordon Research Conference, Ventura, CA, January 1989

University of Illinois, Department of Materials Science and Engineering, Urbana-Champaign, IL, September 1988

R.M. Briber

Northwestern University, Department of Materials Science and Engineering, Evanston, IL, May 1988

Electron Microscope Society of America, Annual Meeting, Baltimore, MD, August 1987

Polymers-West Gordon Research Conference, Santa Barbara, CA, January 1986

American Chemical Society, Chicago, IL, September 1985

Eastman Kodak Company, Rochester, NY, May 1985

Electron Microscopy Workshop on Polymers, Sponsored by the Univ. of Mass. and JEOL USA, Boston, MA, June 1985

Case Western Reserve University, Department of Macromolecular Science, Cleveland OH, May 1985

Brown University, Department of Engineering, Providence RI, April 1985

University of Minnesota, Department of Chemical Engineering and Materials Science, Minneapolis, MN, February 1985

The Johns Hopkins University, Department of Materials Science, Baltimore, MD, February 1985

Du Pont, Central Research, Wilmington, DE, November 1984

Princeton University, Department of Chemical Engineering, Princeton, NJ, November 1984

Rutgers University, Department of Mechanics and Materials Engineering, New Brunswick, NJ, October 1984

CONTRIBUTED TALKS

Approximately 2-3 contributed talks per year at national meetings.

HONORS AND AWARDS

Associate Editor, *Journal of Polymer Science, Polymer Physics Edition*

Exxon Educational Foundation Recipient, 1996-97

Fellow, American Physical Society, 1995

Department of Commerce Bronze Medal, December 1990

NRC-NBS Postdoctoral Research Associate 1984-85

R.M. Briber

Electron Microscope Society of America Presidential Scholarship, 1982
Alpha Sigma Mu, National Materials Science Honor Society

MEMBERSHIP

American Physical Society, member Fellow (elected 1995)
Neutron Scattering Society of America, Vice President 6/99 to present
Materials Research Society, member
American Chemical Society, member
Society of Plastics Engineers, member

NIST Center for Neutron Research Program Advisory Committee, member 1999

Large Length Scales Working Group, Spallation Neutron Source, Oak Ridge National Lab, Dept. of Energy, November 1998

Basic Energy Science Advisory Committee Review of the High Flux Isotope Reactor at Oak Ridge National Lab, October 1998

Scheduling Committee, American Physical Society, Division of High Polymer Physics March Meeting, 1994-1998

University of Chicago Review Committee for the Intense Pulsed Neutron Source at Argonne National Laboratory 1997, 1999

Los Alamos -Argonne National Laboratory Pulsed Neutron Source Program Advisory Committee 1993-1997 (Chair 1996-97)

Society of Plastics Engineers (SPE) Research Award Committee, 1994-1997

American Physical Society Division of High Polymer Physics Nominations Committee

NASA Microgravity Research Review Panel for Polymers, 1995, 1997