

Curriculum Vitae

Ica Manas-Zloczower

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Education

1979-1983 Technion- Israel Institute of Technology, Department of Chemical Engineering, Thesis Advisor- Professor Zehev Tadmor, Degree awarded: Doctor of Science, May 1983
 1966-1971 Polytechnic Institute, Jassy, Romania, Department of Chemical Engineering, Degree awarded: B.S. and M.S., June 1971

Professional Experience

3/2008-present Associate Dean of Faculty Development, Case School of Engineering, Case Western Reserve University
 7/1994-present Professor of Macromolecular Science and Chemical Engineering, Department of Macromolecular Science, Case Western Reserve University
 7/1990-6/1994 Associate Professor of Macromolecular Science and Chemical Engineering, Department of Macromolecular Science, Case Western Reserve University
 8/1985-6/1990 Assistant Professor, Department of Macromolecular Science, Case Western Reserve University
 9/1983-7/1985 Visiting Assistant Professor, Department of Chemical Engineering, University of Minnesota, Post-doctoral Advisor- Professor Christopher Macosko
 2/1979-10/1979 Research Fellow, Department of Chemical Engineering, Technion - Israel Institute of Technology.
 1971-1978 Research Fellow, Research Institute of Chemistry, Bucharest, Romania.

AWARDS AND RECOGNITION

- President –Elect, Polymer Processing Society, Spring 2009
- Mather Spotlight Series Prize for Women' s Scholarship, 2009

- 2009 Outstanding Faculty Member award from the Interfraternity Congress and Panhellenic Council of Case Western Reserve University
- Fellow- Society of Plastics Engineers Spring 2006.
- Member-at-Large in the Polymer Processing Society Executive Committee, 2005-2009.
- Editor-in Chief for the Journal of Polymer Engineering since January 1999.
- Elected chairman of the Gordon Research Conference on Computer Aided Engineering in Polymer Processing for 2007.
- International representative for the Americas in the Polymer Processing Society Executive Committee (1994-2005).
- Nominee 2004 B. Jackson Award for Excellence in Undergraduate Mentoring
- Elected to the Board of Directors of Extrusion Division of the Society of Plastics Engineers in May 2000.
- Gutwirth Award for Outstanding Research Assistants, Technion, 1983.
- Gutwirth Award for Outstanding Research Assistants, Technion, 1982.
- Fellowship for Outstanding Students, Polytechnic Institute, Jassy, Romania, 1969-1971.

PROFESSIONAL ACTIVITIES AND SERVICE

Professional Associations

American Institute of Chemical Engineers
 Polymer Processing Society
 American Chemical Society
 Society of Plastics Engineers
 Society of Rheology

Professional Service Activities

Editor of a book on "Mixing and Compounding-Theory and Practice", Hanser Gardner Publications, 2009
 Editor-in Chief, Journal of Polymer Engineering since 1999
 Editorial Board of the Journal of Plastics Technology since 2008
 Technical co-chairman of the Polymer Processing Society annual meeting in June 2004
 Symposium Organizer at the AIChE Meeting, Dallas, TX, 1999
 Symposium Organizer at the Society of Rheology Meeting, Columbus, OH, 1997
 Symposium Organizer at the PPS Meeting, Secaucus, NJ, 1997
 Chairman of the AIChE/PPS First Joint Topical Conference on Processing, Structure and Properties of Polymeric Materials, Chicago, IL, 1996
 Symposium Organizer at the PPS Meeting, Morgantown, WV, 1993
 Symposium Organizer at the SPE-ANTEC Meeting, Montreal, Canada, 1991
 Editor of a book on "Mixing and Compounding-Theory and Practice", Hanser Verlag Publisher, 1994
 Panel review member for NSF

2006 NSF-DMI Committee of Visitors

External international expert for the Foundation of Science and Technology – Portugal since 2003

Book Advisory Board for Hanser Gardner Publications since April 2001.

Proposal reviewer for NSF, PRF, DOE, NSERC-Canada

Manuscripts reviewer for AICHE Journal, Journal of Rheology, Polymer Science and Engineering, International Polymer Processing, Macromolecules, Chemical Engineering and Science, Journal of Non-Newtonian Fluid Mechanics, Powder Technology, Rubber Chemistry and Technology

Assessment of peers' performance for promotion and tenure at various national and international institutions

Refereed Journals

1. M. Camesasca, I. Manas-Zloczower, 2009, “Danckwerts Revisited- The Use of Entropy to Define Scale and Intensity of Segregation”, *Macromolecular Theory and Simulations*, 18, 87-96. -**Cover Page Article.**
2. L. Bava, D. L. Feke, I. Manas-Zloczower, S. J. Rowan, 2008, “Temperature Controlled Dispersion of Poly(N-Isopropyl Acrylamide) Treated Silica Clusters”, *Rubber Chemistry and Technology*, 81(5), 809-821.
3. L. Bava, D. L. Feke, I. Manas-Zloczower, S. J. Rowan, 2008, “Control of Particle Cluster Dispersion using Responsive Polymeric Additives”, *Journal of Colloid and Interface Science*, 319, 160-168.

4. P. V. Gopalkrishnan, I. Manas-Zloczower, D. L. Feke, 2008, "Modeling Time-Dependent Forces on Liquid Bridge Interactions Between Dissimilar Particles", *Advanced Powder Technology*, Volume 19 (3), 277-292.
5. R. L. Warley, D. L. Feke and I. Manas-Zloczower, 2007, "Transient Effects in Dynamic Modulus Measurement of Silicone Rubber, Part 2 – Effect of Mean Strains and Strain History" *Journal of Applied Polymer Science*, 104, 2197-22047.
6. P. V. Gopalkrishnan, I. Manas-Zloczower, D. L. Feke, 2007, "Effect of Morphology and Extent of Infiltration on the Cohesivity and Dispersion Mechanisms of Particle Agglomerates", *Chemical Engineering and Science*, 62 (14), 3740-3747.
7. P. V. Gopalkrishnan, I. Manas-Zloczower, D. L. Feke, 2007, "Analysis of Binder-Induced Forces within Deforming Particle Clusters", *Powder Technology*, submitted.
8. M. Camesasca, M. Kaufman and I. Manas-Zloczower, 2006, "Staggered Passive Micromixers with Fractal Surface Patterning", *Journal of Micromechanics and Microengineering*, 16, 2298-2311.
9. M. Camesasca, M. Kaufman and I. Manas-Zloczower, 2006, "Quantifying Mixing of Fluids with the Shannon Entropy", *Macromolecular Theory and Simulations*, 15, 595-607 -**Feature article**.
10. M. Fanelli, D. L. Feke and I. Manas-Zloczower, 2006, "Modelling the dynamics of dispersion of particle clusters in the nano-scale", *Plastics, Rubber & Composites: Macromolecular Engineering*, 35(5), 185-197.
11. M. Fanelli, D. L. Feke and I. Manas-Zloczower, 2006, "Prediction of the dispersion of particle clusters in the nano-scale - Part II, unsteady shearing responses", *Chem. Eng. Sci.*, Volume 61, 4944-4956.
12. M. Fanelli, D. L. Feke and I. Manas-Zloczower, 2006, "Prediction of the dispersion of particle clusters in the nano-scale - Part I: Steady shearing responses", *Chem. Eng. Sci.*, 61, 473-488.
13. M. P. Braisted, L. Cirjak, D. L. Feke, I. Manas-Zloczower, 2006, "Technical Note: Characterization of Sub-Micron Perovskite Suspensions Formed through Cavitation Processing", *Particle and Particle Systems Characterization*, 23, 480-483.
14. M. Camesasca, I. Manas-Zloczower and M. Kaufman, 2005, "Entropic characterization of mixing in microchannels", *Journal of Micromechanics and Microengineering*, 15, 2038-2044.

15. R. L. Warley, D. L. Feke and I. Manas-Zloczower, 2005, "Transient Effects in Dynamic Modulus Measurement of Silicone Elastomers: Part 1 – Zero Mean Strain Measurements" *Journal of Applied Polymer Science*, 98, 1001-1009.
16. R. L. Warley, D. L. Feke, and I. Manas-Zloczower, 2005, "Effect of Peroxide Crosslinking on the Dynamic Modulus of Silicone Rubber", *Journal of Applied Polymer Science*, 97(4), 1504-1512.
17. K. Alemaskin, I. Manas-Zloczower and M. Kaufman, 2005, "Color Mixing in the Metering Zone of a Single Screw Extruder: Numerical Simulations and Experimental Validation", *Polymer Engineering and Science*, 45(7), 1011-1020.
18. P. Gopalkrishnan, I. Manas-Zloczower, D. L. Feke, 2005, "Investigating Dispersion Mechanisms in Partially Infiltrated Agglomerates: Interstitial Fluid Effects", *Powder Technology*, Volume 156, Issues 2-3, Pages 111-119.
19. W. Wang, I. Manas-Zloczower and M. Kaufman, 2005, "Influence of initial conditions on distributive mixing in a twin flight single screw extruder", *Chemical Engineering Communications*, Vol. 192, No. 6, 749-757.
20. W. Wang, I. Manas-Zloczower and M. Kaufman, 2005, "Entropy Time Evolution in a Twin Flight Single Screw Extruder and its Relationship to Chaos", *Chemical Engineering Communications*, Vol. 192, No. 4, 405-423.
21. J. Boyle, I. Manas-Zloczower and D. L. Feke, 2005, "Hydrodynamic Analysis of the Mechanisms of Agglomerate Dispersion", *Powder Technology*, 153(2), 127-133.
22. A. Scurati, D.L. Feke, and I. Manas-Zloczower, 2005, "Analysis of the Kinetics of Agglomerate Erosion in Simple Shear Flows," *Chemical Engineering Science*, 60, 6564-6573.
23. K. Alemaskin, I. Manas-Zloczower and M. Kaufman, 2004, "Entropic Analysis of Color Homogeneity", *Polymer Engineering and Science*, 45(7), 1031-1038.
24. M. Camesasca, I. Manas-Zloczower and M. Kaufman, 2004, "Influence of the Extruder Geometry on Laminar Mixing: Entropic Analysis", *Plastics, Rubber & Composites: Macromolecular Engineering*, 33(9/10), 372-376.
25. K. Alemaskin, I. Manas-Zloczower and M. Kaufman, 2004, "Index for simultaneous dispersive and distributive mixing characterization in processing equipment", *International Polymer Processing*, Vol. 19, No. 4, 327-334.
26. J. Boyle, I. Manas-Zloczower and D. L. Feke, 2004, "Influence of Powder Morphology and Flow Conditions on the Dispersion Behavior of Fumed Silica in Silicone Polymers", *Particle and Particle Systems Characterization*, Vol. 21, 205-212.

27. N.S. Hudak, I. Manas-Zloczower and D.L. Feke, 2004, "Methodology and Analysis of the Effect of Liquid Infiltration on the Hydrodynamic Dispersion of Silica Aerogel Agglomerates", *Kona-Powder and Particle*, 22, 134-142.
28. N. Nithi-Uthai and I. Manas-Zloczower, 2003, "Numerical Simulation of Sharkskin Phenomena in Polymer Melts", *Journal of Applied Rheology*, Vol. 13, No. 2, 79-86.
29. W. Wang, I. Manas-Zloczower and M. Kaufman, 2003 "Entropic Characterization of Distributive Mixing in Polymer Processing Equipment", *AIChE Journal*, Vol. 49, No. 7, 1637-1644.
30. C. Pomchaitaward, I. Manas-Zloczower and D. L. Feke, 2003, "Lattice Boltzmann Simulation of Capillary Infiltration in Agglomerates and Beds of Fine Particles", *Advanced Powder Technology*, Vol. 14, No.3, 295-313.
31. C. Pomchaitaward, I. Manas-Zloczower and D. L. Feke, 2003, "Investigation of the Dispersion of Carbon Black Agglomerates of Various Sizes in Simple-Shear Flows", *Chemical Engineering Science*, Vol. 58, 1859-1865.
32. N. Nithi-Uthai and I. Manas-Zloczower, 2002, " Numerical Studies of the Effect of Constitutive Model Parameters as Reflecting Molecular Structure on Extrudate Swell", *Journal of Applied Rheology*, Vol. 12, No.5, 252-259.
33. A. Scurati, I. Manas-Zloczower and D. L. Feke, 2002," Influence of Powder Surface Treatment on the Dispersion Behavior of Silica into Polymeric Materials", *Rubber Chemistry and Technology*, Vol. 75, No. 4, 725-739.
34. P. Levresse, I. Manas-Zloczower and D. L. Feke, 2002, "Dispersion Studies of Agglomerates in Steady and Dynamic Flows of Polymeric Materials, *Rubber Chemistry and Technology*, Vol. 75, No. 1, 119-133.
35. W. Wang, I. Manas-Zloczower and M. Kaufman, 2001, "Characterization of Distributive Mixing in Polymer Processing Equipment using Renyi Entropies", *International Polymer Processing*, Vol. 16, No. 4, 315-322.
36. I. Manas-Zloczower, 2001, "Recent Developments in Studying Mixing Efficiency of Polymer Processing Equipment", *Journal of the Society of Rubber Japan*, Vol. 74, No. 2, 46-51.
37. W. Wang and I. Manas-Zloczower, 2001, "Temporal Distributions: A New Tool for the Development of Mixing Indexes for Scale-up of Polymer Processing Equipment", *Polymer Engineering and Science*, vol. 41(6), 1068-1077.
38. P. Levresse, I. Manas-Zloczower and D. L. Feke, 2001, "Hydrodynamic Analysis of Porous Spheres with Infiltrated Peripheral Shells in Linear Flow Fields", *Chemical Engineering and Science* , vol. 56, 3211-3220.

39. J.R.Kim, S.D.Hudson, A.Jamieson, I. Manas-Zloczower and H.Ishida, 2000, "The Influence of Segmental Swelling of an Asymmetric Block Copolymer on the Morphology of Melt-Mixed Immiscible Polymer Blends", *Polymer*, 41(2), 9163-9168.
40. M. Teverovskiy, I. Manas-Zloczower, P. Elemans and G. Rekers, 2000, "Numerical Simulations and Experiments in a Double-Couette Flow Geometry", *International Polymer Processing*, Vol. XV, No. 3. 242-254.
41. J. Ramic, J. C. Stehlin, S. D. Hudson, A. M. Jamieson and I. Manas-Zloczower, 2000, "Influence of Block Copolymer on Droplet Breakup and Coalescence in Model Immiscible Polymer Blends", *Macromolecules*, 33, 371-374.
42. A. J. Ramic, S. D. Hudson, A. M. Jamieson and I. Manas-Zloczower, 2000, "Temporary Droplet-Size Hysteresis in Immiscible Polymer Blends", *Polymer*, 41, 6263-6270.
43. P. Levresse, I. Manas-Zloczower, D. L. Feke , Y. Bomal and D. Bortzmeyer, 1999, "Observation and Analysis of the Infiltration of Liquid Polymers into Calcium Carbonate Agglomerates," *Powder Technology*, 106, 62-70.
44. L. Popovich, D.L.Feke and I. Manas-Zloczower, 1999 "Influence of Physical and Interfacial Characteristics on the Wetting and Spreading of Fluids on Powders", *Powder Technology*, 104, 68-74.
45. D. Nichetti and I. Manas-Zloczower, 1999, "Influence of Molecular Parameters on Material Processability in Extrusion Processes", *Polymer Eng. Sci.*, 36(5), 887-895.
46. H.Cheng and I. Manas-Zloczower, 1998, " Influence of Design on Mixing Efficiency in the Kneading Disc Region of Corotating Twin Screw Extruders", *Journal of Reinforced Plastics and Composites*, vol. 17 (12), 1076-1086.
47. J.R.Kim, A.Jamieson, S.D.Hudson, I. Manas-Zloczower and H.Ishida, 1998, "The Influence of Exothermic Interaction on the Morphology and Droplet Coalescence of a Melt-Mixed Immiscible Polymer Blends Containing a Block Copolymer, *Macromolecules*, 31, 5383-5390.
48. D. Nichetti and I. Manas-Zloczower, 1998, "Viscosity Model for Polydisperse Polymer Melts", *J. Rheol.*, 42(4), 951-970.
49. C.H.Yao and I.Manas-Zloczower, 1998 "Distributive Mixing in an Axial Discharge Continuous Mixer – LCMAX 40 with Various Designs", *International Polymer Processing*, Vol. XIII, No. 4, 334-341.

50. C. H. Yao, I. Manas-Zloczower, R. Regalia and L. Pomini, 1998 "Distributive Mixing in Variable Intermeshing Clearance Mixers: Simulation and Experiments", *Rubber Chem. Technol.*, 71(4), 690-707.
51. C.H. Yao and I. Manas-Zloczower, 1998, "Influence of Design on Dispersive Mixing Performance in an Axial Discharge Continuous Mixer LCMAX-40" *Polymer Eng. Sci.*, 38(6), 936-946.
52. P. Levresse, D.L.Feke and I. Manas-Zloczower, 1998, "Analysis of the Formation of Bound Poly(dimethylsiloxane) on Silica", *Polymer*, 39(17), 3919-3924.
53. H. Cheng and I. Manas-Zloczower, 1998, "Distributive Mixing in Conveying Elements of a ZSK-53 Corotating Twin Screw Extruder", *Polymer Eng. Science*, 38(6), 926-935.
54. H. Yamada, I. Manas-Zloczower and D.L.Feke, 1998, "Observation and Analysis of the Infiltration of Polymer Liquids into Carbon Black Agglomerates", *Chem. Eng. Science*, 53, 1963-1972.
55. H. Yamada, I. Manas-Zloczower and D.L. Feke, 1998, "The Influence of Matrix Viscosity and Interfacial Properties on the Dispersion Kinetics of Carbon Black Agglomerates", *Rubber Chemistry and Technology*, 71, 1-16.
56. Q. Li, D.L. Feke and I. Manas-Zloczower, 1997, "Comparison of Stability and Dispersion Characteristics of Organic Pigment Agglomerates" *Powder Technology*, 92, 17-24.
57. A. Raab, D.L.Feke and I. Manas-Zloczower, 1997, "Influence of Aggregate Structure and Interfacial Chemistry on the Effective Permeability of Fine Particle Clusters", *Journal of Colloidal and Interface Science*, 189, 131-136.
58. C.H. Yao and I. Manas-Zloczower, 1997, "Influence of Design on Mixing Efficiency in a Variable Intermeshing Clearance Mixer", *International Polymer Processing*, XII (2), 92-103.
59. E. Repidonis, D.L.Feke and I. Manas-Zloczower, 1997, "Cohesivity and Colloidal Properties Affecting the Dispersibility of Ni/Sb -Doped TiO₂ Pigments", *Particle and Particle Systems Characterization*, 14(5), 243-250.
60. H. Cheng and I. Manas-Zloczower, 1997, "Study of Mixing Efficiency in Kneading Discs of Co-rotating Twin Screw Extruders", *Polymer Engineering and Science*, 37(6), 1082-1090.
61. H. Cheng and I. Manas-Zloczower, 1997, "Chaotic Features of Flow in Polymer Processing Equipment - Relevance to Distributive Mixing", *International Polymer Processing*, XII (2), 83-91.

62. H. Yamada, I. Manas-Zloczower and D. L. Feke, 1997, "Influence of Matrix Infiltration on the Dispersion Kinetics of Carbon Black Agglomerates", *Powder Technology*, 92, 163-169.
63. I. Manas-Zloczower, 1997, "Analysis of Mixing in Polymer Processing Equipment" *Rheology Bulletin* 66(1), 5-8.
64. C.H. Yao and I. Manas-Zloczower, 1996, "Study of Mixing Efficiency in Roll-Mills", *Polym. Eng. Sci.*, 36, 305-310.
65. I. Manas-Zloczower and Hongfei Cheng, 1996, "Analysis of Mixing Efficiency in Polymer Processing Equipment", *Macromol. Symp.* 112, 77-84.
66. I. Manas-Zloczower, 1996, "Analysis of Mixing Efficiency in Rubber Processing Equipment" *L'Industria Della Gomma-Elastica*, June.
67. F. Bohin, D.L. Feke and I. Manas-Zloczower, 1996, "Analysis of Power Requirements and Dispersion Quality in Batch Compounding Using a Dispersion Model for Single Agglomerates", *Rubber Chemistry and Technology*, 69(1), 1-7.
68. Q. Li, I. Manas-Zloczower and D. L. Feke, 1996, "A Simple Methodology for the Modeling of Carbon Black Aggregate Structure", *Rubber Chemistry and Technology*, 69(1), 8-14.
69. F. Bohin, I. Manas-Zloczower and D. L. Feke, 1996, "Kinetics of Dispersion for Sparse Agglomerates in Simple Shear Flows: Application for Silica Agglomerates in Silicone Polymers", *Chemical Engineering Science*, 51(23), 5193-5204.
70. M. Arellano, I. Michel-Haciski, I. Manas-Zloczower and D. L. Feke, 1996, "Compatibilization of Titanium Dioxide Powders with Non-Polar Media: Adsorption of Anionic Surfactants and its Influence on Dispersion Stability", *Journal of Coatings Technology*, 68(857), 103-112.
71. C. Wang and I. Manas-Zloczower, 1996, "Modeling and Experimental Study of the Flow in a Simplified Cavity Transfer Mixer", *International Polymer Processing*, XI(2), 115-120.
72. Q. Li, D. L. Feke and I. Manas-Zloczower, 1995, "Influence of Aggregate Structure and Matrix Infiltration on the Dispersion Behavior of Carbon Black Agglomerates", *Rubber Chemistry and Technology*, 68(5), 836-842.
73. T. Li, H. Cheng and I. Manas-Zloczower, 1995, "Analysis of Mixing Efficiency a Multi-Cut Transfermix", *Rubber Chemistry and Technology*, 68(5), 773-783.
74. T. Li and I. Manas-Zloczower, 1995, "Evaluation of Distributive Mixing Efficiency in Mixing Equipment", *Chemical Engineering Communications*, Vol. 139, 223-231.

75. T. Li and I. Manas-Zloczower, 1995, "A Study of Distributive Mixing in Counter-rotating Twin Screw Extruders", *International Polymer Processing*, X(4), 314-320.
76. S. Gupta, D. L. Feke and I. Manas-Zloczower, 1995, "Fractionation of Mixed Particulate Solids According to Hardness Using Ultrasonic Standing Wave Fields", *Chemical Engineering Science*, 50, 3275-3284.
77. M. Arellano, I. Manas-Zloczower and D. L. Feke, 1995, "Assessment of the Dispersibility of Surfactant-Treated Titanium Dioxide Powders for Compounding with Polyethylene", *Polymer Composites*, 16(9), 489-494.
78. I. Manas-Zloczower, D. L. Feke, M. Arellano and Y. J. Lee, 1995, "Strategy for the Evaluation and Compatibilization of Particulate Inclusions for Use in Molecular and Macromolecular Media", *Journal of Macromolecular Science, Pure and Applied Chemistry*, A32(8 & 9), 1621-1639.
79. M. Arellano, D. L. Feke and I. Manas-Zloczower, 1995, "Effect of the Surfactant Treatment on the Formation of Bound Polymer on Titanium Dioxide Powders", *Powder Technology*, 84, 117-126.
80. F. Bohin, D. L. Feke and I. Manas-Zloczower, 1995, "Determination of the Infiltration Kinetics of Polymer into Filler Agglomerates by Using Transient Buoyancy Measurements", *Powder Technology*, 83(2), 159-162.
81. Y.-J. Lee, I. Manas-Zloczower and D. L. Feke, 1995, "Analysis of Titanium Dioxide Agglomerate Dispersion in Linear Low Density Polyethylene and Resulting Properties of Compounds", *Polymer Engineering and Science*, 35(12), 1037-1045.
82. F. Bohin, I. Manas-Zloczower and D. L. Feke, 1994, "Penetration of Silicone Polymers into Silica Agglomerates and Its Influence on Dispersion Mechanism", *Rubber Chemistry and Technology*, 67(4), 602-609.
83. H. H. Yang and I. Manas-Zloczower, 1994, "Analysis of Mixing Performance of a Variable Intermeshing Clearance Mixer", *International Polymer Processing*, IX(4), 1-12.
84. I. Manas-Zloczower, 1994, "Studies of Mixing Efficiency in Batch and Continuous Mixers", *Rubber Chemistry and Technology*, 67(3), 504-528.
85. C. C. Wang and I. Manas-Zloczower, 1994, "Flow Field Analysis of a Cavity Transfer Mixer", *Polymer Engineering and Science*, 34(15), 1224-1230.
86. H. Ng, I. Manas-Zloczower, and M. Shmorhun, 1994, "Moldability Studies for the Reaction Injection Molding of Polydicyclopentadiene", *Polymer Engineering and Science*, 34(11), 929-936.

87. H. Ng, I. Manas-Zloczower, and M. Shmorhun, 1994, "Rheokinetic Studies for the Reaction Injection Molding of Polydicyclopentadiene", *Polymer Engineering and Science*, 34(11), 921-928.
88. T. Li and I. Manas-Zloczower, 1994, "Flow Field Analysis of an Intermeshing Counterrotating Twin Screw Extruder", *Polymer Eng. Sci.*, 34(7), 551-558.
89. A. Drakopoulou, D. L. Feke and I. Manas-Zloczower, 1994, "Aggregate Structure: Effect on the Agglomerate Morphology and Cohesivity", *Rubber Chemistry and Technology*, 67(1), 17-26.
90. C. C. Wang and I. Manas-Zloczower, 1994, "3-D Flow Simulations of a Cavity Transfer Mixer", *International Polymer Processing*, IX(1), 46-51.
91. T.H. Wong and I. Manas-Zloczower, 1994, "Two-Dimensional Dynamic Study of the Distributive Mixing in a Banbury Mixer", *International Polymer Processing*, IX, 3-11.
92. Y.J. Lee, D.L. Feke and I. Manas-Zloczower, 1993, "Dispersion of TiO₂ Agglomerates in Viscous Media", *Chemical Engineering and Science*, 48, 3363-3372.
93. T.H. Wong and I. Manas-Zloczower, 1993, "Numerical Studies of Mixing Efficiency in a Banbury Mixer for a Two-Phase System", *Kautschuk + Gummi Kunststoffe*, 46, 639-646.
94. H. Ng and I. Manas-Zloczower, 1993 "Chemorheology of Unfilled and Filled Epoxy Resins", *Polymer Engineering and Science*, 33(4), 211-216.
95. Y. J. Lee, D. L. Feke and I. Manas-Zloczower, 1992, "Characterization of Solvent Interactions with Treated Titanium Dioxide Powders", *Powder Technology*, 73, 139-146.
96. S. W. Horwatt, D. L. Feke and I. Manas-Zloczower, 1992, "The Influence of Structural Heterogeneities on the Cohesivity and Breakup of Agglomerates in Simple Shear Flow", *Powder Technology*, 72, 113-119.
97. H. H. Yang and Ica Manas-Zloczower, 1992, "Flow Field Analysis of the Kneading Disc Region in a Corotating Twin Screw Extruder", *Polymer Engineering and Science*, Vol. 32, No. 19, 1411-1417.
98. H. H. Yang and I. Manas-Zloczower, 1992, "3D Flow Field Analysis of a Banbury Mixer", *International Polymer Processing*, VII(3), 195-204.
99. Y. J. Lee, D. L. Feke and I. Manas-Zloczower, 1992, "Dispersibility Maps for Treated Titanium Dioxide Powders", *Colloids and Surfaces*, 64, 235-244.

100. S.W. Horwatt, I. Manas-Zloczower and D. L. Feke, 1992 "Simulation of the Breakup of Dense Agglomerates in Simple Shear Flows", *Rubber Chemistry and Technology*, 65, 805-821.
101. S. W. Horwatt, I. Manas-Zloczower and D. L. Feke, 1992 "Dispersion Behavior of Heterogeneous Agglomerates at Supercritical Stresses", *Chemical Engineering Science*, 47(8), 1849.
102. C. Q. Song, M. H. Litt and I. Manas-Zloczower, 1992, "Structures of Liquid Crystalline Hydroxypropylcellulose Films Crosslinked under Shear Flow Fields", *Macromolecules*, 25, 2166.
103. S. P. Rwei, D. L. Feke and I. Manas-Zloczower, 1992, "Analysis of Dispersion of Carbon Black in Polymeric Melts and Its Effect on Compound Properties", *Polymer Engineering and Science*, Vol. 32, No. 2, 130-135.
104. D. L. Feke and I. Manas-Zloczower, 1991, "Rupture of Inhomogeneous Spherical Clusters by Simple Flows", *Chemical Engineering Science*, Vol. 46, No. 8, 2153-2156.
105. S. P. Rwei, S. W. Horwatt, D. L. Feke and I. Manas-Zloczower, 1991, "Observation and Analysis of Carbon Black Agglomerate Dispersion in Simple Shear Flows", *International Polymer Processing*, Vol. 6, No. 2, 98-103.
106. S. P. Rwei, D. L. Feke and I. Manas-Zloczower, 1991, "Characterization of Agglomerate Dispersion by Erosion in Simple Shear Flows", *Polymer Engineering and Science*, Vol. 31, No. 8, 558-562.
107. C. Q. Song, M. H. Litt and I. Manas-Zloczower, 1991, "Photoinitiated Crosslinking of Hydroxypropyl Cellulose in the Isotropic and Liquid Crystal States", *Journal Applied Polymer Science*, Vol. 42, 2517-2523.
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Conference Proceedings

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Plenary, Keynote and Invited Presentations

1. I. Manas-Zloczower, 2009, “Thermoresponsive Binders –A Means to Control Fine Particle Dispersion”, APST-One-Advances in Polymer Science and technology, Linz, Austria, July 8-10, 2009 (**keynote lecture**).
2. L. Bava, D. L. Feke, I. Manas-Zloczower, S.J. Rowan, 2009, “Thermoresponsive Binders –A Means to Control Silica Dispersion”, Rubber Division –Centennial Meeting, Akron, May 2009 (**invited lecture**).
3. I. Manas-Zloczower, 2009, “Thermoresponsive Binders –A Means to Control Fine Particle Dispersion”, PPS-25 Annual meeting, Goa, India, March 1-5, 2009 (**plenary lecture**).
4. M. Camesasca, W. Hartt, I. Manas-Zloczower, 2009, “Rheological behavior of high internal phase emulsions in transient and steady flow regimes”, PPS-25 Annual meeting, Goa, India, March 1-5, 2009 (**keynote lecture**).
5. L. Bava, D. L. Feke, I. Manas-Zloczower, S.J. Rowan, 2008, “Use of Thermoresponsive Binders: A Route to Achieve Temperature-Controlled Dispersion of Fine Particle Clusters”, PPS-24, Annual meeting, Salerno, Italy, June 15-19 (**keynote lecture**).
6. I. Manas-Zloczower, 2008, “Entropy and Fractals: A Route to Mixing and Microstructure Analysis in Polymer Processing”, International Colloquium of the Research Institute for Plastics and Rubber, Medellin, Colombia, February 27 - 29, (**keynote lecture**).
7. I. Manas-Zloczower, 2007, “Entropy and Fractals: A Route to Mixing and Microstructure Analysis in Polymer Processing”, 9th Brazilian Polymer Congress, Campina Grande, Paraiba, Brazil, October 7-11 (**plenary lecture**).
8. I. Manas-Zloczower, 2007, “Agglomerate Dispersion – Mechanisms and Modeling”, EUROFILLERS 2007, Zalakaros, Hungary, August 26-30 (**invited lecture**).
9. L. Bava, D. L. Feke, I. Manas-Zloczower, S.J. Rowan, 2007, “Controlling Dispersion Behavior of Fine Particles through Use of Responsive Binders”, PPS-23, Annual meeting, Salvador, Brazil, May 27-31 (**plenary lecture**).
10. L. Bava, D.L. Feke, I. Manas-Zloczower, S. J. Rowan, 2007, “Responsive Binders for Controlling Dispersion Behavior of Silica Clusters”, ACS-Rubber Division Meeting, April 30-May 2 (**invited lecture**).
11. I. Manas-Zloczower, 2006, “Fractal Analysis – A Tool for Microstructure Characterization in Polymer Processing”, PPS Regional meeting, Pretoria, South Africa, October 9-13 (**plenary lecture**).

12. I. Manas-Zloczower, 2005, "Fine Particle Clusters Dispersion – Mechanisms and Modeling", PPS Regional meeting, Quebec City, Canada, August 14-17 (**plenary lecture**).
13. M. Fanelli, D.L. Feke and I. Manas-Zloczower, 2005, "Modeling the Dynamics of Dispersion of Particle Clusters in the Nano-Scale", PPS-21, Annual meeting, Leipzig, Germany, June 19-23 (**keynote lecture**).
14. I. Manas-Zloczower, 2004, "Quantitative analysis of mixing in extrusion processes", SoftEXTRUSION-2004 workshop National Science Foundation, NSF/Luso-American Development Foundation, FLAD, Alvor, Portugal, October 14-18 (**invited presentation**).
15. I. Manas-Zloczower, 2004, "Fundamentals of polymer melt flow in single screw extruders – from analytical modeling to computer simulations", SoftEXTRUSION-2004 workshop National Science Foundation, NSF/Luso-American Development Foundation, FLAD, Alvor, Portugal, October 14-18 (**invited presentation**).
16. I. Manas-Zloczower, 2004, "Entropic Measures of Mixing Tailored for Various Applications", PPS Regional meeting for Asia, Gyeongju, Korea, August 29-September 1 (**keynote lecture**).
17. K. Alemaskin, M. Camesasca, I. Manas-Zloczower and M. Kaufman, 2004, "Entropic Measures of Mixing Tailored for Various Applications", NUMIFORM-2004, Columbus, OH, June 13-16 (**invited lecture**).
18. K. Alemaskin, I. Manas-Zloczower and M. Kaufman, 2002, "Simultaneous characterization of dispersive and distributive mixing in continuous polymer processing equipment", PPS-Regional meeting, Taipei, Taiwan, November 4-8 (**keynote lecture**).
19. I. Manas-Zloczower, W. Wang and M. Kaufman, 2002, "Chaotic Features of Flow in Polymer Processing Equipment – Relevance to Distributive Mixing" PPS-18 Annual Meeting, Guimaraes, Portugal, June 16-20 (**keynote lecture**).
20. I. Manas-Zloczower, A. Scurati and D. L. Feke, 2002, "Factors Affecting Mechanisms and Kinetics of Agglomerate Dispersion", Frontiers in Rubber Science Colloquium, ACS-Rubber Division Meeting, Savannah, GA, April 29-May1 (**invited lecture**).
21. I. Manas-Zloczower, 2001, "Factors Affecting Kinetics of Agglomerate Dispersion and More...", Israel Society of Plastics Engineers" meeting, Tel-Aviv, Israel, December 13 (**plenary lecture**).
22. I. Manas-Zloczower, 2001, "Factors Affecting Mechanisms and Kinetics of Agglomerate Dispersion", Gordon Research Conference on Elastomers, Colby Sawyer, NH,

August 5-10 (**invited lecture**).

23. I. Manas-Zloczower, 2001, "Dynamics of Minor Component Size and Spatial Distributions in Mixing Using Continuous Processing Equipment, Gordon Research Conference on CAE in Polymer Processing, Ventura, CA, March 4-9 (**invited lecture**).
24. I. Manas-Zloczower, 2001, "Mechanisms and Kinetics of Agglomerate Dispersion", Functional Tire Fillers 2001, Fort Lauderdale, FL, January 29-31 (**invited lecture**).
25. I. Manas-Zloczower, 2000, "Factors Affecting Mechanisms and Kinetics of Agglomerate Dispersion", PPS Europe/Africa Regional Meeting, Zlin, Czech Republic, August 16-18 (**keynote lecture**).
26. Manas-Zloczower, 2000, "Analysis of Mixing Efficiency in Processing Equipment through Flow Simulations", 16th PPS Annual Meeting, Shanghai, China, June 18-23 (**keynote lecture**).
27. I. Manas-Zloczower, 2000, "Mechanisms and Kinetics of Agglomerate Dispersion", Frontiers in Rubber Science, ACS Rubber Division Meeting, Dallas, Texas, April 4-6 (**invited lecture**).
28. I. Manas-Zloczower, 1999, "Influence of Structure and Interfacial Properties on Kinetics of Agglomerate Dispersion", 15th PPS Annual Meeting, 'S-Hertogenbosch, Netherlands, May 31 –June 4 (**plenary lecture**).
29. I. Manas-Zloczower, 1998, "Recent Developments in the Modeling of Rubber Mixing", International Rubber Conference, Paris, France, May 12-14 (**plenary lecture**).
30. C.H.Yao and I. Manas-Zloczower, 1997, "Influence of Design on Mixing Efficiency in a VIC Mixer", Rubber Division Meeting, Cleveland, OH, October 21-24 (**invited presentation**).
31. I. Manas-Zloczower, 1997, Gordon Research Conference on CAE in Polymer Processing, Ventura, California, February 16-21 (**invited speaker**).
32. H. Yamada, D. L. Feke and I. Manas-Zloczower, 1996, "Influence of Matrix Infiltration on Agglomerate Dispersibility", 12th Annual PPS Meeting, Sorrento, Italy, May 27-31 (**keynote speaker**).
33. I. Manas-Zloczower, 1996, "Analysis of Mixing Efficiency in Polymer Processing Equipment", European Symposium on Polymer Blends, Maastricht, The Netherlands, May 12-15 (**invited speaker**).
34. F. Bohin, I. Manas-Zloczower and D. L. Feke, 1996, "Analysis of Batch Compounding Using a Dispersion Model for Single Agglomerates", ACS- Rubber Division

Meeting, Montreal, Canada, May 5-8 (**invited presentation**).

35. I. Manas-Zloczower, 1995, "Analysis of Mixing Efficiency in Mixing Equipment", Compounding '95: Advances in Plastics Compounding for Performance and Profits, Philadelphia, Pennsylvania, August 28-29, (**invited presentation**).
36. I. Manas-Zloczower, 1995, Gordon Research Conference on Elastomers, Networks and Gels, New London, New Hampshire, July 23-28 (**invited speaker**).
37. I. Manas-Zloczower, 1995, "The Study of Mixing Efficiency in Polymer Processing Equipment through Simulation", CWRU Research Day, Cleveland, Ohio, April 26 (**invited presentation**).
38. H. H. Yang, C. H. Yao and I. Manas-Zloczower, 1994, "Analysis of Mixing Performance in a VIC Mixer", PPS European Regional Meeting, Strasbourg, France, August 29-31 (**keynote speaker**).
39. I. Manas-Zloczower, 1994, "Studies of Mixing Efficiency in Batch and Continuous Mixers", Advances in Additives and Modifiers for Polymer Blends Conference, Clearwater Beach, Florida, February 23-25 (**invited presentation**).
40. I. Manas-Zloczower, 1987, "Mechanisms of Dispersive Mixing", 44th Research Symposium for Industrial Sponsors, Department of Macromolecular Science, Case Western Reserve University, Cleveland, Ohio, Nov 4-5 (**invited presentation**).
41. I. Manas-Zloczower, A. Nir and Z. Tadmor, 1984, "Dispersive Mixing in Roll-Mills", NRCC-IMRI Symposium "Composites-84", Montreal, Canada, November 20 (**invited presentation**).
42. I. Manas-Zloczower, A. Nir and Z. Tadmor, 1983, "Dispersive Mixing in Rubber and Plastics: A Review", ACS, Rubber Division Meeting, Symposium on Role of Dispersion in Polymeric Systems, Houston, Texas, October 26-27, (**invited presentation**).

Invited Seminars in Academia and Industry

2008	(October)	Iowa State University, Ames, Iowa
2008	(April)	CWRU- Department of Mechanical Engineering
2007	(August)	Goodyear Rubber & Tire Company, Akron, OH
2007	(March)	Colorado State University, Fort Collins, CO
2006	(December)	Chulalongkorn University, Bangkok, Thailand

2006	(October)	University of Illinois, Urbana-Champaign, Ill
2005	(January)	Chulalongkorn University, Bangkok, Thailand
2004	(October)	Bridgestone/Firestone Company, Akron, Ohio
2004	(February)	Oklahoma University, Department of Chemical Engineering, Norman, OK
2003	(October)	Rheology Research Center, University of Wisconsin, Madison, Wisconsin.
2003	(January)	Chulalongkorn University, Bangkok, Thailand
2002	(April)	IFPRI Technical Symposium CWRU, Cleveland, Ohio
2002	(March)	AES-Exxon Mobile Technical Exchange Meeting, Cuyahoga Falls, Ohio
2001	(July)	Bridgestone/Firestone Company, Akron, Ohio
2001	(February)	University of Akron, Department of Polymer Engineering, Akron, Ohio
2000	(October)	Abbot Company, Ashtabula, Ohio
2000	(March)	Dow Chemical Company, Midland, Michigan
1999	(October)	Pirrelli Conference, Milan, Italy
1999	(October)	Laval University, Department of Chemical Engi- neering, Quebec, Canada
1999	(July)	GE, Schenectady, New York
1999	(June)	GE, The Netherlands
1999	(April)	Ohio State University, Department of Chemical Engineering, Columbus, Ohio
1999	(March)	Bridgestone Research Center, Akron, Ohio

1999	(March)	University of Akron, Department of Polymer Engineering, Akron, Ohio
1998	(October)	University of Wisconsin, Department of Mechanical Engineering, Madison, Wisconsin.
1998	(April)	Technion, Department of Chemical Engineering, Haifa, Israel
1998	(March)	West Virginia University, Department of Chemical Engineering, Morgantown, West Virginia
1998	(March)	DuPont Rheology Network, Wilmington, Delaware
1998	(February)	Allied Signal Research Center, Morristown, New Jersey
1997	(December)	Chulalongkorn University, Bangkok, Thailand
1997	(June)	DuPont Experimental Station, Wilmington, Delaware
1997	(April)	Rheology Research Center, University of Wisconsin, Madison, Wisconsin
1997	(April)	3M Company, St. Paul, Minnesota
1997	(February)	California Institute of Technology, Department of Chemical Engineering, Pasadena, California
1997	(February)	Raychem Corporation, Menlo Park, California
1996	(September)	Union Carbide, Weston Canal Center, Somerset, NJ
1996	(September)	Pomini Seminar, University of Akron, Akron, Ohio
1996	(July)	Dow Corning Corporation, Midland, Michigan
1996	(June)	NIST-Industry Consortium Meeting, Washington, D. C.
1996	(January)	Chulalongkorn University, Bangkok, Thailand
1995	(November)	Pomini, Milano, Italy
1995	(October)	University of Kentucky, Department of

		Chemical and Materials Engineering, Lexington, Kentucky
1995	(August)	The Goodyear Tire and Rubber Company, Akron, Ohio
1995	(June)	Technion-Israel Institute of Technology, Department of Chemical Engineering, Haifa, Israel
1994	(November)	Rhone-Poulenc Research Center, Paris, France
1994	(October)	DuPont Experimental Station, Wilmington, Delaware
1994	(June)	Kerr McGee Corporation, Oklahoma City, Oklahoma
1994	(May)	University of Akron, International Symposium on Mixing, Akron, Ohio
1994	(May)	National Institute of Standards and Technology Washington, D.C.
1994	(May)	Quantum, USI Division, Allen Research Center, Cincinnati, Ohio
1994	(February)	Cabot Conference on Dispersion Cambridge, Massachusetts
1994	(January)	Pomini, Milano, Italy
1993	(November)	University of Akron, Akron, Ohio
1993	(November)	Eindhoven University of Technology, Eindhoven, The Netherlands
1993	(July)	5th International Seminar on Elastomers, Akron, Ohio
1993	(June)	Technion-Israel Institute of Technology, Department of Chemical Engineering, Haifa, Israel
1993	(June)	Pomini, Milano, Italy
1993	(May)	Rohm & Haas, Research Laboratories, Bristol,

Pennsylvania

1993	(April)	Dow Europe, Terneuzen, The Netherlands
1993	(March)	University of Akron, International Symposium on Internal Mixers, Akron, Ohio
1993	(January)	Dow Chemical Company, Midland, Michigan
1993	(January)	DuPont Experimental Station, Wilmington, DE
1992	(September)	Rhone-Poulenc Research Center, Lyon, France
1992	(August)	Kerr McGee Corporation, Oklahoma City, OK
1992	(June)	Cabot Corporation, Billerica, Massachusetts
1991	(November)	DuPont Experimental Station, Wilmington, DE
1991	(October)	Bridgestone/Firestone, Akron, Ohio
1991	(September)	Ferro Corporation, Independence, Ohio
1991	(September)	Pomini, Milano, Italy
1991	(August)	Goodyear Tire and Rubber Company, Akron, OH
1991	(March)	Polymer Processing Institute, Stevens Institute of Technology, Secaucus, New Jersey (Short Course)
1990	(June)	Polymer Processing Institute, Stevens Institute of Technology, Teaneck, New Jersey (Short Course)
1990	(May)	Dow Chemical Company, Midland, Michigan
1990	(May)	ACS Akron Polymer Conference
1990	(May)	Kerr-McGee Corporation, Oklahoma City, OK
1990	(January)	B. F. Goodrich, Avon Lake, Ohio
1989	(June)	B. F. Goodrich, Brecksville, Ohio
1989	(April)	Mitsui Toatsu Chemicals, Yokohama, Japan

1989	(January)	Department of Mechanical Engineering, Technion-Israel Institute of Technology, Haifa, Israel
1988	(December)	Department of Chemical Engineering, Technion-Israel Institute of Technology, Haifa, Israel
1988	(December)	The Goodyear Tire and Rubber Company, Akron, Ohio
1988	(October)	International Seminar on Elastomers, University of Akron, Akron, Ohio
1988	(October)	Department of Chemistry, Queen's University, Kingston, Canada
1988	(May)	Department of Chemical Engineering, University of Minnesota, Minneapolis, Minnesota
1988	(March)	Akron Polymer Engineering Center, University of Akron, Akron, Ohio
1987	(November)	Borg Warner Chemicals, Parkersburg, West Virginia
1986	(January)	Shell Development Company, Westhollow Research Center, Houston, Texas
1986	(June)	Dow Chemical, Granville Research Center, Granville, Ohio
1985	(December)	NASA-Lewis Research Center, Cleveland, Ohio
1984	(January)	Department of Macromolecular Science, Case Western Reserve University, Cleveland, Ohio
1982	(August)	Farrell Company Division, USM Corporation, Ansonia, Connecticut
1982	(August)	Department of Chemical Engineering, Stevens Institute of Technology, Hoboken, New Jersey

Short Courses

1999	Case Western Reserve University, Cleveland, Ohio	Short Course on Fundamentals and New Developments in Processing of Multiphase Systems
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1993	University of Akron, Akron, Ohio	EPIC Short Course on Blending and Compounding Polymer Systems
1993	Cabot Corporation Billerica, Massachusetts	Short Course on Polymer Processing
1992	Polymer Processing Institute Stevens Institute of Technology, Meadowlands, New Jersey	Short Course on Mixing
1992	University of Akron, Akron, Ohio	EPIC Short Course on Blending and Compounding Polymer Systems
1991	Polymer Processing Institute Stevens Institute of Technology, Secaucus, New Jersey	Short Course on Mixing
1991	University of Akron, Akron, Ohio	EPIC Short Course on Blending and Compounding Polymer Systems

Conference Presentations

1. L. Bava, D.L. Feke, I. Manas-Zloczower and S. J. Rowan, 2007, "Temperature Controlled Aggregation And Dispersion Behavior Of Silica Clusters", AIChE Annual Meeting, Salt Lake City, Utah, November 4-9.
2. L. Bava, D.L. Feke, I. Manas-Zloczower and S. J. Rowan, 2007, "Temperature Controlled Dispersion of Poly(N-Isopropyl Acrylamide) Treated Silica Clusters", Rubber Expo and International Rubber Conference, Cleveland, OH, October 16-18.
3. M. Kaufman, M. Camesasca and I. Manas-Zloczower, 2007, "Applications of Statistical Physics to Mixing in Microchannels: Entropy and Multifractals", NATO-ASI Conference, Sinaia, Romania, June 4-15.
4. I. Manas-Zloczower, M. Camesasca and M. Kaufman, 2007, "Fractal Mixers", PPS-23, Annual meeting, Salvador, Brazil, May 27-31.
5. L. Bava, D.L. Feke, I. Manas-Zloczower and S. J. Rowan, 2006, "Responsive Binders for Controlling Dispersion Behavior of Fine Particle Clusters", AIChE Annual Meeting, San Francisco, CA, November 12-17.

6. M. Camesasca, I. Manas-Zloczower, M. Kaufman, 2006, "Fractal Patterning for Mixing Enhancement in Microchannels" AIChE Annual Meeting, San Francisco, CA, November 12-17.
7. M. Kaufman, M. Camesasca, I. Manas-Zloczower, 2006, "Microchannel Mixing, Entropy and Multifractals" NSTI Nanotech, Boston, MA, May 7-11.
8. N. Domingues, M. Camesasca, M. Kaufman, I. Manas-Zloczower, António Gaspar-Cunha, José António Covas, 2006 "Modeling Agglomerate Dispersion in Single Screw Extruders" ANTEC-2006, Charlotte, NC, May 7-11.
9. L. Bava, D. L. Feke, I. Manas-Zloczower and S. Rowan, 2005, "Controlling the Processing Behavior of Silica Agglomerates Using a Thermo-Responsive Binder", AIChE meeting, Cincinnati, OH, November 6-10.
10. M. Camesasca, I. Manas-Zloczower and M. Kaufman, 2005, "Microsystems: Measuring Mixing Efficiency Using Statistical Entropy", AIChE meeting, Cincinnati, OH, November 6-10.
11. A. Scurati, D.L. Feke and I. Manas-Zloczower, 2005, "Kinetics of Dispersion of Particle Clusters in Steady and Time-Varying Simple Shear Flows", 7th World Congress of Chemical Engineers, Glasgow, Scotland, July 10-14.
12. M. Camesasca, M. Kaufman and I. Manas-Zloczower, 2005, "Entropic Analysis of Laminar Mixing in Single Screw Extruders", PPS-21, Annual meeting, Leipzig, Germany, June 19-23.
13. K. Alemaskin, I. Manas-Zloczower and M. Kaufman, 2005, "Color Mixing in Single Screw Extruder: Simulation and Experimental Validation", ANTEC-2005, Boston, MA, May 1-5.
14. I. Manas-Zloczower, M. Kaufman, K. Alemaskin and M. Camesasca, 2005, "Color Mixing in Extrusion: Simulations and Experimental Validation", The 2005 NSF Design, Service and Manufacturing Grantees Research Conference, Scottsdale, AZ, January 3-6.
15. J.M. Knoll, I. Manas-Zloczower, and D.L. Feke, 2004, "Understanding the Dispersion of Conductive Fillers," AIChE Annual Meeting, San Antonio, November 6-11.
16. M. Fanelli, D. L. Feke and I. Manas-Zloczower, 2004, "Prediction of the Dynamics of Dispersion of Particle Clusters in the Nano-Scale", AIChE 2004 Annual Meeting Austin, TX, November 10.
17. P. Gopalkrishnan, I. Manas-Zloczower and D. L. Feke, 2004, "Unified Theory of the Fundamental Mechanisms of Agglomerate Dispersion", PPS Annual meeting, Akron,

OH, June 20-24.

18. M. Fanelli, D.L. Feke and I. Manas-Zloczower, 2004, "Prediction of the Dispersion of Particle Clusters in the Nano-scale to the Micro-scale Size Range", PPS Annual meeting, Akron, OH, June 20-24.
19. M. Camesasca, I. Manas-Zloczower and M. Kaufman, 2004, "Statistical Entropy in Mixing Analysis Applied to Polymer Processing", PPS Annual meeting, Akron, OH, June 20-24.
20. K. Alemaskin, I. Manas-Zloczower and M. Kaufman, 2004, "Entropic Mixing Characterization in a Single Screw Extruder", PPS Annual meeting, Akron, OH, June 20-24.
21. K. Alemaskin, M. Camesasca, I. Manas-Zloczower, M. Kaufman, E.K. Kim, M. A. Spalding, W. A. Trumbull and R. D. Swain, 2004, "Entropic Mixing Characterization in A Single Screw Extruder", ANTEC-2004, Chicago, Ill, May 16-21.
22. M. Camesasca, K. Alemaskin, I. Manas-Zloczower and M. Kaufman, 2004, "Entropic Measures of Mixing Tailored for various Applications", The 2004 NSF Design, Service and Manufacturing Grantees Research Conference, Dallas, TX, January 5-8.
23. J. Boyle, I. Manas-Zloczower and D. L. Feke, 2003, "Analysis of Cohesive and Adhesive Failure Mechanisms in Agglomerate Dispersion", AICHE meeting, San Francisco, CA, November 16-21.
24. P. Gopalkrishnan, I. Manas-Zloczower, and D.L. Feke, 2003, "Predicting failure modes in agglomerates: adhesive or cohesive, from a fundamental analytical model to estimate binder-induced interactions", AICHE meeting, San Francisco, CA, November 16-21.
25. J. Boyle, D. L. Feke and I. Manas-Zloczower, 2003, "Mechanisms of Adhesive and Cohesive Failure in Agglomerate Dispersion", PPS Annual meeting, Melbourne, Australia, July 7-10.
26. K. Alemaskin, I. Manas-Zloczower and M. Kaufman, 2003, "Simultaneous Characterization of Dispersive and Distributive mixing in a Single Screw Extruder", ANTEC-2003, Nashville, TN, May 4-8.
27. M. Kaufman, W. Wang and I. Manas-Zloczower, 2003, "Dynamics of Mixing in Polymer Processing", Annual APS meeting, Austin, TX, March 3-7.
28. W. Wang, I. Manas-Zloczower, and M. Kaufman, 2003, "Characterization of Dynamics of Mixing in Polymer Processing and its Relationship to Chaos", The 2003 NSF Design, Service and Manufacturing Grantees Research Conference, Birmingham, AL,

January 6-9.

29. P. Gopalkrishnan, D. L. Feke and I. Manas-Zloczower, 2002, "Analysis of Liquid Pendular Bridges: Experiment and Modeling", AICHE meeting, Indianapolis, IN, November 3-8.
30. K. Alemaskin, I. Manas-Zloczower and M. Kaufman, 2002, "New complex entropic index for dispersive and distributive mixing characterization in continuous polymer processing equipment", AICHE meeting, Indianapolis, IN, November 3-8.
31. A. Scurati, I. Manas-Zloczower and D. L. Feke, 2002, "Influence of Powder Surface Treatment and Flow Geometry on the Dispersion Behavior of Silica into Polymeric Materials", PPS-18 Annual Meeting, Guimaraes, Portugal, June 16-20.
32. W. Wang, I. Manas-Zloczower and M. Kaufman, 2002, "Chaotic Features of Flow in Single Screw Extruders- Relevance to Distributive Mixing", ANTEC-2002, San Francisco, CA, May 5-9.
33. A. Scurati, D. L. Feke and I. Manas-Zloczower, 2002, "Model for Erosion Kinetics in Simple Shear Flows", ACS-Rubber Division Meeting, Savannah, GA, April 29-May 1.
34. W. Wang, I. Manas-Zloczower and M. Kaufman, 2002, "Chaotic Mixing in Polymer Processing", APS Meeting, Indianapolis, Indiana, March 18-22.
35. W. Wang and I. Manas-Zloczower, 2002, "Analysis of Distributive Mixing in Terms of Renyi Entropies in Continuous Polymer Processing Equipment", The 2002 NSF Design, Service and Manufacturing Grantees Research Conference, San Juan, Puerto Rico, January 7-10.
36. W. Wang, I. Manas-Zloczower and M. Kaufman, 2001, "A Study of Non-Linear Dynamics in Polymer Processing Equipment", AICHE Annual Meeting, Reno, Nevada, November 5-9.
37. J. Boyle, I. Manas-Zloczower and D. L. Feke, 2001, "Effect of Fluid Infiltration on the Dispersion Behavior of Fumed Silica Agglomerates", ACS Rubber Division Meeting, Cleveland, OH October 16-19.
38. A. Scurati, I. Manas-Zloczower and D. L. Feke, 2001, "Influence of Powder Surface Treatment on the Dispersibility of Precipitated Silica", ACS Rubber Division Meeting, Cleveland, OH, October 16-19.
39. J. Boyle, I. Manas-Zloczower and D. L. Feke, 2001, "Effect of Fluid Infiltration on the Dispersion Behavior of Powder Agglomerates", 17th Annual PPS Meeting, Montreal, Canada, May 21-24.

40. W. Wang and I. Manas-Zloczower, 2001, "Dispersive and Distributive Mixing Characterization in Extrusion Equipment", ANTEC, Dallas, TX, May 5-10.
41. W. Wang, I. Manas-Zloczower and M. Kaufman, 2001, "Characterization of Distributive Mixing in Polymer Processing Equipment", APS meeting, Seattle, WA, March 12-16.
42. W. Wang and I. Manas-Zloczower, 2001, "Analysis of Dispersive and Distributive Mixing in Terms of Minor Component Size and Spatial Distributions in Continuous Polymer Processing Equipment", The 2001 NSF Design, Service and Manufacturing Grantees Research Conference, Tampa, FL, January 7-10.
43. A. Scurati, D. L. Feke and I. Manas-Zloczower, 2000, "Influence of Morphology and Packing Density on the Permeability of Fine Particle Agglomerates", AICHE meeting, Los Angeles, CA, Nov. 13-17.
44. W. Wang and I. Manas-Zloczower, 2000, "Exploration of Efficient Methods to Generate Finite Element Meshes for Materials Processing", Fidap Users Group Meeting, Davenport, MA, June 12-16.
45. N. Nithi-Uthai, S.-Q. Wang and I. Manas-Zloczower, 2000, "Numerical Studies of Die Swell for Polymer Melts of Various MW and MWD", Polyflow Users Group Meeting, Davenport, MA, June 12-16.
46. D. Nichetti and I. Manas-Zloczower, 1998, "Influence of Molecular Parameters on Material Processability in Extrusion Processes", AICHE Annual Meeting, Miami Beach, Florida, November 15-20.
47. P. Levresse, D.L. Feke and I. Manas-Zloczower, 1998, "Behavior of Permeable Agglomerates in Prototype Flow Fields – Relevance to Agglomerate Dispersion", PPS North American Meeting, Toronto, Canada, August 17-19.
48. C. H Yao and I. Manas-Zloczower, 1998, "Influence of Design on Mixing Performance in an Axial Discharge Continuous Mixer-LCMAX 40", SPE-ANTEC, Atlanta, Georgia, April 26-30.
49. H. Cheng and I. Manas-Zloczower, 1997, "Distributive Mixing in Conveying Elements of Corotating Twin Screw Extruders", AICHE Annual Meeting, Los Angeles, California, November 16-21.
50. H. Yamada, D. L. Feke and I. Manas-Zloczower, 1997, "Measurement and Analysis of the Infiltration of Polymeric Liquids into Carbon Black Agglomerates", AICHE Annual Meeting, Los Angeles, California, November 16-21.

51. D. Nichetti and I. Manas-Zloczower, 1997, "Viscosity Model for Polydisperse Polymers" Society of Rheology Annual Meeting, Columbus, OH, October 20-24.
52. K. J. Ang, S. Q. Wang and I. Manas-Zloczower, 1997, "Extrudate Swell Simulations - Effect of Wall Slip", Society of Rheology Annual Meeting, Columbus, OH, October 20-24.
53. H. Yamada, D. L. Feke and I. Manas-Zloczower, 1997, "Influence of Matrix Viscosity and Interfacial Properties on Particle Clusters Dispersibility", PPS-13, Secaucus, NJ, June 10-13.
54. I. Manas-Zloczower and H. Cheng, 1997, "Influence of Design on Mixing Efficiency in the Kneading Disc Region of Corotating Twin Screw Extruders", SPE-ANTEC, Toronto, Canada, April 27-May 2.
55. P. Levresse, D. L. Feke and I. Manas-Zloczower, 1996, "Analysis of Formation of Bound Silicone Rubber on Silica", AIChE Annual Meeting, Chicago, IL, November 10-15.
56. A. L. Raab, D. L. Feke and I. Manas-Zloczower, 1996, "Influence of Aggregate Structure and Interfacial Chemistry on the Apparent Permeability of Carbon Black Clusters", AIChE Annual Meeting, Chicago, IL, November 10-15.
57. H. F. Cheng, T. Li and I. Manas-Zloczower, 1996, "Chaotic Features of Flow in Single and Twin Screw Extruders-Relevance to Distributive Mixing Efficiency", XII th International Congress on Rheology, Quebec City, Canada, August 18-23.
58. H. Yamada, D. L. Feke and I. Manas-Zloczower, 1995, "Kinetics of Dispersion of Draggable Carbon Black Agglomerates in Simple Shear Flow", AIChE Annual Meeting, Miami Beach, Florida, November 12-17.
59. F. Bohin, I. Manas-Zloczower and D. L. Feke, 1995, "Kinetics of Dispersion for Silica Agglomerates in Silicone Polymers", AIChE Annual Meeting, Miami Beach, Florida, November 12-17.
60. H. F. Cheng and I. Manas-Zloczower, 1995, "Effect of Rheological Properties on Distributive Mixing Efficiency in Single and Twin Screw Extruders", PPS Regional Meeting for the Americas, Akron, OH, November 14-16.
61. C. H. Yao and I. Manas-Zloczower, 1995, "Influence of Chamber Design on Mixing Efficiency in a Variable Intermeshing Clearance Mixer", PPS Regional Meeting for the Americas, Akron, OH, November 14-16.
62. H. F. Cheng and I. Manas-Zloczower, 1995, "Study of Mixing in Single Screw Extruders Using Poincare Sections and Residence Time Distribution Functions", PPS European Meeting, Stuttgart, Germany, September 26-28.

63. C. Q. Song, M. H. Litt and I. Manas-Zloczower, 1995, "Preparation and Characterization on HPC Hydrophilic Films", 210th ACS National Meeting, Chicago, Illinois, August 20-24.
64. C. Q. Song, M. H. Litt and I. Manas-Zloczower, 1995, "A Study of Permselectivity of Hydrophilic Membranes Crosslinked Under Various Conditions", 210th ACS National Meeting, Chicago, Illinois, August 20-24.
65. T. Li and I. Manas-Zloczower, 1995, "Flow Field Analysis of a Multi Cut Transfermix", SPE-ANTEC, Boston, Massachusetts, May 7-11.
66. I. Manas-Zloczower, 1995, "Effect of the Surfactant Treatment on the Dispersibility of Titania into Polymeric Materials: Filler-Polymer Interactions", 38th Annual Technical Symposium of the Cleveland Society for Coatings Technology, Akron, Ohio, May 4.
67. H. Yamada, I. Manas-Zloczower and D. L. Feke, 1995, "Characterization of Carbon Black Agglomerate Structure and Its Relation to Dispersibility", PPS Meeting, Seoul, Korea, March 27-30.
68. T. Li and I. Manas-Zloczower, 1994, "A Study of Distributive Mixing in Counterrotating Twin Screw Extruders", European Rheology Conference, Seville, Spain, September 4-9.
69. F. Bohin, I. Manas-Zloczower and D. L. Feke, 1994, "Characterization of the Dispersion of Silica Agglomerates in Silicone Polymers in Simple Shear Flows", PPS European Regional Meeting, Strasbourg, France, August 29-31.
70. I. Manas-Zloczower, 1994, "How to Make Better Composites: A Study of Mixing Efficiency in Various Equipment", 35th IUPAC, Akron, Ohio, July 11-15.
71. S. Gupta, D. L. Feke and I. Manas-Zloczower, 1994, "Separation of Polymers in Waste Streams Using Ultrasonic Standing Wave Fields", American Filtration Society Meeting, Chicago, May 1994.
72. C. H. Yao and I. Manas-Zloczower, 1994, "Study of Mixing Efficiency in a Two Roll Mill", PPS Meeting, Akron, Ohio, April 3-7.
73. M. Arellano, I. Manas-Zloczower and D. L. Feke, 1994, "Dispersion of Surfactant Treated TiO₂ Powders into Polymeric Materials", PPS Meeting, Akron, Ohio, April 3-7.
74. T. Li and I. Manas-Zloczower, 1994, "Mixing Performance Analysis for a Multi Cut Transfermix", PPS Meeting, Akron, Ohio, April 3-7.

75. M. Arellano, I. Manas-Zloczower and D. L. Feke, 1993, "Effects of Surfactant Treatment on the Dispersibility of TiO₂ Agglomerates", AIChE Meeting, Saint Louis, Missouri, November 1-5.
76. C. Wang and I. Manas-Zloczower, 1993, "Evaluation of a Cavity Transfer Mixer for Polymer Mixing", PPS Regional Meeting for the Americas, Morgantown, West Virginia, August 8-11.
77. T. Li and I. Manas-Zloczower, 1993, "Mixing Performance Analysis in Counter-rotating Twin Screw Extruders", PPS Regional Meeting for the Americas, Morgantown, West Virginia, August 8-11.
78. A. Drakopoulou, D.L. Feke and I. Manas-Zloczower, 1993, "Aggregate Structure Effect on the Agglomerate Morphology and Cohesivity", ACS, Rubber Division Meeting, Denver, Colorado, May 18-21.
79. T. Wong and I. Manas-Zloczower, 1993, "Two Dimensional Dynamic Study of Dispersive Mixing in a Banbury Mixer", SPE-ANTEC, New Orleans, Louisiana, May 9-13.
80. Y. J. Lee, I. Manas-Zloczower and D. L. Feke, 1993, "Studies of TiO₂ Agglomerate Dispersion in High Viscosity Media and its Effect on Properties of Compounds" Polymer Processing Society Meeting, Manchester, England, April 5-8.
81. Y.J. Lee, D.L. Feke and I. Manas-Zloczower, 1992, "The Influence of Powder Interface and Cluster Structure on the Dispersion of Surface Treated TiO₂", AIChE Meeting, Miami Beach, Florida, November 2-6.
82. T. Li and I. Manas-Zloczower, 1992, "Flow Field Analysis of an Intermeshing Counterrotating Twin Screw Extruder", AIChE Meeting, Miami Beach, Florida, November 2-6.
83. C. C. Wang and I. Manas-Zloczower, 1992, "Hydrodynamic Analysis of the Cavity Transfer Mixer", Polymer Processing Society Meeting, Prague, Czechoslovakia, September 21-24.
84. H. H. Yang and I. Manas-Zloczower, 1992, "Hydrodynamic Analysis of a Banbury Mixer- 3-D Flow Simulations", XIth International Congress on Rheology, Brussels, Belgium, August 17-21.
85. T. Wong and I. Manas-Zloczower, 1992, "Numerical Studies of the Flow Field in Partially Filled Mixing Equipment", SPE-ANTEC, Detroit, Michigan, May 3-7.
86. Y. J. Lee, D. L. Feke and I. Manas-Zloczower, 1992, "Interfacial Characteristics of Treated Titanium Dioxide Powders", SPE-ANTEC, Detroit, Michigan, May 3-7.

87. S.W. Horwatt, I. Manas-Zloczower and D. L. Feke, 1992, "Dynamic Behavior of Heterogeneous Agglomerates at Supercritical Stresses", Polymer Processing Society Meeting, New Delhi, India, March 23-27.
88. Y.J. Lee, D. L. Feke and I. Manas-Zloczower, 1991, "Dispersion and Stability Windows for the Processing of Titanium Dioxide Suspensions", AIChE Meeting, Los Angeles, California, November 4-8.
89. S.W. Horwatt, D. L. Feke and I. Manas-Zloczower, 1991, "Simulation of the Breakup of Dense Agglomerates in Simple Shear Flows", ACS Rubber Division Meeting, Detroit, Michigan, Oct. 8-11.
90. H. Ng, I. Manas-Zloczower and M. Shmorhun, 1991, "Rheo-Kinetic Studies for a DCPD-RIM System", Polymer Processing Society Meeting, Palermo, Italy, September 15-18.
91. M. Shmorhun, I. Manas-Zloczower and H. Ng, 1991, "Bulk Polymerization Kinetics of Telene Liquid Engineered Resin Systems", 9th International Symposium on Metathesis, Collegeville, Pennsylvania, July 21-25.
92. S. P. Rwei, D. L. Feke and I. Manas-Zloczower, 1991, "Analysis of Dispersion of Carbon Black in Polymeric Melts and Its Effect on Compound Properties", SPE-ANTEC, Montreal, Canada, May 6-10.
93. M. Shmorhun, I. Manas-Zloczower and H. Ng, 1991, "Bulk Polymerization Kinetics of Telene Liquid Resins", Polymer Processing Society Meeting, Hamilton, Ontario, April 21-24.
94. H. H. Yang and I. Manas-Zloczower, 1991, "Flow Field Analysis of the Kneading Disc Region in a Corotating Twin Screw Extruder", Polymer Processing Society Meeting, Hamilton, Ontario, April 21-24.
95. S. W. Horwatt, D. L. Feke and I. Manas-Zloczower, 1991, "The Influence of Structural Heterogeneities on the Cohesive Strength of Self-Similar Agglomerates", Polymer Processing Society Meeting, Hamilton, Ontario, April 21-24.
96. H. H. Yang and I. Manas-Zloczower, 1990, "Flow Simulations in the Kneading Discs Region of a Co-rotating Twin Screw Extruder", 5th International Science and Engineering Symposium on Cray Research Supercomputers, London, England, October 22-24.
97. C. Q. Song, M. H. Litt and I. Manas-Zloczower, 1990, "Photoinitiated Crosslinking of Hydroxypropyl Cellulose in the Isotropic and Liquid Crystal States", ACS National Meeting, Washington, D. C., August 26-31.

98. H. Ng and I. Manas-Zloczower, 1990, "Chemorheology of Filled Epoxy Systems", SPE-ANTEC, Dallas, Texas, May 7-11.
99. S. P. Rwei, D. L. Feke and I. Manas-Zloczower, 1990, "Observation of Carbon Black Agglomerate Dispersion in Simple Shear Flow", ANTEC, Dallas, Texas, May 7-11.
100. S. P. Rwei, D. L. Feke and I. Manas-Zloczower, 1990, "Mechanisms of Agglomerate Dispersion in Simple Shear Flows", Polymer Processing Society Meeting, Nice, France, Apr. 17-21.
101. I. Manas-Zloczower, 1989, "Studies of Mixing Efficiency through Flow Field Analysis", 48th Research Symposium for Industrial Sponsors, Department of Macromolecular Science, Case Western Reserve University, Cleveland, Ohio, November 8-9.
102. S. W. Horwatt, S. P. Rwei, D. L. Feke and I. Manas-Zloczower, 1989, "Penetration of Liquids into Carbon Black Agglomerates", Polymer Processing Society Summer Meeting, Amherst, Massachusetts, August 16-17.
103. S. P. Rwei, S. W. Horwatt, D. L. Feke and I. Manas-Zloczower, 1989, "Observation of Carbon Black Agglomerate Dispersion in a Simple Shear Flow", Polymer Processing Society Summer Meeting, Amherst, Massachusetts, August 16-17.
104. J. J. Cheng and I. Manas-Zloczower, 1989, "Flow Field Analysis in a Banbury Mixer", Polymer Processing Society Summer Meeting, Amherst, Massachusetts, August 16-17.
105. S. W. Horwatt, S. P. Rwei, D. L. Feke and I. Manas-Zloczower, 1989, "The Influence of Interstitial Liquids on the Cohesive Strength of Carbon Black Agglomerates", ACS-Rubber Division Meeting, Mexico City, Mexico, May 8-12.
106. J. J. Cheng and I. Manas-Zloczower, 1989, "Hydrodynamic Analysis of a Banbury Mixer- 2D Flow Simulations for the Entire Mixing Chamber", SPE-ANTEC, New York, May 1-5.
107. S. P. Rwei, S. W. Horwatt, D. L. Feke and I. Manas-Zloczower, 1989, "Observation and Analysis of Carbon Black Agglomerate Dispersion in Simple Shear Flows", The Polymer Processing Society Meeting, Kyoto, Japan, April 11-14.
108. J. J. Cheng and I. Manas-Zloczower, 1988, "Hydrodynamic Analysis of a Banbury Mixer", ACS, 3rd International Chemical Congress of the North American Continent, Toronto, Canada, June 5-11.
109. H. Ng and I. Manas-Zloczower, 1988, "A Non-Isothermal DSC Study of an Unsaturated Polyester System", ACS, 3rd International Chemical Congress of the North American Continent, Toronto, Canada, June 5-11.

110. I. Manas-Zloczower and D. L. Feke, 1988, "Analysis of Agglomerate Rupture in Linear Flow Fields", Polymer Processing Society Meeting, Orlando, Florida, May 8-11.
111. I. Manas-Zloczower and J. J. Cheng, 1988, "Hydrodynamic Analysis of a Banbury Mixer", ACS, Rubber Division Meeting, Dallas, Texas, April 19-22.
112. H. Ng and I. Manas-Zloczower, 1987, "Kinetic Studies of a Composite Thermoset Cure Reaction", SPE-ANTEC, Los Angeles, California, May 4-8.
113. I. Manas-Zloczower and D. L. Feke, 1987, "Analysis of Agglomerate Separation in Linear Flow Fields", Polymer Processing Society Meeting, Stuttgart, West Germany, April 7-10.
114. D. L. Feke and I. Manas-Zloczower, 1986, "Dynamics of Agglomerate Size Distribution in Linear Shear Flow Fields", 17th Annual Meeting of the Fine Particle Society, San Francisco, California, July 28-August 2.
115. I. Manas-Zloczower, J. W. Blake and C. W. Macosko, 1986, "Space-Time Distribution for Filling a Mold", Polymer Processing Society Meeting, Montreal, Canada, April 1-4.
116. I. Manas-Zloczower and C. W. Macosko, 1985, "Moldability Diagrams for Reactive Molding", Polymer Processing Society Meeting, Akron, Ohio, March 28-29.
117. I. Manas-Zloczower and C. W. Macosko, 1984, "Moldability Diagrams in RIM-Outline and Strategy", 3rd International Conference on Reactive Polymer Processing, Strasbourg, France, September 4-7.
118. I. Manas-Zloczower and C. W. Macosko, 1984, "Moldability Diagrams in RIM", AIChE Meeting, San Francisco, California, November 25-30.
119. I. Manas-Zloczower and C. W. Macosko, 1984, "Moldability Diagrams in RIM", SPE-ANTEC, New Orleans, Louisiana, April 30-May 3.
120. I. Manas-Zloczower, A. Nir and Z. Tadmor, 1983, "Dispersive Mixing in Polymer Processing", Israel Society of Chemical Engineers Congress, Haifa, Israel, March 31.
121. I. Manas-Zloczower, A. Nir and Z. Tadmor, 1982, "Dispersive Mixing in Internal Mixers- A Theoretical Model Based on Agglomerate Rupture", ACS, Rubber Division Meeting, Philadelphia, May 4-7.
122. I. Manas-Zloczower and Z. Tadmor, 1980, "Dispersive Mixing in a Banbury Mixer", Technion-Gent University Conference, Haifa, Israel.