

DR. DANIEL KLEMPNER'S PUBLICATIONS

1. N. Agnostinelli and D. Klempler, "High Energy Density Capacitors," Technical Report ECOM-0511-1 (1968).
2. H.L. Frisch and D. Klempler, "Topological Isomerism and Macromolecules," Advances in Macromolecular Chemistry, Volume 2, edited by W.M. Pasika, Academic Press(1970).
3. H.L. Frisch, D. Klempler and K.C. Frisch, "A Topologically Interpenetrating Elastomeric Network," J. Polymer Sci. (Part B), 7, 775 (1969).
4. D. Klempler, H.L. Frisch and K.C. Frisch, "Topologically Interpenetrating Elastomeric Networks," J. Polymer Sci., (Part A-2), 8, 921 (1970).
5. M. Matsuo, T.K. Kwei, D. Klempler and H.L. Frisch, "Morphology and Viscoelasticity of Interpenetrating Networks," Bull. Am. Phys. Soc., 11, 15 (3), 354 (1970).
6. M. Matsuo, T.K. Kwei, D. Klempler and H.L. Frisch, "Structure-Property Relationships in Polyacrylate-Poly(urethane-urea) Interpenetrating Polymer Networks," Polymer Eng. and Sci., 10, (6), 327 (1970).
7. D. Klempler and H.L. Frisch, "Thermal Analysis of Polyacrylate-Poly(urethane-urea) Interpenetrating Polymer Networks," J. Polymer Sci. (Part B), 8, 525 (1970).
8. H.L. Frisch, D. Klempler and K.C. Frisch, "A Topologically Interpenetrating Elastomeric Network," Rubber Chem. and Techn., 43, (4), 883 (1970).
9. D. Klempler, H.L. Frisch and K.C. Frisch, "Topologically Interpenetrating Elastomeric Networks," Polymer Preprints, 11, (2), 483 (1970).
10. D. Klempler, H.L. Frisch and K.C. Frisch, "Synthesis and Properties of Topologically Interpenetrating Polymeric Networks," Highly Crosslinked Network Polymers, edited by S. Neuman and A.J. Chompff, Plenum Press (1970).
11. D. Klempler, H.L. Frisch and K.C. Frisch, "Topologically Interpenetrating Elastomeric Networks," Rubber Chem. and Techn., 44, 607 (1971).
12. T.K. Kwei, H.L. Frisch and D. Klempler, "Modified Free Volume Theory of Penetrant Diffusion in Polymers," Macromolecules, 4, (2), 237 (1971).
13. D. Klempler, H.L. Frisch and K.C. Frisch, "Topologically Interpenetrating Polymeric Networks," J. Elastoplastics, 3, 2 (1971).
14. D. Klempler and F.E. Karasz, "Electrical Properties of Polymers," Digest of Literature of Dielectrics, edited by A. Cookson, Nat. Research Council, 34, 256 (1970).
15. D. Klempler and F.E. Karasz, "Electrical Properties of Polymers," J. Elastoplastics, 4, 180 (1972).
16. D. Klempler and F.E. Karasz, "High Pressure X-Ray Diffraction of Polymers: Compressibility of Linear Polyethylene," Polymer Preprints, 13, (2), 976 (1972).
17. K.C. Frisch, D. Klempler, H.L. Frisch and H. Ghiradella, "Interpenetrating Polymer Networks," Polymer Preprints, 14, (2), 1084 (1973).
18. K.C. Frisch, D. Klempler and H.L. Frisch, "Nomenclature of Interpenetrating Polymer Networks," J. Elastoplastics, 5, 196 (1973).
19. K.C. Frisch, D. Klempler, S. Migdal, H.L. Frisch and H. Ghiradella, "Morphology of a Polyurethane-Polyacrylate Interpenetrating Polymer Networks," Polymer Eng. and Sci., 14, (1), 76 (1974).
20. K.C. Frisch, D. Klempler, S. Migdal, A.P. Dunlop and H.L. Frisch, "Polyurethane-

Polyacrylate Interpenetrating Polymer Networks I," J. Polymer Sci., (A-1), 12, (4), 885 (1974).

21. K.C. Frisch, D. Klempler, S. Migdal and H.L. Frisch, "Polyurethane-Polyacrylate Interpenetrating Polymer Networks II," J. Applied Polymer Sci. 19, 1892 (1975).
22. H.L. Frisch, K.C. Frisch and D. Klempler, "Glass Transitions of Topologically Interpenetrating Polymer Networks," Polymer Eng. and Sci., 14, (9), 646 (1974).
23. K.C. Frisch, D. Klempler, S.K. Mukherjee and H.L. Frisch, "Stress-Strain Properties and Thermal Resistance of Polyurethane-Polyepoxide Interpenetrating Polymer Networks," J. Applied Polymer Sci., 18, 689 (1974).
24. K.C. Frisch, D. Klempler, T. Antczak and H.L. Frisch, "Stress-Strain Properties of Polyurethane-Polyacrylate Interpenetrating Polymer Networks," J. Applied Polymer Sci., 18, 683 (1974).
25. D. Klempler, K.C. Frisch, H.L. Frisch and H. Ghiradella, "Topologically Interpenetrating Polymer Networks," Polymer Blends, Blocks and Grafts, edited by L.H. Sperling, Plenum Press, 395 (1973).
26. D. Callahan, D. Klempler and H.L. Frisch, "Polymeric Catenanes," Polymer Eng. and Sci., 15, (2), 70 (1975).
27. S. Kim, D. Klempler, K.C. Frisch, H.L. Frisch and H. Ghiradella, "Polyurethane-Polystyrene Interpenetrating Polymer Networks," Polymer Eng. and Sci., 15, (5), 339 (1975).
28. D. Klempler and K.C. Frisch, "Polymer Networks," Advances in Urethane Science and Technology, by K.C. Frisch and S. Reegen, Technomic Publishing Co. (1974).
29. D. Klempler, K.C. Frisch, S. Kim, H.L. Frisch and H. Ghiradella, "Interpenetrating Polymer Networks," International Symposium on Macromolecules, Rio de Janeiro (1974).
30. S. Kim, D. Klempler and K.C. Frisch, "Polyurethane Interpenetrating Networks," Coatings and Plastics Preprints, 35, (2), 31 (1975).
31. G. Mohiuddin, D. Klempler and K.C. Frisch, "Organomercurial Catalysis of Urethane Polymerization," Coatings and Plastics Preprints, 35, (2), 50 (1975).
32. D. Klempler, "Polymer Science and Engineering," Polymer News, 2, (1112), 52 (1976).
33. K.C. Frisch and D. Klempler, "Polymer Institute, University of Detroit," Coatings and Plastics Preprints, 36, (1), 286 (1976).
34. S.C. Kim, D. Klempler, K.C. Frisch, H.L. Frisch and W. Radigan, "Polyurethane Interpenetrating Networks, I: Synthesis and Morphology of Polyurethane-Poly(methyl methacrylate) IPNs," Macromolecules, 9, (2), 258 (1976).
35. S.C. Kim, D. Klempler, K.C. Frisch and H.L. Frisch, "Polyurethane Interpenetrating Networks, II: Density and Glass Transition Behavior of Polyurethane-Poly(methyl methacrylate) and Polyurethane-Polystyrene IPNs," Macromolecules, 9, (2), 263 (1976).
36. G. Mohiuddin, D. Klempler and K.C. Frisch, "Organomercurial Catalysis of Urethane Polymerization: Kinetics and Properties," Elastomerics, 109, (4) 41 (1977).
37. S.C. Kim, D. Klempler, K.C. Frisch and H.L. Frisch, "Polyurethane Interpenetrating Polymer Networks, V: Engineering Properties of Polyurethane-Poly(methyl methacrylate) Interpenetrating Polymer Networks," J. Appl. Poly. Sci., 21, 1289 (1977).
38. D. Klempler, K.C. Frisch, H.K. Yoon and H.L. Frisch, "Polyacrylate Polyurethane Interpenetrating Polymer Networks," Coatings and Plastics Preprints, 36, (2), 631 (1976).
39. H.L. Frisch, K.C. Frisch and D. Klempler, "Tangled Polymers," Chemtech, 188, March (1977).

40. H.L. Frisch, K.C. Frisch and D. Klemper, "Interpenetrating Polymer Networks," *Modern Plastics*, 54, (4), 76 (1977).
41. S.C. Kim, D. Klemper, K.C. Frisch and H.L. Frisch, "Polyurethane Interpenetrating Polymer Networks, III: Viscoelastic Properties of Polyurethane-Poly(methyl methacrylate) Interpenetrating Polymer Networks," *Macromolecules*, 10, (6), 1187 (1977).
42. D. Klemper, K.C. Frisch, H.K. Yoon and H.L. Frisch, "Polyacrylate Polyurethane Pseudo-Interpenetrating Polymer Networks," Chemistry and Properties of Crosslinked Polymers, edited by S.S. Labana, Plenum Press, 243 (1977).
43. H.L. Frisch, K.C. Frisch and D. Klemper, "Interpenetrating Polymer Networks," Chemistry and Properties of Crosslinked Polymers, edited by S.S. Labana, Plenum Press, 205 (1977).
44. D. Klemper, "Interpenetrating Polymer Networks," *Angew. Chemie*, 90, 104 (1978).
45. H.L. Frisch, J. Cifaratti, R. Palma, R. Schwartz, R. Foreman, H. Yoon, D. Klemper and K.C. Frisch, "Barrier and Surface Properties of Polyurethane-Epoxy Interpenetrating Polymer Networks," *Coatings and Plastics Preprints*, 37, (11) 383 (1977).
46. H.L. Frisch, J. Cifaratti, R. Palma, R. Schwartz, R. Foreman, H.K. Yoon, D. Klemper and K.C. Frisch, "Barrier and Surface Properties of Polyurethane-Epoxy Interpenetrating Networks," Polymer Alloys: Blends, Blocks, Grafts, and Interpenetrating Networks, edited by D. Klemper and K.C. Frisch, Plenum Press, Polymer Science and Technology, 10, 97 (1977).
47. F.E. Karasz, P.R. Couchman and D. Klemper, "On the Entropy of Fusion and Its Separation Into Configurational and Volume Change Contributions," *Macromolecules*, 10, 88 (1977).
48. H.L. Frisch, K.C. Frisch and D. Klemper, "Examining the Properties of Interpenetrating Polymer Networks," *Modern Plastics*, 54, (5), 84 (1977).
49. S.C. Kim, D. Klemper, K.C. Frisch and H.L. Frisch, "Polyurethane Interpenetrating Polymer Networks, IV: Resistivity Behavior of Polyurethane-Poly(methyl methacrylate) Interpenetrating Polymer Networks," *Macromolecules* 10, (6), 1191 (1977).
50. D. Klemper, "Interpenetrating Polymer Networks," *Angew. Chemie*, 17, 97 (1978).
51. S. Salman, D. Klemper, F. McGregor, "Alumina Trihydrate as a Flame-Retardant Filler in Thermoplastics," *Plastics Engineering*, February, 39 (1979).
52. D. Klemper, H.K. Yoon, K.C. Frisch and H.L. Frisch, "Polyurethane-Acrylic Copolymer-Pseudo-Interpenetrating Polymer Networks, II," *Coatings and Plastics Preprints* 40, 769 (1979).
53. H.L. Frisch, K.C. Frisch, D. Klemper and H.K. Yoon, "Poly(2,6-dimethyl-1,4-phenylene oxide)-Polystyrene Interpenetrating Polymer Networks," *Coatings and Plastics Preprints*, 40, 763 (1979).
54. H.L. Frisch, R. Foreman, R. Schwartz, H.K. Yoon, D. Klemper and K.C. Frisch, "Barrier and Surface Properties of Polyurethane-Epoxy Interpenetrating Polymer Networks, II," *Polymer Eng. & Sci.*, 19, (4), 294 (1979).
55. H.L. Frisch, D. Klemper, H.K. Yoon and K.C. Frisch, "Poly(2,6-dimethyl-1,4-phenylene oxide)-Polystyrene Interpenetrating Polymer Networks," *Macromolecules* 13, 1016 (1980).
56. D. Klemper, H.K. Yoon, K.C. Frisch and H.L. Frisch, "Polyurethane-Acrylic Copolymer Pseudo Interpenetrating Polymer Networks", Polymer Alloys II, edited by D. Klemper and K.C. Frisch, Plenum Press, 185 (1980).
57. H.L. Frisch, D. Klemper, H.K. Yoon and K.C. Frisch, "Poly(2,6-dimethyl-1,4 phenylene oxide)-Polystyrene Interpenetrating Polymer Networks," Polymer Alloys II, edited by D.

Klempner and K.C. Frisch, Plenum Press, 203 (1980).

58. D. Klempner and K.C. Frisch, "A New Aromatic Diol Chain Extender for Urethane Elastomers," *Coatings and Plastics Preprints*, 43, 960 (1980).
59. D. Klempner and K.C. Frisch, "A Novel Diol Chain Extender for Polyurethanes," in *Advances in Urethane Science and Technology*, edited by D. Klempner and K.C. Frisch, Technomic Publishing Co., 8, 93 (1981).
60. D. Klempner and K.C. Frisch, "A New Aromatic Chain Extender for Urethane Elastomers," in *Urethane Chemistry and Applications*, edited by K.N. Edwards, A.C.S. Symposium Series 172.
61. H.L. Frisch, K.C. Frisch and D. Klempner, "Advances in Interpenetrating Polymer Networks," *Pure & Appl. Chem.* 53, 1557 (1981).
62. D. Klempner and K.C. Frisch, "Polyurethanes," in *Encyclopedia of Materials and Science and Engineering* (1982).
63. D. Klempner, K.C. Frisch and H.L. Frisch, "Recent Advances in Interpenetrating Polymer Networks," *Polymer Eng. & Sci.*, 22, (17), 1143 (1982).
64. C.L. Wang, S.I. Lee and D. Klempner, "Modeling of Incompatible Polymer Blends Systems," *J. Polymer Sci.*, 21, (9), 749 (1983).
65. C.L. Wang, D. Klempner and K.C. Frisch, "Structure-Property Relationships in Isocyanurate-Based Urethane Elastomers," *Polymeric Materials Science and Engineering*, 49, 38 (1983).
66. C.L. Wang, S. Wong and D. Klempner, "High Temperature Isocyanurate-Urethane Elastomers," *Polymeric Materials Science and Engineering*, 49, 159 (1983).
67. M. Chung, S. Wong and D. Klempner, "Synthesis and Characterization of Bis-2-Oxazolidone from Bisglycidyl Ether of Bis-phenol A and Phenyl Isocyanate as a Model Compound," *Polymeric Materials Science and Engineering*, 49, 325 (1983).
68. D. Klempner and J.P. Ryan, "Hazard Warning: Beyond Minimum Consensus Standards," *Trial Magazine*, (September 1983).
69. D. Klempner, "A Mathematical Analysis of the End-Game in Backgammon," *National Backgammon Magazine*, 46 (September, 1981).
70. C.L. Wang, D. Klempner and K.C. Frisch, "Structure-Property Relationships and Morphology of Isocyanurate-Containing Urethane Elastomers," in *Advances in Urethane Science and Technology*, Vol. 9, Technomic Publishing Co. 102 (1984).
71. K.C. Frisch, D. Klempner, H.X. Xiao, E. Cassidy and H.L. Frisch, "Recent Studies in Interpenetrating Polymer Networks at the Polymer Institute-University of Detroit," *Antec '84*, 477 (1984).
72. K.C. Frisch, D. Klempner, H.X. Xiao, E. Cassidy, and H.L. Frisch, "Charge Group-Containing Interpenetrating Polymer Networks," *Polymeric Materials Science and Engineering*, 51, 502 (1984).
73. K.C. Frisch, D. Klempner, and H.L. Frisch, "Two and Three Component Interpenetrating Polymer Networks," *Polymer Eng. and Sci.*, 25 (8), 488 (1985).
74. D. Klempner, "Paints," *Construction Engineering and Litigation*, Volume 2, edited by George Peters, Garland Law Publishing, New York 723 (1988).
75. D. Klempner, "Polymers at Detroit," *Polymer News*, 10, 343 (1985).
76. D. Klempner, K.C. Frisch, H.X. Xiao and H.L. Frisch, "Multi-Component Interpenetrating

Polymer Networks," RETEC (Ontario) (1984).

77. D. Klempler, K.C. Frisch, H.X. Xiao, E. Cassidy and H.L. Frisch, "Recent Interpenetrating Polymer Networks", ACS Advances in Chemistry Series, 211 (in press).
78. H.X. Xiao, K.C. Frisch, D. Klempler, E. Cassidy and H.L. Frisch, "Recent Studies on IPNs at the University of Detroit," Polym. Eng. & Sci., 25 (12), 758 (1985).
79. C.L. Wang, D. Klempler and K.C. Frisch, "Morphology and Polyurethane-Isocyanurate Elastomers," J. Applied Polymer Sci., 30, 4337 (1985).
80. D. Klempler, L. Berkowski, K.C. Frisch, K.H. Hsieh and R. Ting, "Energy Absorption of Interpenetrating Polymer Networks," Rubber World, 192 (6), 16 (1985).
81. D. Klempler, L. Berkowski, K.C. Frisch, K.H. Hsieh and R. Ting, "Interpenetrating Polymer Networks for Vibration Attenuation," Polymeric Materials Science and Engineering, 52, 57 (1985).
82. D. Klempler and L. Berkowski, "Interpenetrating Polymer Networks," Encyclopedia of Polymer Science and Engineering 8, 279 (1987).
83. D. Klempler, "The Polymer Institute, University of Detroit," Polymer News, 10 (11), 343 (1985).
84. D. Klempler, K.C. Frisch, H.X. Xiao, E. Cassidy and H.L. Frisch, "Three Component Interpenetrating Polymer Networks," in Multicomponent Polymer Materials, D.R. Paul and L.H. Sperling, 211 (1985).
85. C.L. Wang, D. Klempler, and K.C. Frisch, "Sound Absorption of IPN Foams," J. Applied Polym. Sci., 32, 4197 (1986).
86. D. Klempler and K.C. Frisch, "Polyurethane Elastomers," in Encyclopedia of Materials Science and Engineering, 3803 (1986).
87. W.M. Baumann, R.V. Scott, D.W. House, D. Klempler, K.C. Frisch and H.X. Xiao, "Studies on the Application of Liquid Aromatic Secondary Amines as Chain Extenders and Reactive Carriers for Other Amine or Hydroxyl-Containing Polyurethane Curatives," 30th Annual Polyurethane Technical/Marketing Conference, 374 (1986).
88. W.M. Baumann, R.V. Scott, D. Klempler, K.C. Frisch, H.X. Xiao and D.W. House, "Studies on the Application of Liquid Aromatic Secondary Amines as Chain Extenders and Reactive Carriers for Other Amine or Hydroxyl-Containing Polyurethane Curatives," J. Elastomers and Plastics, 18 (4), 233 (1986).
89. Ching-Li Wang, D. Klempler, K. C. Frisch, "Studies of the Effects of Kinetic Variables in High Conversion Polyurethanes Curing Kinetics," in Advances in Urethane Science and Technology, Vol. 10, edited by K. C. Frisch and D. Klempler, Technomic Publishing Co., Westport, CT 37 (1987)
90. W. Baumann, R. V. Scott, D. Klempler, K. C. Frisch, H. X. Xiao, and D. U. House, "Aromatic Secondary Polyamines in Polyurethanes Application" in Advances in Urethane Science and Technology, Vol. 10, edited by Technomic Publishing Co., Westport, CT 163 (1987).
91. D. Klempler, K. C. Frisch, B. Sedghi, I. Raza, B. Muni, "Energy Absorption of Interpenetrating Polymer Network Elastomers and Foams," Cellular Polymers, 6(4), 1(1987).
92. D. Klempler, K. C. Frisch, "Energy Absorption of Polyurethane-Based Interpenetrating Polymer Networks," Polyurethanes World Congress Proceedings, 656 (1987).
93. S. Schlick, R.D. Harvey, J. Kusters, M. Omoto, D. Klempler, "Study of Morphology in IPNs

using Spin Probes", *Polymer Preprints*, 28, (2), 167(1987).

94. Kurt C. Frisch, Jr. and D. Klemppner, "Energy Absorbing Multicomponent IPN Elastomer and Foams", in Recent Developments in Polyurethanes and Interpenetrating Polymer Networks, Technomic Publishing Co., Westport, CT, 50(1988).
95. D. Klemppner, K. Hibino, K.C. Frisch, "Polyurethane-Polyvinylchloride Pseudo Interpenetrating Polymer Networks", in "Advances in Polymer Blends and Alloys", Vol. II, Technomic Publishing Co. (1989).
96. K.C. Frisch and D. Klemppner, "Synthesis and Curing Reactions of Polyurethanes", in Comprehensive Polymer Science, 5, 413(1989).
97. M. Omoto, J. Kusters, D. Sophiea, D. Klemppner, K.C. Frisch, "Polyurethane/Polyvinylchloride Pseudo IPNs", *PMSE*, 58, 884 (1988).
98. D. Klemppner, K.C. Frisch, H.X. Xiao, S. Shah, M.J. Gattuso, R.V. Scott, D.W. House, and W.M. Baumann, "Secondary Amine Extended Flexible Polyurethane-Urea Foams", *Proceedings of the SPI-31st Annual Technical/Marketing Conference*, 41 (1988).
99. S. Schlick, R. Harvey, M.G. Alonso-amigo, D. Klemppner, "Study of the Phase Separation in IPNs Using Nitroxide Spin Labels", *Macromolecules*, 22, 822 (1989).
100. R.Y. Ting, R.N. Capps, D. Klemppner, "Effect of Fillers on the Acoustical Properties of Some IPN Polymers", *Polymer Materials Science and Engineering* (in press).
101. D. Klemppner, B. Muni, and M. Okoroafor, "Energy Absorbing Multicomponent IPN Foams", in *Multiphase Polymers: Blends and Ionomers*, edited by L.A. Utracki and R.A. Weiss, ACS Symposium Series 395, 263 (1989).
102. D. Klemppner, D. Sophiea, "IPNs in Composites", in Encyclopedia of Composites, edited by S. Lee, VCH, New York, 401 (1990).
103. R.Y. Ting, R.N. Capps, D. Klemppner, "The Acoustical Properties of Some IPN Polymers Based on Urethane/Epoxy Networks", *ACS Books* (in press).
104. B. Muni, D. Klemppner, M. Okoroafor, K.C. Frisch, "Energy-Absorbing IPNs", in Advances in IPNs, edited by D. Klemppner and K.C. Frisch, Technomic Publishing Co., Lancaster, PA (1989).
105. M.J. Gattuso, R.V. Scott, D.W. House, W.M. Baumann, K.C. Frisch, D. Klemppner, H.X. Xiao, and S. Shah, "Secondary Amine Extended Flexible Polyurethane Foams", *J. Cell. Plastics*, 26 (1), 48 (1990).
106. D.K. Lee, L. Chen, A. Sendijarevic, V. Sendijarevic, K.C. Frisch and D. Klemppner, "Effect of Morphology on Sound Attenuation of Flexible Polymeric Foams", *J. Cell. Plastic*, 27 (1) 135 (1991).
107. V. Sendijarevic, A. Sendijarevic, H. Lekovic, E. Torlic, J.E. Kresta, D. Klemppner and K.C. Frisch, "High Temperature, High Strength Isocyanate-Based Foams", *Proceedings of Cellular Polymers International Conference*, London, March 20-22, (1991).
108. D. Klemppner, D. Sophiea, B. Suthar, K.C. Frisch, V. Sendijarevic "Low Frequency Sound Absorbing Studies on Foams Based on Polyurethane and IPNs", *PMSE Preprints*, 65, 82 (1991).
109. V. Sendijarevic, A. Sendijarevic, H. Lekovic, E. Torlic, J.E. Kresta, D. Klemppner, K.C. Frisch, L. Hunter and R. Banuk, "Heat Resistant Isocyanate Based Foams" *Cellular Polymers* 10 (3), 213 (1991).
110. K.C. Frisch, V. Sendijarevic, A. Sendijarevic, H. Lekovic, D. Klemppner and J.E. Kresta, "New Heat Resistant Isocyanate Based Foams for Structural Applications", *Proceedings of*

the SPI Polyurethanes World Congress, Nice, France, 850 (1991).

111. D. Sophiea and D. Klempner, "Interpenetrating Polymer Networks as Energy Absorbing Materials", *Progress in Rubber and Plastics Technology*, 7 (3), (174 (1991)).
112. M.J. Gattuso, R.V. Scott, D.W. House, D. Klempner, K. Ashida, K.C. Frisch, S.Mahdi and C. Parekh, "Rigid Isocyanate-Based Foams Prepared with Aromatic Secondary Diamines, UTECH 92, 110 (1992).
113. J.D. Arenivar, K.C. Frisch, S. Wong, S.B. Wang, and D. Klempner, "Metal Carboxylates For Urethanes", UTECH 92, 161 (1992).
114. K.C. Frisch, V. Sendijarevic, A. Sendijarevic, H. Lekovic, J.E. Kresta, D. Klempner, L. Hunter and R. Banuk, "Structural Applications of Heat Resistant Isocyanate-Based Foams", *J. Cellular Plastics*, 28, 316 (1992).
115. B. Singh, H. Porosoff, H. Lekovic, A. Sendijarevic, V. Sendijarevic, D. Klempner and K.C. Frisch, "Novel Carbamylmethylated Melamine Polyols in Rigid Water-Blown Urethane Foams", *Proceedings of the SPI-34th Annual Technical/Marketing Conference*, New Orleans, 322 (1992).
116. R.V. Scott, D.W. House, M.J. Gattuso, K. Ashida, K.C. Frisch, D. Klempner, S.Mahdi and C. Parekh, "The Use of Secondary Aromatic Diamines in Rigid Isocyanurate-Based Foams", *Proceedings of the SPI-34th Annual Technical/Marketing Conference*, New Orleans, 331 (1992).
117. D. Klempner and D. Sophiea, "Interpenetrating Polymer Networks" in Elastomers Technology Handbook, Ed. N.P. Cherlmisinoff, CRC Press, 421 (1993).
118. V. Sendijarevic, A. Sendijarevic, K. Kitanovski, D. Klempner, and K.C. Frisch, "Solidification/Stabilization of Hazardous Wastes by Means of Polymeric Isocyanate-Based Binder Systems", *Proceedings of the SPI Polyurethanes World Congress*, Vancouver, 129 (1993).
119. V. Sendijarevic, A. Sendijarevic, K. Kitanovski, D. Klempner, and K.C. Frisch, "Polymeric Binders for Hazardous Wastes", *J. Cell. Plastics* 29 (5), 428 (1993).
120. D. Sophiea, D. Klempner, V. Sendijarevic, B. Suthar, K.C. Frisch, "Energy Absorption of Interpenetrating Polymer Networks", in Interpenetrating Polymer Networks, *Advances in Chemistry series*, 239, American Chemical Society, 39 (1994).
121. B. Suthar, D. Klempner, K.C. Frisch, Z. Petrovic, Z. Jelcic, "Novel Dielectrics from IPNs Derived from Caster Oil Based Polyurethanes", *J. Appl. Polymer Sci.* 53, 1083 (1994).
122. D. Klempner, "Recent Studies at University of Detroit Mercy's Environmental Center," in 25th Anniversary Symposium of the Polymer Institute, Technomics, Lancaster, PA 119 (1994).
123. D. Klempner, "Recent Studies at the University of Detroit Mercy's Center of Excellence in Environmental Engineering and Science," *10* (4), Edited by J.M. Buist, Rapra Tech. Ltd., 284 (1994).
124. D. Klempner and L. Hanifin, "Environmental Studies at University of Detroit Mercy, Environmental Engineering", *J. Env. Eng. and Mgt.*, 4 (3), 4 (1994).
125. Frisch, K.C., Sendijarevic, V., Sendijarevic, A and Klempner, D., "Utilization of Polymeric Isocyanate-Based Binders in Recycling of Automotive Shredder Fluff", *RAPRA Cellular Polymers III International Conference*, Coventry, England, 1995.
126. D. Klempner and L. Hanifin, "Highlights of the Year's Projects - Center of Excellence in Environmental Engineering and Science", *The Journal of Environmental Engineering and Management*, *4* (3), 4 (1995).

127. Q. Zhao, U. Dutta, J. Gu, J.E. Kresta, J.J. Meister, D. Klemptner, and D. Garrett, "The Use of Auto Scrap in Interior Components", Proceedings of Inside Automotives Conference (1995).
128. V. Sendijarevic, A. Sendijarevic, N. Colaco, E. Snellen, D. Klemptner and K.C. Frisch, "Hazardous Waste Stabilization with Isocyanate-Based Binders", Proceeding from UTECH Asia '95, 45 (1995).
129. D. Klemptner and B. Suthar, "Recycling of Plastics Materials," in Plastics Parts Manufacturing, edited by P. Mitchell (in press).
130. J.E. Kresta, H.X. Xiao, B. Suthar, L. Baeten, X.H. Li, S.P. Sun and D. Klemptner, "Recycling of Polyurea-Urethane Rim," Proceedings from SPI Polyurethane Division meeting, September 26-29, 1995, Chicago, IL.
131. V. Sendijarevic, A. Sendijarevic, Z. Chen, H. Ullah, D. Klemptner and K.C. Frisch, "Recycling of Automotive Shredder Residue Using Isocyanate-Based Binders," Proceedings from SPI Polyurethane Division meeting, September 26-29, 1995, Chicago, IL, p. 397.
132. A. Sendijarevic, V. Sendijarevic, X. Wang, A. Haidar, U. Dutta, D. Klemptner and K.C. Frisch, "Urethane-Modified Asphalt for Pavement Overlays/Wearing Courses for Road Applications," Proceedings from SPI Polyurethane Division meeting, September 26-29, 1995, Chicago, IL.
133. V. Sendijarevic, A. Sendijarevic, H. Ullah, K.C. Frisch, and D. Klemptner, "Utilization of Automotive Shredder Residue in Composite Applications," Advanced Composites, 617 (1995).
134. B. Suthar, H.X. Xiao, J.E. Kresta, X.H. Li, S.P. Sun, K.C. Frisch, and D. Klemptner, "Recycling of Thermoset Polymers and Composites: I. Chemical Decrosslinking of Polyurethane-Urea RIM", p. 285 (1996).
135. D.L. Garrett, Jr., D. Klemptner, J.J. Meister, J.E. Kresta, Q. Zhao, and U. Gupta, "Recycling of an Industrial Re grind of Pigmented Polypropylene Into Appearance Parts", The Intersociety Polymer Conference, Baltimore, MD, October 7-10, 1995.
136. V. Sendijarevic, A. Sendijarevic, H. Ullah, S. Ghazi, B. Pokorski, D. Klemptner, and K.C. Frisch, "Recycling of Automotive Shredder Residue," Proceedings of the Third Annual Automotive & Transportation Interiors Conference, Detroit, MI, May 7-9, 1996, pp. 70-80.
137. V. Sendijarevic, A. Sendijarevic, Z. Chen, H. Ullah, D. Klemptner, and K.C. Frisch, "Utilization of Automotive Shredder Residue in Composite Applications", Proceedings of the 11th Annual ESD Advanced Composites Conference & Exposition, Dearborn, MI, November 6-9, 1995, p. 617.
138. H.X. Xiao, X.H. Li, J.E. Kresta, B. Suthar, S.P. Sun, K.C. Frisch, and D. Klemptner, "Recycling of Thermoset Polymers and Composites: Studies on the Applications of Decrosslinked Polyurethane-Urea RIM", p. 301.
139. H.X. Xiao and B. Suthar, "Recycling of Thermoset Polymers and Composites," Proceedings for the 29th International Symposium on Automotive Technology and Automation, June, 1996, Florence, Italy.
140. B. Suthar, H.X. Xiao, D. Klemptner and K.C. Frisch, "A Review of Kinetic Studies on the Formation of Interpenetrating Polymer Networks," Polymers for Advanced Technologies, Vol 7, pp.221-233, John Wiley & Sons, Ltd. (1996).
141. H.X. Xiao, X.H. Li, J.E. Kresta, B. Suthar, S.P. Sun, K.C. Frisch and D. Klemptner, 29th International Symposium on Automotive Technology and Automation, Florence, Italy, 285, (1996).

142. V. Sendijarevic, B. Pokorski, D. Klempner and K.C. Frisch, "Recent Developments in Shredder Downstream Separation Processes and Recycling Options for Automotive Shredder Residue," SAE Paper #970663 (Feb., 1997).
143. V. Sendijarevic, A. Sendijarevic, B. Pokorski, D. Klempner, K.C. Frisch, "Recycling of Automotive Shredder Residue - Recent Developments in Shredder Downstream Processes," in Technology: The Spark of Recycling, edited by P.M. Subramanian (1996).
144. G.M. Gebreselassie, Harold Wolf, Vahid Sendijarevic, Qavi Anjum, Daniel Klempner, and K.C. Frisch, "Utilization of Isocyanate-based Binders in Recycling of Automotive Composite Headliners," SAE paper #980949, 115 (1998).
145. J.E. Kresta, H.X. Xiao, B. Suthar, D. Klempner, and S. Boros, "New Approach to Recycling of Thermosets," UPAC International Symposium, Institut Quimic de Sarria, Barcelona, Spain, July 14-17, 1997.
146. Utpal Dutta, Imran Ibadat, Daniel Klempner, and Mohammad S. Keshawarz, "Laboratory Performance of ASR Modified Asphalt Binders," Journal of Elastomers and Plastics, Vol. 29, No. 4, October, 1997.
147. D. Garrett, J.E. Kresta, D. Klempner, V. Sendijarevic, U. Dutta, "Recycling of Mixed Color Automotive Thermoplastics," SAE paper #981155, 132 (1998).
148. G.M. Gebreselassie, Harold Wolf, V. Sendijarevic, Q. Anjum, D. Klempner, and K.C. Frisch, "Utilization of Scrap Automotive Headliners for Interior Trim Applications," Automotive & Transportation Interiors Expo Conference, Session 5, 1998.
149. V. Sendijarevic, Q. Anjum, D. Klempner, and K.C. Frisch, A Recycling of Automotive Headliners Using Isocyanate-Based Binders,@ Polyurethane Expo >98, 655 (1998).
150. V. Sendijarevic, Q. Anjum, D. Klempner, K.C. Frisch, G. Gebreselassie, and H. Wolf, A Utilization of Isocyanate-Based Binders in Recycling of Scrap Automotive Headliners,@ Advances in Plastics Recycling, 1, 241 (1999).
151. V. Sendijarevic, Q. Anjum, D. Klempner, K.C. Frisch, G. Gebreselassie, and H. Wolf, A Manufacturing and Properties of Interior Trim Products from Headliner Scrap,@ SAE paper #1999-01-0362), (1999).
152. G. Gebreselassie, H. Wolf, V. Sendijarevic, Q. Anjum, D. Klempner, and K.C. Frisch, A Recycled Automotive Interior Trim Parts,@ ARC >99 Proceedings (in press).
153. D. Klempner, K.C. Frisch, B. Pokorski, and V. Sendijarevic, A Characterization of Various ASR Streams,@ SAE paper #1999-01-0670 (1999).
154. J.E. Kresta, D. Klempner, H.X. Xiao, K.C. Frisch, A Recycling Process for Cross- Member Parts: Scale-up and Economics,@ SAE paper (1999).
155. G. M. Gebreselassie, H. Wolf, V. Sendijarevic, Q. Anjum, D. Klempner, K. C. Frisch, A Utilization of Polyurethane Foam Scrap as the Sole Binder for Recycling Automotive Interior Trim Parts,@ Polyurethane Expo 99, 367 (1999)
156. G. Gebreselassie, H. Wolf, V. Sendijarevic, Q. Anjum, D. Klempner, K. C. Frisch, A Polyurethane Foam Scrap as a Binder@, UTECH 2000, 60 (2000).
157. G. Gebreselassie, H. Wolf, V. Sendijarevic, Q. Anjum, D. Klempner, and K.C. Frisch, Polyurethane Foam Scrap as a Binder, J. Cell. Plastics, 36, (2000)
158. M. Hailat, H. X. Xiao, K. C. Frisch and D. Klempner, Studies on the Modification of Thermoplastic Polyolefins II, J. Elastomers and Plastics, **33**, 154 (2001)

BOOKS

1. K.C. Frisch, D. Klempler and A. Patsis, "Polyelectrolytes," Technomic Publishing Co., Westport, CT (1976).
2. D. Klempler and K.C. Frisch, "Polymer Alloys: Blends, Blocks, Grafts and Interpenetrating Networks," Plenum Press, New York, (1977).
3. D. Klempler and K.C. Frisch, "Polymer Alloys II," Plenum Press, New York, (1980).
4. D. Klempler and K.C. Frisch, "Advances in Urethane Science and Technology," Vol.8, Technomic Publishing Co., Westport, CT (1981).
5. D. Klempler and K.C. Frisch, "Polymer Alloys III," Plenum Press, New York, (1982).
6. K.C. Frisch and D. Klempler, "Advances in Urethane Science and Technology," Vol. 9, Technomic Publishing Co., Westport, CT (1984).
7. K. C. Frisch and D. Klempler, "Advances in Urethane Science and Technology," Vol.10, Technomic Publishing Co., Westport, CT (1987).
8. Kurt C. Frisch, Jr. and D. Klempler, "Recent Developments in Polyurethanes and Interpenetrating Polymer Networks", Technomic Publishing Co., Westport, CT, (1988).
9. D. Klempler and K.C. Frisch, "Advances in IPNs, Vol. 1", Technomic Publishing Co., Lancaster, PA (1989).
10. D. Klempler and K.C. Frisch, "Advances in IPNs, Vol. 2", Technomic Publishing Co., Lancaster, PA (1990).
11. D. Klempler and K. C. Frisch, AHandbook of Polymeric Foam@, Hanser Publishers, New York (1991).
12. D. Klempler and K.C. Frisch, "Advances in IPNs, Vol. 3", Technomic Publishing Co., Lancaster, PA (1991).
13. K.C. Frisch and D. Klempler, "Advances in Urethane Science and Technology", Vol. 11, Technomic Publishing Co., Lancaster, PA (1992)
14. K.C. Frisch and D. Klempler, "Advances in Urethane Science and Technology", Vol. 12, Technomic Publishing Co., Lancaster, PA (1992).
15. D. Klempler, L.H. Sperling, and L.A. Utracki, "Interpenetrating Polymer Networks", Advances in Chemistry Series, 239, American Chemical Society (1994).
16. D. Klempler, K.C. Frisch, "Advances in IPNs, Vol. 4", Technomic Publishing Co., Lancaster, PA (1994).
17. K.C. Frisch and D. Klempler, "Advances in Urethane Science and Technology," Vol.13, Technomics Publishing Co., Lancaster, PA (1996).
18. K.C. Frisch and D. Klempler, "Advances in Urethane Science and Technology," Vol. 14, Technomics Publishing Co., Lancaster, PA (1997).
19. K.C. Frisch, D. Klempler and G. Prentice, "Advances in Plastics Recycling, Polyurethanes," Volume 1, Technomics Publishing Co., Lancaster, PA (1999).
20. K.C. Frisch, D. Klempler, and G. Prentice, Advances in Plastics Recycling@, Volume 2, Technomic Publishing Co., Lancaster, PA (in press).
21. K.C. Frisch and D. Klempler, Advances in Urethane Science and Technology", Rapra, United Kingdom (2001)

PATENTS

Belgium 774,750 Nov. 12, 1971

France 71,39136 May 2, 1972

Italy 937,807 Dec. 9, 1972

Great Britain 1,367,330 Jan. 15, 1975

Switzerland 557,848 Jan. 15, 1975

Japan SHO-52-499 Jan. 8, 1977

Canada 1,027,689 Mar. 7, 1978

United States 4,302,553 Nov. 24, 1981

United States 4,414,174 Oct. 20, 1983

United States 5,807,513 Sept. 15, 1998

United States 6,110,580 Aug.29, 2000

United States 6,180,192 Jan. 30, 2001

United States 6,299,811 Oct. 9, 2001