

1968

- PL-** •**Yurdagal Ozacayir**, “Stabilization of Plasticized Geon 101-EP PVC Resin with Laurates of Group II-A and II-B Metals” (Advisor: R.D. Deanin)
- PL-** •**Ismail Samy Rabinovic**, “A Comparison of Methyl Methacrylate-Butadiene-Styrene vs. Acrylonitrile-Butadiene-Styrene Graft Copolymers” (Advisor: R.D. Deanin).

1970

- PL-1** •**Praful R. Desai**, “Effect of Molecular Weight and Molecular Weight Distribution on the Practical Properties of Polymers”, (Advisor: R.D. Deanin)
- PL-2** **Frank J. Borzenski**, “Insipient Degradation of Poly(Vinyl Chloride)” (Advisor: R.D. Deanin).
- PL-3** **Frank C. Jaarsma**, “Fine Structure and Mechanical Property Studies on Extruded Poly (Ethylene Terephthalate) Rods Subjected to Certain Fiber Forming Processes” (Advisor: A.M. Crugnola).
- PL-4** •**Edward J. Ellis**, “Rigid Urethane Plastics”, (Advisor: R.D. Deanin).

1971

- PL-1** •**Dinshaw F. Bardoliwalla**, “Flame Retardants for Polymethyl Methacrylate” (Advisor, R.D. Deanin).
- PL-2** **Ira Linzer**, “Ultraviolet Light Degradable Plastics” (Advisor: R.O. Normandin).
- PL-3** **Robert M. Foss**, “Some Effects of Stabilizer Concentration and Combination in the Thermal Stabilization of a Plasticized Polyvinyl Chloride Formulation” (Advisor: R.D. Deanin).
- PL-4** **Vittorino G. Dossi**, “One-Step Preparation of Polyester”, (Advisor, R.D. Deanin).
- PL-** •**William E. Betourney**, “All-Acrylic Weather-Resistant Impact Plastic” (Advisor: R.D. Deanin).
- PL-** •**Madhukanta N. Lodaria**, “Process-Induced Structure and Property Changes in Synthetic Fibers” (Advisor: A.M. Crugnola).

1972

- PL-1** **William J. McNally**, “A Bibliography of Commercial Polymerization Practice” (Advisor: R.D. Deanin).
- PL-2** **Donald V. Rosato**, “Markets for Plastics: Past, Present and Future” (Advisor: R.D. Deanin).
- PL-2** **Pranav P. Antani**, “Flame-Retardant for Acrylonitrile-Butadiene-Styrene (ABS)” (Advisor: R.O. Normandin).
- PL-3** **Jose M. Jimenez-Ruvalcaba**, “Stearyl Isocyanate as Coupling Agent for Clay in Polyethylene” (Advisor: R.D. Deanin).
- PL-4** **Ashok K. Mehta**, “Rigid Solid Thermoset Polyurethane Formulations” (Advisor: R.D. Deanin).

1972 (cont.)

PL-5 **Stephen B. Driscoll**, "Comparison of Plastics by Cost per Specific Property" (Advisor: R.D. Deanin).

PL-6 **John W. Blair**, "Plastics Economics - Overhead" (Advisor: R.D. Deanin).

1973

PL-1 **Donna Rae Debula**, "Ultraviolet Stabilization of ABS" (Advisor: R.D. Deanin).

PL-2 **Michael G. Young**, "Polymer Education in the United States" (Advisor: J.C. Salamone).

PL-3 **William G. Perkins**, "Thermal Stabilization of Plasticized Polyvinyl Chloride Using Combinations of Five Stabilizers" (Advisor: R.D. Deanin).

PL-4 **Cyrus Moshar**, "PVC/ABS Polyblends" (Advisor: R.D. Deanin).

PL-5 **James Madenjian, Jr.**, "Morphological and Mechanical Property Studies on Poly (Ethylene Terephthalate) Films Subjected to Thermal and Dielectric Crystallization" (Advisor: A.M. Crugnola).

PL-6 **•Douglas J. Malloy**, "Reuse of Polymer Waste" (Advisor: R.O. Normandin).

PL-7 **Masahiko Sanada**, "Economics of Plastic Molding Processes" (Advisor: R.D. Deanin).

PL-8 **John A. Zgrebnak**, "Epoxy/Urethane Copolymers" (Advisor: R.D. Deanin).

PL-9 **Jeffrey N. Berg**, "Motionless Mixing and Residence Time Distribution in Plasticating Extrusion" (Advisor: N.R. Schott).

PL-10 **Vipin V. Patel**, "Solid Plasticizers in Rigid Polyvinyl Chloride" (Advisor: R.D. Deanin).

PL-11 **Leslie H. Lak**, "Analysis of Recycle Operations in Plastics Processing" (Advisor: N.R. Schott).

PL-12 **•David C. Raia**, "Synthesis and Properties of Polyvinylimidazolium Sulfobetaines" (Advisor: J.C. Salamone).

PL-13 **Costas N. Georgacopoulos**, "Polyvinyl Chloride Foam Structures and Properties" (Advisor: R.D. Deanin).

PL-14 **Richard A. Hatfield**, "The Acceleration of Ultraviolet Degradation in Polypropylene" (Advisor: R.D. Deanin).

PL-15 **Edward A. Muccio**, "Antistatic Agents" (Advisor: R.D. Deanin).

PL-16 **Manoj H. Akkad**, "Economics of Injection Molding" (Advisor: R.D. Deanin).

PL-17 **Govind M. Bommi**, "Motionless Mixing in Plasticating Extrusion" (Advisor: N.R. Schott).

PL-18 **Alan L. Litman**, "The Effect of Various Chrysotile Asbestos Fiber Parameters and Polymer Molecular Weight on the Mechanical and Thermal Properties of Reinforced Rigid Poly (Vinyl Chloride)" (Advisor: A.M. Crugnola).

1973 (cont.)

- PL-19** **Dahyabhai R. Patel**, "Properties and Structure Studies on Polyester and Nylon Yarns" (Advisor: A.M. Crugnola).
- PL-20** **Joseph Kai-Yuen Kiang**, "Motionless Mixing in the Injection Molding Nozzle" (Advisor: N.R. Schott).
- PL-21** **Vikram C. Kapasi**, "Composition, Structure and Properties of Plasticized Polyvinyl Chloride Foam Chemically Blown at Atmospheric Pressure" (Advisor: R.D. Deanin).
- PL-22** **•Sharad B. Shah**, "Hysteresis in Plasticized Polyvinyl Chloride" (Advisor: R.D. Deanin).
- PL-23** **Nishith J. Jhaveri**, "Graphite Fiber Reinforcement in Thermoplastics" (Advisor: A.M. Crugnola).
- PL-24** **Charles R. Wilson, Sr.**, "Some Applications of Gel Permeation Chromatography to Plastics Technology" (Advisor: J.C. Salamone).
- PL-25** **Chuck-Ping Chu**, "The Nuclear Magnetic Resonance Studies of Polyvinyl Alcohol and Polyvinyl Acetate" (Advisor: A.C. Watterson).
- PL-26** **Dennis H. Hagler**, "The Manufacturing Costs of Plastics" (Advisor: R.D. Deanin).
- PL-27** **Ramesh V. Parekh**, "Carbon Black Reinforcement in Plasticized Polyvinyl Chloride" (Advisor: R.D. Deanin).

1974

- PL-1** **Mazhar Mohiuddin**, "Determination of Peclet Numbers of the Motionless Mixers for Plastics Processing" (Advisor: N.R. Schott).
- PL-1** **Hemant R. Shah**, "Interaction of Polymer Molecular Weight and Solid Plasticizer in Rigid Vinyl Plastics" (Advisor: R.D. Deanin).
- PL-2** **Charles P. Kannankeril**, "LDPE < HDPE, PP/Butyl Rubber Polyblends: Practical Properties and Theoretical Problems" (Advisor: R.D. Deanin).
- PL-3** **Rajendra S. Shah**, "Heat Balance in the Cooling of the Injection Mold" (Advisor: N.R. Schott).
- PL-4** **Dilip Dhabalia**, "Production of ABS by Polyblending in Motionless Mixers" (Advisor: N.R. Schott).
- PL-5** **George N. Ong**, "Drying of Plastic Resins" (Advisor: N.R. Schott).
- PL-6** **Philip Maher**, "Flame Retardants for Polymethyl Methacrylate" (Advisor: R.D. Deanin).
- PL-7** **Narayan J. Patel**, "Solid vs. Liquid Plasticizers in Rigid Polyvinyl Chloride" (Advisor: R.D. Deanin).
- PL-8** **David Ou-Yang**, "Thermal Analysis of Poly(n-Hexyl Isocyanate)" (Advisor: S.B. Clough).
- PL-9** **Harshad R. Vyas**, "PVC/Acrylic Polyblends" (Advisor: R.D. Deanin).

1974 (cont.)

- PL-10 Ghanshyam J. Patel**, “Filler Reinforcement of Plasticized Polyvinyl Chloride” (Advisors: R.O. Normandin/R.D. Deanin).
- PL-11 Pradeep H. Gohil**, “Drop Size Generation in LPD Motionless Mixers” (Advisor: N.R. Schott).
- PL-12 Lalbhai B. Patel**, “Relationship Between Structure, Properties, Friction and Abrasion Resistance of Polyethylenes” (Advisor: R.D. Deanin).
- PL-13 John P. Dagdigian**, “Chlorinated Paraffin Plasticizers for Polyvinyl Chloride” (Advisor: R.D. Deanin).
- PL-14 William F. Moloney, Jr.**, “The Elements of Profitability in the Plastics Industry” (Advisor: R.D. Deanin).
- PL-15 Kalidas R. Patel**, “Carbon Black Reinforcement of ABS” (Advisor: R.D. Deanin).
- PL-16 Charles C. Kourkoulakos**, “Use of Mathematical Extrapolation to Predict Future Plastics Production” (Advisor: R.D. Deanin).
- PL-17 Leo J. Storch**, “Cyclic Polyols in Rigid Solid Thermoset Polyurethanes” (Advisor: R.D. Deanin).
- PL-18 Stephen A. Orroth, Jr.**, “Infrared Melt Temperature Measurements in Injection Molding of Thermoplastics” (Advisor: N.R. Schott).
- PL-19 •Tain-Yew Shi**, “Polyester Fiber/Multifiber Reinforced Polystyrene” (Advisor: A.M. Crugnola).
- PL-20 Ramesh J. Patel**, “Melt Processability of Vinyl Flooring” (Advisor: R.D. Deanin).

1975

- PL-1 Charles J. Abati**, “Effect of Plasticized Polyvinyl Chloride Composition on the Modulus vs. Temperature Curve” (Advisor: R.D. Deanin).
- PL-2 Wilson C. Dubois**, “Rigid Solid Thermoplastic Polyurethanes” (Advisor: R.D. Deanin).
- PL-3 Praful N. Sanghrajka**, “Sources of Information for Manufacturing Costs and Marketing Economics in the Plastics Industry” (Advisor: R.D. Deanin).
- PL-4 Niyogi H. Ramolia**, “The Role of Cadmium Chloride in the Stability of Polyvinyl Chloride” (Advisor: R.D. Deanin).
- PL-5 Jitendra J. Modi**, “The Role of Zinc Chloride in the Stability of Polyvinyl Chloride” (Advisor: R.D. Deanin).
- PL-6 •William J. Gillette**, “Anaerobic Stability of Polyvinyl Chloride” (Advisor: R.D. Deanin).
- PL-7 Indrajit T. Patel**, “Structure, Friction, and Abrasion in Plasticized Polyvinyl Chloride” (Advisor: R.O. Normandin).
- PL-8 Arunkumar Patel**, “Dry Blending of Polypropylene and Talc in Motionless Mixers” (Advisor: N.R. Schott).

1975 (cont.)

- PL-9** **Lawrence J. Willwerth**, “The Ultraviolet Stabilization of Polyurethane Coatings” (Advisor: R.D. Deanin).
- PL-10** **George D.M. Pushee III**, “Cold Working of Polymers” (Advisor: R.D. Deanin).
- PL-11** •**Chandrakant N. Patel**, “Plasticization of Polymethyl Methacrylate” (Advisor: R.D. Deanin).
- PL-12** **Richard R. Geoffroy**, “The Use of Physical Properties as a Measure of Practical Compatibility in Polyblends” (Advisor: R.D. Deanin).
- PL-13** **George J. Patterson**, “Plastics Book List” (Advisor: R.D. Deanin).
- PL-14** **Pankaj J. Parikh**, “Structural Studies of Polymers with Mesomorphic Ordering” (Advisor: S.B. Clough).
- PL-15** **Anwar K. Laliwala**, “Dechlorane Plus 515 as a Flame-Retardant in Thermoplastics” (Advisors: R.D. Deanin/S.B. Driscoll).
- PL-16** **Anil G. Doshi**, “Tensile Behavior of Plasticized Polyvinyl Chloride Foam” (Advisor: R.D. Deanin).
- PL-16** **Aziz H. Calcuttawala**, “Open-Cell Plasticized Polyvinyl Chloride Foams from Mechanically-Frothed Plastics” (Advisor: R.D. Deanin).
- PL-17** **Mark S. Corbett**, “Poly(Methyl Methacrylate) vs. Poly(Dimethyl Itaconate)” (Advisor: R.D. Deanin).
- PL-18** **Stanley M. Nalepa**, “Tricresyl Phosphate and Dioctyl Sebacate Plasticizers in Polyvinyl Chloride Compositions: Their Effect on the Modulus versus Temperature Curve” (Advisor: R.D. Deanin).
- PL-19** **Piyush J. Reshamwala**, “Thermodynamic and Thermal Properties of Common Thermoplastics” (Advisor: N.R. Schott).

1976

- PL-1** **George J. Ouellette, Jr.**, “Synergisms of Halogen/Antimony Flame Retardants in Acrylonitrile-Butadiene-Styrene (ABS)” (Advisors: R.D. Deanin/R.O. Normandin).
- PL-2** **Mingzong J. Wu**, “A systematic Study of Particle Dispersion and Residence Time Distribution in a Single Screw Extruder” (Advisor, N.R. Schott).
- PL-3** •**Steven J. Iannelli**, “Rheology of Plastics” (Advisor: N.R. Schott).
- PL-4** •**Deepak R. Gandhi**, “Effects of Irradiation on Acrylic Bone Cements” (Advisor: A.M. Crugnola).
- PL-5** **Stephen B. Rimsa**, “Electroplating Ionomeric Polyethylene” (Advisor: J.C. Salamone).
- PL-6** **Margarita Tsirigotis**, “Modern Plastics Magazine as a Source of Plastics Market Analysis Data” (Advisor: R.D. Deanin).

1976 (cont.)

- PL-7** **Walter C. Webster III**, "Two-Component Polyurethane Coatings for Wood" (Advisor: R.D. Deanin).
- PL-8** **Robert J. Pierotti, Jr.**, "Accelerated Aging Study of UV Stabilized Rubber Modified Polystyrene" (Advisor: R.D. Deanin).
- PL-9** •**Mark B. Berry**, "The Characterization of Ultrahigh Molecular Weight Polyethylene in Total Hip Prostheses" (Advisor: A.M. Crugnola).
- PL-10** •**Carlos M. Weininger**, "Parameters in Single Screw Extrusion of Polyethylene Foam" (Advisor: N.R. Schott).
- PL-11** **Allen S. Chiu**, "An Electrical Analog Study of the Injection Mold" (Advisor: N.R. Schott).
- PL-12** **Victor M. Ki**, "Experimental Measurement of Axial Peclet Numbers in Motionless Mixers" (Advisor, N.R. Schott).
- PL-13** **Pedro F. Rondon**, "Injection Molding Process Control" (Advisor, N.R. Schott).
- PL-14** **Linglong Chao**, "Investigation of the Stiffness and Tensile Strength of Fabric Made by Stitching a Water-Soluble Paper" (Advisor: E.S. Arnold).
- PL-15** **Bipin C. Lotia**, "Reinforced Polyurethane Foam" (Advisor: R.D. Deanin).
- PL-16** •**Satish J. Doshi**, "Use of Glass Fiber Reinforcement to Upgrade the Properties of Recycled High-Density Polyethylene" (Advisor: R.D. Deanin).

1977

- PL-1** **Ramesh Raval**, "PVC/Acrylic Polyblending in Motionless Mixers" (Advisor: N.R. Schott).
- PL-2** **Jitendra D. Shah**, "Technology and Morphological Characterization of Chemically Blown Closed Cell Polyvinyl Chloride Foam" (Advisor: R.D. Deanin).
- PL-3** **Stanley W. Tozowski**, "Rheological Characterization of Ceramic/Polyolefin Systems Suited for Injection Molding" (Advisor: N.R. Schott).
- PL-4** **Malalur V. Murthy**, "Temperature Measuring Characteristics of an Infrared Fiber Optic Probe in Plastics Melts" (Advisor: N.R. Schott).
- PL-5** **Shirish C. Mehta**, "Dawsonite as a Reinforcement in Thermoplastics" (Advisor: S.A. Orroth).
- PL-6** •**Leo J. Montagna**, "Rheology and Orientation in Injection Molding of Polystyrene" (Advisor: R.W. Ehlers).
- PL-7** **Gaurang G. Shah**, "Pressure Drop Correlation in ISG Motionless Mixers" (Advisor: N.R. Schott).
- PL-8** **John T. Krowchun**, "Thermoplastic Polyurethane Polyblends" (Advisor: S.B. Driscoll).
- PL-9** **May A. Ikokwu**, "Environmental Stress-Cracking of Polyethylene in Bovine Serum" (Advisor: A.M. Crugnola).

1977 (cont).

- PL-10 Vishu Shah**, "Calorimetric Measurements in the Injection Molding Process of Ceramic" (Advisor: N.R. Schott).
- PL-11 Joseph J. McMahon**, "Peak Cavity Pressure Control in Injection Molding: An Analysis of its Use in an Unstable Molding Operation" (Advisor: N.R. Schott).
- PL-12 Harvey H. Chung**, "Time-Temperature-Moisture Studies on Graphite Fiber Reinforced Epoxy Composites" (Advisor: A.M. Crugnola).
- PL-13 Douglas J. Yuu**, "Drop Size Generation in the Ross LPD and LLPD Motionless Mixers" (Advisor: N.R. Schott).
- PL-14 Marcos F. Sansone**, "Polyblends of Polyethylenes and Polypropylene: Compatibility and Practical Properties" (Advisor: R.D. Deanin).
- PL-15 Thomas Yip**, "A Comparison of Conventional, Sequential and Simultaneous False-Twist Textured Polyester Yarns" (Advisor: A.M. Crugnola).
- PL-16 Young-Her Wang**, "Molecular Structure and Mechanical Property Studies on Melt Spun Poly(Butylene Terephthalate) Filaments (Advisors: A.M. Crugnola/S.A. Orroth).
- PL-16 Robert R. Andrews**, "Emulsion Polymerization of Polystyrene in Batch Reactors" (Advisor: N.R. Schott).
- PL-17 James S. Tedesco**, "Fibrous Reinforcements of Acrylic Bone Cement" (Advisor: A.M. Crugnola).
- PL-18 Gordon L. Thatcher**, "Textbook of Plastics Mold Engineering" (Advisor: R.D. Deanin).
- PL-19 Gyanendra Gupta**, "Effects of Trace Concentrations of Zinc Chloride on the Stability of Polyvinyl Chloride" (Advisor: R.D. Deanin).
- PL-20 Cheng-Chih Wang**, "Blending Deniers of Orlon Fiber" (Advisor: C.J. Pope).

1978

- PL-1 Frances B. Peters**, "Shear Properties of Hook and Loop Fasteners" (Advisor: D.H. Pfister).
- PL-2 Peter C. Kwong**, "Thermal Expansion Coefficients of Filled High-Density Polyethylenes" (Advisor: R.D. Deanin).
- PL-3 Chimanbhai V. Patel**, "Rheology of B-Stage Phenolic Resins" (Advisor: N.R. Schott).
- PL-4 Alfredo E. Ramirez**, "Analysis and Measurement of Flow Orientation in Amorphous Injection Moldings" (Advisor: N.R. Schott).
- PL-5 Susan B. Poulin**, "Studies of Polyelectrolyte Complexes" (Advisor: J.C. Salamone).
- PL-6 Surendra R. Shah**, "Extrusion of Structural Foam Profiles" (Advisor: N.R. Schott).

1979

- PL-1 Bharat V. Ashar**, "Recycle of Phenolic Scrap" (Advisor: R.D. Deanin).

1979 (cont).

- PL-2** **Tung-Ning Cherng**, “Man-Made Blood Vessel Prosthesis Review and Evaluation” (Advisor: A.M. Crugnola).
- PL-3** **Yi-Lee Chen**, “Recycling Polypropylene Fabric with Virgin Material by Melt Spun Filaments” (Advisor: C.J. Pope).
- PL-4** **James H. Rainey**, “Use of Computers in Injection Molding” (Advisor: N.R. Schott).
- PL-5** **Alton L. Seaver**, “Microscopic Studies of Ultra High Molecular Weight Polyethylene Base Resins and Fabricated Parts” (Advisor: A.M. Crugnola).
- PL-6** **Kin-Chan Chen**, “Effect of Molding Cycle on the Molecular Structure and Abrasion Resistance of Ultrahigh Molecular Weight Polyethylene” (Advisor: A.M. Crugnola).
- PL-7** **•Ching-Tai Lue**, “Effects of Gamma Irradiation and Post Heat-Treatments on the Structure and Mechanical Properties of Ultrahigh Molecular Weight Polyethylene” (Advisor: A.M. Crugnola).
- PL-8** **Kiran B. Sheth**, “Polyblends of Polyvinyl Chloride with Butadiene/ Acrylonitrile Rubber” (Advisor: R.D. Deanin).
- PL-9** **Joseph S. Chiang**, “The Role and Voids and Gamma Irradiation in the Fracture of Acrylic Cements” (Advisor: A.M. Crugnola).
- PL-10** **Anoop Agrawal**, “Design and Fabrication of a Picking Mechanism for Energy Reduction in Weaving” (Advisor: A. Tayebi).
- PL-11** **Carl R. Smith**, “Compounding, Processing, and Mechanical Property Evaluation of Polyester/Aramid Fiber Composites” (Advisor: N.R. Schott).
- PL-12** **Noel Vander**, “An Inherent Problem with Insulated Hot-Runner Molds” (Advisor: N.R. Schott).
- PL-13** **Gaspare E. D’Isidoro**, “Polyblends of High-Density Polyethylene with Polypropylene: Compatibility and Practical Properties” (Advisor R.D. Deanin).

1980

- PL-1** **Angelo S. Hadjidakis**, “Evaluation of the Proportional Band Width Settings of the Extruder Barrel Temperature Controller” (Advisor: N.R. Schott).
- PL-2** **Peter F. Grelle**, “Trimming Characteristics of Plastic Sheeting” (Advisor: S.A. Orroth).
- PL-3** **Nuno M. Rei**, “Microbiological Deterioration of UV Degraded Polymers” (Advisor: R.D. Deanin).
- PL-4** **Deborah I. Hauser**, “Characterization of Sodium Borohydride Blown Urethane Foam” (Advisor: R.D. Deanin).
- PL-5** **Eugene P. Hendriks**, “Chemical and Engineering News as a Source of Polymer Market Analysis Data” (Advisor: R.D. Deanin).

1980 (cont.)

- PL-6 Mukesh R. Shah**, "Polyblends of Polyvinyl Chloride with Chlorinated Polyethylenes" (Advisor: R.D. Deanin).
- PL-7 Norman J. Young**, "Electron Microscopy of Polyblends of Polyvinyl Chloride and Methyl Methacrylate/Butadiene/Styrene Terpolymer" (Advisor: R.D. Deanin).
- PL-8 Thaddeus Szymczak**, "EMI Shielding of Plastic Enclosures" (Advisor: R.D. Deanin).
- PL-9 Prakash R. Ajmera**, "Study of Blends of PET/PC and PET/PETG for Beverage Bottle Applications" (Advisor: N.R. Schott).
- PL-10 Kenneth E. Johnson**, "Energy Requirements on an Injection Molding Machine as a Function of Processing Conditions" (Advisor: N.R. Schott).
- PL-11 Ronald R. Martin**, "Survey of Polymer Education in the United States" (Advisor: R.D. Deanin).
- PL-12 Tejas Bakhai**, "Study of Morphology in Injection Molded Parts and its Correlation with Mechanical Properties" (Advisor: S.A. Orroth).
- PL-13 Diana V. Saleh**, "Effect of Temperature and Residence Time Distribution on Extruded Low Density Polyethylene Foam" (Advisor: N.R. Schott).
- PL-14 Carl L. Letendre**, "Non-Woven Kevlar® Reinforcement in Nylon 6/6: A Feasibility Study" (Advisor: N.R. Schott).

1981

- PL-1 Kuo-Hua Chen**, "Microstructure and Properties of Injection Molded Conductive Plastics" (Advisor: N.R. Schott).
- PL-2 Mark A. Yates**, "A Closed Structure Mandrel System for the Filament Winding Process" (Advisor: S.B. Driscoll).
- PL-3 William E. Haskell III**, "Effects of Processing on the Mechanical Properties of Carbon Short-Fiber Reinforced Polycarbonate" (Advisor: S.P. Petrie).
- PL-4 David L. McAuley**, "Interaction of Stabilizers and Colorants in High-Density Polyethylene" (Advisor: R.D. Deanin).
- PL-5 Donald J. Dempsey**, "Theories of Adhesion" (Advisor: R.D. Deanin).
- PL-6 Keshi Victor Chen**, "Investigation and Comparison of Needle-punch Felts Produced from Rando-Webber Batts and Laboratory Model Card Batts" (Advisor: C.J. Pope).
- PL-7 Robert J. Gardner**, "Effect of Relative Humidity on the Mechanical Properties of Poly(1,4-Butylene Terephthalate)" (Advisor: R.D. Deanin).
- PL-8 Ling-Chieh Yang**, "Rheology of Sawdust Filled Polymer" (Advisor: N.R. Schott).
- PL-9 Nikhil A. Shah**, "Polyblends of Polyvinyl Chloride with Ethylene Vinyl Acetate Copolymers" (Advisor: R.D. Deanin).

1981 (cont.)

- PL-10** **Brian J. Judge**, “Design, Fabrication and Operation of a Spring-Cam Shuttle Picking Mechanism” (Advisor: A. Tayebi).
- PL-11** **Steven R. Parsons**, “Heat Transfer in Chill Roll Operation” (Advisor: N.R. Schott).
- PL-12** **Hao A. Chen**, “An Investigation of Thermoformability of Bonded Porous Fibrous Sheets” (Advisor: A. Tayebi).
- PL-13** **Jeffrey O. Monti**, “Correlation of Die Shear to Surface Characteristics of PVC Wirecoating Resins” (Advisor: N.R. Schott).
- PL-14** **Mark Song-Chun Lee**, “A Second Generation of Acrylic Cements” (Advisor: A.M. Crugnola).
- PL-15** **Szu Cheng Chen**, “An Experimental Polyurea Filament” (Advisor: A.M. Crugnola).
- PL-16** **Carolina Cepeda**, “Mechanical Failure Mechanism of Molded Structural Foams of Polycarbonate and High Density Polyethylene” (Advisor: N.R. Schott).
- PL-17** **Jyhmei Y. Ellis**, “Procedures for Characterizing UHMWPE and Their Applications to Base Resins and Fabricated Parts” (Advisor: A.M. Crugnola).
- PL-18** **Norman E. Fowler**, “The Processing and Testing of Filled Conductive Plastic Materials” (Advisor: N.R. Schott).
- PL-19** **David E. Rahimian**, “Polyblends of Polyvinyl Chloride with Thermoplastic Polyurethanes” (Advisor: R.D. Deanin).

1982

- PL-1** **George C. Michaels**, “Glass-Fiber-Reinforced Rigid Polyvinyl Chloride” (Advisor: R.D. Deanin).
- PL-2** **Abraham Amran**, “Reinforcement of Recycled Polystyrene Scrap” (Advisor: R.D. Deanin).
- PL-3** **Alberto Yanes**, “Effect of Stress Concentration Around Holes on Creep of Structural Plastics” (Advisor: A. Tayebi).
- PL-4** **Siew-Ting Lim**, “Polyblending of Ethylene Propylene Rubber with Polyethylenes and Polypropylene” (Advisor: R.D. Deanin).
- PL-5** **Jorge Rais**, “Effect of Vermiculite on the Properties of Several Plastics Materials” (Advisor: S.B. Driscoll).
- PL-6** **John A. Hill III**, “use of Activated Organic Peroxides to Initiate Low Temperature Cross-Linking of a Poly(Dimethyl-co-Diphenyl) Siloxane Pressure-Sensitive Adhesive” (Advisor: R.D. Deanin).
- PL-7** **Gerardo Rocha**, “Glass-Fiber-Reinforced Poly(Butylene Terephthalate) Structural Foam” (Advisor: R.D. Deanin).
- PL-8** **Harshad P. Desai**, “Smoke Generation in Burning of Plasticized Polyvinyl Chloride” (Advisor: R.D. Deanin).

1982 (cont.)

- PL-9** **Cynthia M. Leavy**, “The Effects of Surfactants on a Water-Borne, Air-Dry Acrylic Latex Coating” (Advisor: R.D. Deanin).
- PL-10** **Alfons Stauner**, “Design and Testing of Wood/Polyurethane Foam/Polymer Concrete Modified Structures” (Advisors: N.R. Schott/S.A. Orroth).
- PL-11** **Parag Agarwal**, “Rigid Polyvinyl Chloride Foams” (Advisor: R.D. Deanin).
- PL-12** **Chih Ching Lin**, “The Rheology, Injection Molding Behavior and Physical Properties of Blends of Ultra High Molecular Weight Polyethylene and High Density Polyethylene” (Advisor: A. Crugnola).
- PL-13** **Karen A. Malburne**, “A Statistical Analysis of the Effect of Various Processing Parameters on the Mechanical and Physical Properties of Polyester Sheet Molding Compound” (Advisor: S.P. Petrie).
- PL-14** **Stephen H. Avedikian, Jr.**, “High Speed Thin-Walled Injection Molding of Poly-Para-Methylstyrene” (Advisor, S.P. Petrie).
- PL-15** **John J. DeLuca**, “Effects of Processing on the Optical Properties of a Transparent Polyurethane” (Advisor: S.P. Petrie).
- PL-16** **Raymond J. Tremblay**, “A Statistical Evaluation of Liquid Coupling Agents for Mica-Reinforced High Density Polyethylene” (Advisor: S.P. Petrie).
- PL-17** **Julliette M. Carignan**, “Computer Aided Design and Manufacturing (CAD/CAM) of Plastics Products” (Advisor: S.B. Driscoll).
- PL-18** **•Ram Saraogi**, “Recycling of Polystyrene Foam” (Advisor: _____).
- PL-19** **Robert A. Malloy**, “Self Threading Screw Boss Design for Modified Polyphenylene Oxide” (Advisor: S.A. Orroth).

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- PL-1** **Robert G. Speirs III**, “RIM/RRIM: A Technology Update and Assessment” (Advisor: S.B. Driscoll).
- PL-2** **Paul R. Boulier**, “Thermal Transitions and Test Methods for Polymers” (Advisor: R.D. Deanin).
- PL-3** **Sauraub H. Naik**, “Effect of Filler Characteristics on the Mechanical Properties of Plasticized Polyvinyl Chloride” (Advisor: R.D. Deanin).
- PL-4** **Young-Shun Chang**, “Polyblending of Styrene-Butadiene-Styrene Rubber with Polyethylenes and Polypropylene” (Advisor: R.D. Deanin).
- PL-5** **Chen-Yaw Chang**, “Measurement of Poisson’s Ratio for Plastics” (Advisor: A. Tayebi).
- PL-6** **John E. Fitzwater, Jr.**, “The Evaluation of Inorganic Salts as Flash Rust Inhibitors in a Water-Borne, Air Dry Latex Coating” (Advisor: R.D. Deanin).

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- PL-7** **Maureen M. Lein**, “The Development of an Aqueous Acrylic Coating for the Business Machine Market” (Advisor: R.D. Deanin).
- PL-8** **Melissa Farrah**, “Ultraviolet Aging of Transparent Plastic Coverplates for Solar Energy Equipment” (Advisor: R.D. Deanin).
- PL-9** **Michael J. O’Neil**, “Effects of Internal Lubrication on Liquid Injection Molded (LIM) Silicones” (Advisor: R.D. Deanin).
- PL-10** **Vincent A. Bourgault**, “Glass-Reinforced Low-Density Rigid Polyurethane Foam” (Advisor: R.D. Deanin).
- PL-11** **Kao-Ching Lin**, “Hydrophilic, Ampholytic Graft Copolymers” (Advisor: J.C. Salamone).
- PL-12** **Jia-Nong Ding**, “Polyblends of Polyvinyl Chloride with Thermoplastic Polyurethane and Acrylonitrile-Butadiene-Styrene” (Advisor: R.D. Deanin).
- PL-13** **Piaras V. deCleur**, “The Relationship Between Structure and Injection Molding Processability” (Advisor: R.D. Deanin).
- PL-14** **Madhukar R. Murarka**, “Structure and Properties of One-Shot Thermoplastic Polyurethane Elastomers” (Advisor: R.D. Deanin).

1984

- PL-1** **Chung-Wen Chu**, “Polyblends of Bisphenol A Polycarbonate with Acrylonitrile-Butadiene-Styrene Terpolymers” (Advisor: R.D. Deanin).
- PL-1** **Homayoun Khalili**, “Impact Strength of Hybrid Composites: A Review of Charpy, Izod and Tensile Impact Test Results” (Advisor: N.R. Schott).
- PL-2** **Steven H. Urdanoff**, “Power Consumption and Particle Size Measurements of Thermoplastic Granulation” (Advisor: S.J. Chen).
- PL-3** **Gary Chang Jeng Lu**, “Improving Ultrasonic Welding Horn and Fixture for Uniform Bonding” (Advisor: S.A. Orroth).
- PL-4** **Nizarali I. Virani**, “Effect of Molecular Weight and Gamma Irradiation on the Fatigue Life of Polyethylene” (Advisor: A.M. Crugnola).
- PL-5** **James R. Gilbert**, “Plastic Material Recycling and Disposal - Economic Advantages and Processing Technology” (Advisor: R.D. Deanin).
- PL-6** **Suzanne M. Rondeau**, “Injection Molding of Aluminum-Filled Polycarbonate Structural Foam for EMI Shielding” (Advisor: N.R. Schott).
- PL-7** **Milton C. Francis, Jr.**, “Current Trends within the Injection Molding Industry” (Advisor: N.R. Schott).
- PL-8** **Raymond W. Waitekus**, “Improving the Mechanical Properties of Acrylic Bone Cement by the Incorporation of Poly-N-Butyl Methacrylate” (Advisor: A.M. Crugnola).

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- PL-9** **Anthony T. Racca**, "Crises in the Plastics Industry 1960-1980", (Advisor: R.D. Deanin).
- PL-10** **Jacques C. Saade**, "Transient Strain Analysis in Plastic Film Stretching" (Advisor: A. Tayebi).
- PL-11** **Wie-Zen Lin Chuang**, "Polyblends of Polyvinyl Chloride with Chlorinated Polyethylene and Acrylonitrile-Butadiene-Styrene" (Advisor: R.D. Deanin).
- PL-12** **Thomas J. Murray, Jr.**, "Supercritical Extraction of Ashland-240 Petroleum Pitch" (Advisor: N.R. Schott).
- PL-13** **Sujal S. Rawal**, "A Novel Approach to Cationic Emulsion Polymerization" (Advisor: W.W. Bannister).
- PL-14** **Jaime H. Sayago**, "Recycling of Low Density Polyethylene Film" (Advisor: N.R. Schott).
- PL-15** **Lisa M. Lipomi**, "Processing of Various Polymer Blends by Twin-Screw Extrusion" (Advisor: S.A. Orroth).
- PL-16** **Muniyapla Eswarappa**, "Effects of Processing and Aerodynamic Parameters in Melt-Spinning of Fibers" (Advisor: A. Tayebi).
- PL-17** **Sanjay D. Patel**, "Polyblending of Polypropylene with EPDM Rubber Directly by Screw Injection Molding" (Advisor: R.D. Deanin).
- PL-18** **John E. Pacini**, "An Evaluation of Flame Retardants for Low Flame Spread-Low Smoke Polyethylene Wire Insulation" (Advisor: R.D. Deanin).
- PL-19** **David A. Janeczek**, "Nickel Coated Graphite Fiber Filled Electrically Conductive Polymeric Composites" (Advisor: S.B. Driscoll).

1985

- PL-1** **Frank H.Y. Tan**, "The Technology of Rubber Compounding and Processing" (Advisor: R.D. Deanin).
- PL-2** **Wen-Feng Liu**, "Polyblends of an Ionomer with Commercial Thermoplastics (Advisor: R.D. Deanin).
- PL-3** **Rohit C. Mehta**, "Biodegradation of Nylon-6" (Advisor: A.M. Crugnola).
- PL-4** **Vimal Surana**, "History of Commercial Plastics Materials" (Advisor: R.D. Deanin).
- PL-5** **Debra A. Tassone**, "The Effect of Dosage Rate on the Properties and Aging Behavior of Sterilized Polyethylene" (Advisor: A.M. Crugnola).
- PL-6** **Arthur R. Madenjian**, "Effect of Significant Processing Variables on Thermoplastic Matrix Pultruded Composites" (Advisor: N.R. Schott).
- PL-7** **Naresh R. Mehta**, "Rheological Characterization of Polyolefin Systems" (Advisor: S.B. Driscoll).
- PL-8** **Ram J. Baheti**, "Development of New Compounding Technology of Reinforced Rigid Poly(Vinyl Chloride)" (Advisor: S.B. Driscoll).

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- PL-9** **Jitendra Jherwar**, “An Investigation of the Mechanical Properties and Polyblend Compatibility of Nylon-6,6 with Sodium and Zinc Based Ethylene Ionomers” (Advisor: R.D. Deanin).
- PL-10** **David R. Kiernan**, “Modification of Epoxy Resins for Improved Pultrusion Processing” (Advisor: N.R. Schott).
- PL-11** **Polycarp C. Onaga**, “Crosslinked-Polystyrene as a Reinforcing Filler for General-Purpose Polystyrene” (Advisor: R.D. Deanin).
- PL-12** **John F. Martin**, “Starch Graft Copolymers for Adhesives” (Advisor: R.D. Deanin).
- PL-13** **Nitin Matani**, “Effect of Fiber Orientation on Mechanical Properties of Weld Lines” (Advisor: N.R. Schott).
- PL-14** **George W. Bourne IV**, “The Effects of Foam Molding on Physical Properties and Melt Viscosities of Polyphenylene Oxide Foam” (Advisor: R.D. Deanin).
- PL-15** **Philip M. Papoojian**, “Polymers for Electronic Applications” (Advisor: R.D. Deanin).
- PL-16** **Suresh Shah**, “Glass-Fiber-Reinforced Polycarbonate Structural Foam” (Advisor: R.D. Deanin).
- PL-17** **Frank D. Kos**, “Nonwoven Fabric Reinforced Polyvinyl Chloride Foam” (Advisor: R.D. Deanin).
- PL-18** **David R. Lessard**, “Thin-Walled Structural Foam Injection Molding” (Advisor: S.A. Orroth).
- PL-19** **Seng-Shiu Chung**, “DSC Studies for the Evaluation of Polymerization and Crystallization of Nylon-RIM Systems” (Advisor: S.J. Grossman).
- PL-20** **Steven G. Rosa**, “Glass-Fiber-Reinforced Cellulose Acetate Butyrate” (Advisor: R.D. Deanin).
- PL-21** **Rudolph G. Nwana**, “Effects of Loading at Stress Concentration Points in Structural Plastics” (Advisor: A. Tayebi).
- PL-22** **Jikuo Chang**, “Modification of Polystyrene by Styrene/Butadiene/Styrene Thermoplastic Elastomer” (Advisor: R.D. Deanin).
- PL-23** **Terry Tgavalekos**, “Plastics Coatings in Electronics” (Advisor: R.D. Deanin).
- PL-24** **Mostafa Talieh**, “Glass-Fiber-Reinforced Modified Poly (Phenylene Oxide) Structural Foam” (Advisor: R.D. Deanin).
- PL-25** **Kathleen A. Geddes**, “The Effects of Water Immersion on the Shear Strength of Epoxy-Bonded Stainless Steel” (Advisor: S.P. Petrie).
- PL-26** **Show-Mean Wu**, “Tensile Behavior Studies on Polyblend of Polystyrene and Styrene/Isoprene/Styrene Block Copolymer” (Advisor: J.C. Huang).
- PL-26** **Ping L. Ku**, “Polystyrene and Styrene Copolymers: Their Manufacture and Uses” (Advisor: R.D. Deanin).

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- PL-27** **Lakshmi N. Venkateshwaran**, "Evaluation of Foam Concentrates for Thermoplastic Structural Foam" (Advisor: S.B. Driscoll).
- PL-28** **Robert W. Simoneau**, "Physical Properties of Low Durometer Urethane-Urethane Composite Thermoset Elastomers" (Advisor: S.B. Driscoll).
- PL-29** **Robert F. Hurley**, "Polyblends of Polypropylene and SBS Triblock Copolymer Via In-House Compounding" (Advisor: R.D. Deanin).

1986

- PL-1** **Chaitanya S. Nadkarni**, "Recycling of the Mixed Plastics Fraction from Junked Autos by Addition of Thermosetting Resins and Low-Pressure Molding" (Advisor: R.D. Deanin).
- PL-2** **Donald P. Roche**, "Polymer Blends of Recycled Poly(Ethylene Terephthalate) and Recycled Polycarbonate" (Advisor: S.J. Grossman).
- PL-3** **Ali Manoochehri**, "Polyblends of Thermoplastics Polyurethane with Acrylonitrile-Butadiene-Styrene" (Advisor: R.D. Deanin).
- PL-4** **Joseph C. Rapuano**, "Rheological Behavior of Epoxy Resin Solution Coating System for Printed Circuit Laminates" (Advisor: S.B. Driscoll).
- PL-5** **Conchita V. Tran-Bruni**, "Recycling of Epoxy Resins" (Advisor: R.D. Deanin).
- PL-6** **Barron W. Tenney**, "Professional Placement of Lowell Plastics Graduates" (Advisor: R.D. Deanin).
- PL-7** **Robert A. Chiricosta**, "Survey of Degrees in Polymer Education in the United States" (Advisor: R.D. Deanin).
- CH-7*** **Amitkumar N. Dharia**, "Analysis of the Dip-Coating of Solid and Fibrous Substrates" (Advisor: N.R. Schott).
- PL-8** **David V. Gorky**, "Reliability of Selected Marketing Projections" (Advisor: S.B. Driscoll).
- PL-9** **Jay Parekh**, "Evaluation of Silicate Fillers for Polyester Bulk Molding Compound" (Advisor: S.B. Driscoll).
- PL-10** **Chetan J. Kanakia**, "Polyblends of Acrylonitrile-Butadiene-Styrene with Polyvinyl Chloride and Thermoplastic Polyurethane" (Advisor: R.D. Deanin).
- PL-11** **Andrew J. Kelly**, "Metal Cans and Their Coatings" (Advisor: R.D. Deanin).
- PL-12** **Cheng-Tung Huang**, "Polyethylene Glycol, Polypropylene Glycol as Plasticizers for Nylon 66" (Advisor: S.J. Grossman)
- PL-13** **David J. Butler**, "Theoretical and Practical Considerations of Rubber-to-Metal Bonding" (Advisor: R.D. Deanin).
- PL-14** **Sharon A. Sylvester**, "Bacterial Breakdown and/or Grow-Through Nylon 6 Film" (Advisor: A.M. Crugnola).

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- PL-15** **Sujal S. Rawal**, “Polyblends of Polyvinyl Chloride with Ethylene Vinyl Acetate Copolymers” (Advisor: R.D. Deanin).
- PL-16** **Yair Shomer**, “Statistical Evaluation of Closed Loop Process Control in Injection Molding” (Advisor: N.R. Schott).
- PL-17** **Chin-Ho Chen**, “An Investigation of PVC/MBS Blends” (Advisor: S.P. McCarthy).
- PL-18** **Chiachiu Kau**, “Expanded Polytetrafluoroethylene - A Study on the Methods of Fabrication and Properties Characterization” (Advisor: S.A. Orroth).
- PL-19** **Seyed M. Hashemiolya**, “Polyblends of Ground vulcanized Rubber with Eleven Thermoplastics” (Advisor: R.D. Deanin).
- PL-20** **Fuh-Sheng Chen**, “Weathering of Polyethylene Pipe Resins” (Advisor: N.R. Schott).
- PL-21** **Jenchien Chen**, “Fillers in Thermoplastic Polyurethanes” (Advisor: R.D. Deanin).
- PL-22** **Shian-Jenq Kuo**, “Feedblock Design and Laboratory Coextrusion” (Advisor: N.R. Schott).
- PL-23** **Christopher D. Oby**, “Directional Compressive Deformation of Crosslinked Low Density Polyethylene Foams” (Advisor: S.B. Driscoll).
- PL-24** **Ajay M. Kharod**, “Binders for Recycled Automobile Scrap Light Fluff Fraction” (Advisor: R.D. Deanin).
- PL-25** **Bharat Shah**, “Effects of Fillers in Thermoplastic Polyurethane Elastomer” (Advisor: R.D. Deanin).

1987

- PL-1** **Audrey G. Demers**, “Chondroitin Sulfate Coatings on Poly(Methyl Methacrylate)” (Advisor: S.P. Sawan).
- PL-2** **Henry A. Kozlowski**, “The Use of Three-Dimensional Solubility Parameter Methods to Help Predict Practical Polymer-Polymer Compatibility” (Advisor: R.D. Deanin).
- PL-3** **Ali Manoochehri**, “Polyblends of Thermoplastic Polyurethane with Acrylonitrile-Butadiene-Styrene” (Advisor: R.D. Deanin).
- PL-3** **Steven Leitch**, “Effects of Foam Concentrates on Paint Adhesion and Degassing Time with Structural Foam” (Advisor: S.B. Driscoll).
- PL-4** **Jih-Sang Chen**, “Effects of Plasticizer Desorption, Temperature, and Pressure on the Permeability of Saran” (Advisor: S.P. McCarthy).
- PL-5** **Joseph N. Pereira**, “A Comparative Evaluation of Various Fillers in a Vinyl Plastisol Compound” (Advisor: R.D. Deanin).
- PL-6** **Chester M. Kos**, “The Effect of Processing Parameters on the Weld Line Integrity of Selected Polymeric Materials” (Advisor: S.A. Orroth).

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- PL-7** **Jorma A. Peltola**, "Evaluation of EVA Copolymers as Impact Modifiers for PVC" (Advisor: S.B. Driscoll).
- PL-8** **Michael R. Mathews**, "The Effect of Heating Rate on the Shear Strength of a Room Temperature Cured Epoxy Resin" (Advisor: S.P. Petrie).
- PL-9** **Gail M. Miller**, "Fire Retardance Through Intumescence and Char Formation Materials Review 1977-1985" (Advisor: R.D. Deanin).
- PL-10** **Chin-Mu J. Tsai**, "Effects of Liquid Color Concentrates on Processing, Rheology, and Mechanical Properties in the Extrusion Blow Molding of HDPE" (Advisor: N.R. Schott).
- PL-11** **Noel J. Tessier**, "Ultrasonically Activated Pultrusion Dies" (Advisor: E.S. Arnold).
- PL-12** **Gary J. DeAngelis**, "The Effects of Hydrogen Bonding Polymeric Additives on the Clean Light Fluff Plastics Fraction from Automobile Shredders" (Advisor: R.D. Deanin).
- PL-13** **Thomas J. Pickett**, "Polyblends of Ethylene Vinyl Acetate with Polystyrene and Methacrylate Acrylonitrile Butadiene Styrene" (Advisor: R.D. Deanin).
- PL-14** **George R. Havrilla**, "An Investigation into Injection Molding Machine Requirements for Processing Rigid Polyvinyl Chloride Powder" (Advisors: S.A. Orroth/N.R. Schott).
- PL-15** **Thomas C. Walton**, "Adhesion and Characterization of Currently Available, Prepreg Processable Polyimides" (Advisor: S.B. Driscoll).
- PL-16** **James O. Ragwar**, "Powder Coatings" (Advisor: R.D. Deanin).
- PL-17** **Paul D. Tatarka**, "An Investigation of the Mechanical and Rheological Properties of Cellulose Ester Blends with Other Thermoplastic Polymers" (Advisor: R.D. Deanin).
- PL-18** **Rahul I. Bhagat**, "Study of Nylon-Polyolefin Blends Using a Twin-Screw Extruder" (Advisors: R.D. Deanin/S.A. Orroth).
- PL-19** **Raymond P. Gendron, Jr.**, "The Synergistic Effect of Antimony Oxide with PVC in the Flame Retardance of Polyurethane Elastomer" (Advisor: R.D. Deanin).
- PL-20** **Donald J. Therriault**, "The Effect of Polymer Chemistry and Microstructure on the Permeability of Plastics" (Advisors: R.D. Deanin/S.P. McCarthy).
- PL-21** **Stephen D. Farrington**, "Chemically Expanded Polyvinyl Chloride Plastisol Foams" (Advisor: R.D. Deanin).
- PL-22** **Ashok C. Khokhani**, "Polymer-Structure and Injection Molding" (Advisor: R.D. Deanin).
- PL-23** **Shreyas Morakhia**, "Recycling of Styrene Polymers and Its Effect on Their Properties and Processing" (Advisor: S.J. Grossman).
- PL-24** **William S. Stowell**, "The Effects of Plasticizer Mixtures on the 100% Modulus Values of Polyvinyl Chloride Films" (Advisor: R.D. Deanin).

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- PL-25** **Max L.F. Lin**, "Phenoxy and Polyurethane Polyblends" (Advisor: R.D. Deanin).
- PL-26** **Victor L. Brandalise**, "A Comparative Study of Reaction Injection Molded Nylon Block Copolymers Prepared via a One-Shot and a Prepolymer Method" (Advisor: N.R. Schott).
- PL-27** **Jitesh Desai**, "Polyblends of Nylon 66 with Ethylene/Acrylic Acid Copolymers" (Advisor: R.D. Deanin).
- PL-28** **Da-Vei Yu**, "Thermoplastic Elastomer by Transesterification of Recycled PET and Polyethylene Glycol" (Advisor: S.J. Grossman)
- PL-29** **George Tihalas**, "Effect of the Gastric Enzyme Pepsin on Medical-Grade Polyurethane and Polyvinyl Chloride In Vitro" (Advisor: A.M. Crugnola)
- PL-30** **Mukund R. Patel**, "Extrusion of Filled Conductive Foam Sheet" (Advisor: N.R. Schott).
- PL-31** **Saurin J. Shah**, "Injection Molding and Rheology of Powder Metal-Filled Compounds for Metal Injection Molding" (Advisor: R.E. Nunn).
- PL-32** **Hoang Chen**, "The Effect of Talc on the Properties of Polyethylene" (Advisor: S.A. Orroth).
- PL-33** **Daniel E. Bullock**, "Z-Direction Tape Reinforcement for Composite Laminates" (Advisor: N.R. Schott).
- PL-34** **Shreerang N. Nabar**, "Effect of Lubricants on Mold Release and Mechanical Properties in a PVC Plastisol" (Advisor: R.D. Deanin).
- PL-35** **Richard A. Kelly**, "Tackification of Acrylic Latex Pressure Sensitive Adhesives" (Advisor: R.D. Deanin).
- PL-36** **Lori J. Spinney**, "Regrind Study on a Polyphenylene Sulfide Molding Compound" (Advisor: S.A. Orroth).
- PL-37** **David M. Busby**, "Improving the Thermoplastic Melt Flow of the Clean Light Fraction from Junked Automobiles" (Advisor: R.D. Deanin).
- PL-38** **George Panagopoulos, Jr.**, "Rheology and Processability of Poly(Vinyl Chloride)" (Advisor: S.B. Driscoll).
- PL-39** **JoAnn Ratto**, "Investigation of Novel Main Chain Thermotropic Liquid Crystalline Polymers Containing a Trans 1,4-Disubstituted Cyclohexane Ring" (Advisor: R.B. Blumstein).
- PL-40** **Michael J. Callahan**, "Approaching the Abrasion Resistance of Ultra High Molecular Weight Polyethylene by Crosslinking High Density Polyethylene During Injection Molding" (Advisor: A.M. Crugnola).
- PL-41** **Thomas E. Nahill**, "Polyethylene Terephthalate: A New Use for Old Material?" (Advisor: R.D. Deanin).

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- PL-1** **Wen-Chong Liang**, "Use of an Injection Molding Machine Nozzle as an Ultra High Speed Capillary Rheometer for Filled and Reinforced Polymers" (Advisor: R.E. Nunn).

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- PL-2** **Yu-Peng Chen**, “Preliminary Studies on Reactive Polymer Processing for the Purpose of Preparing Aromatic-Amine Based Polyamides from Diisocyanates and Dicarboxylic Acids” (Advisor: S.J. Grossman).
- PL-3** **Sunit S. Shah**, “Effect of Fillers and Modifiers in the Gas Permeability of LLDPE Film” (Advisor: S.P. McCarthy).
- PL-4** **Chih-Chiang Pai**, “Effect of Annealing on the Moisture Absorption of Nylon 66 Materials” (Advisor: S.J. Grossman).
- PL-5** **Vistasp N. Gheyara**, “Adhesive and Joint Evaluation for Automotive Plastic Sealed Beam” (Advisor: R.D. Deanin).
- PL-6** **Donna M. Ohanian**, “Contact Lenses - Yesterday and Today” (Advisor: R.D. Deanin).
- PL-7** **Emmanuel A. Awojulu**, “Mixing Characteristics of Polyblends in Processing Equipment Using PC/PET Blends” (Advisor: J.C. Huang).
- PL-8** **Riten D. Parikh**, “Mechanical and Rheological Properties of Melt-Blended Structural Foams” (Advisor: S.B. Driscoll).
- PL-9** **Susan D. Kohlman**, “The Effect of Processing Variables on the Environmental Stress Crack Resistance of Rotationally Molded Polyethylenes” (Advisor: S.P. Petrie).
- PL-10** **Pradeep Damle**, “Evaluation of Sorbitol (D-Glucitol) as a Plasticizer for Nylon 6,6 and Reactive Processing of Nylon 6,6 with (R) PS” (Advisor: S.J. Grossman).
- PL-11** •**Marc G. Gagnon**, “Birefringence as a Function of Injection Molding Parameters” (Advisor: S.P. McCarthy).
- PL-12** **Carl F. Varnerin**, “Thermal Expansion Coefficients of Filled Polycarbonate” (Advisor: R.D. Deanin).
- PL-13** **Steven Quigley**, “Statistical Evaluation of Processing Parameters of a Counter-Rotating-Intermeshing Twin Screw Extruder on the Mixing Quality of a Magnesium Hydroxide/Polypropylene Mixture” (Advisor: S.P. Petrie).
- PL-14** **Rohit Tandon**, “Pressure Drop Analysis in Various Runner Systems” (Advisor: S.J. Chen).
- PL-15** **Chong O. Kim**, “Polymer Blends of Recycled Poly(Ethylene Terephthalate) and Polypropylene with Coupling Agent” (Advisor: S.J. Grossman).
- PL-16** •**Boney A. Mathew**, “Effects of Injection Molding Parameters on Degree of Crystallinity” (Advisor: R.E. Nunn).
- PL-17** **Jonathan D. Mast**, “Processing Aids for Chlorinated Polyvinyl Chloride” (Advisor: R.D. Deanin).
- PL-18** **Rosemary E. Clarke**, “Verification of an Injection Mold Filling Software Package” (Advisor: S.P. McCarthy).

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- PL-19** **Cheng-Yi Chang**, “Application of Statistical Experimental Design Techniques for the Continuous Process Size Reduction Studies of Thermoplastic Films” (Advisor: F.S. Lai).
- PL-20** **Joseph F. Chabot, Jr.**, “The Development of Plastics Processing Machinery and Methods” (Advisor: R.D. Deanin).
- PL-21** **Yung-Chang Sun**, “Investigation of the Effects of Machine Parameters and the Granulating Thermoplastic Film” (Advisor: F.S. Lai).
- PL-22** **Claudia M. Basto**, “Effect of Density on Properties of Polystyrene Foams Made by Steam and Injection Molding” (Advisor: R.D. Deanin).
- PL-23** **•Seong-Hun Kim**, “An Investigation of the Effects of Fiber Blend Ratio, Web Geometry and Bonding Process Conditions on Tensile Properties of Needle-Punched Thermally-Bonded Polyester Nonwoven Fabrics” (Advisor: A. Tayebi).
- PL-24** **Suresh K. Wadhwa**, “Comparative Value of Polymer/Plastics Journals in Academic Research” (Advisor: R.D. Deanin).
- PL-25** **James W. Moriarty, Jr.**, “Effect of Coating System on the Performance of Optical Fibers” (Advisor: R.D. Deanin).
- PL-26** **Richard Horrigan**, “The Effect of Fillers on Tensile Properties of Acrylic Latex Films” (Advisor: R.D. Deanin).
- PL-27** **Brian G. Porter**, “Recycling of Plastic Wastes Generated from Junked Automobiles” (Advisor: R.D. Deanin).
- PL-28** **Mark F. Nascimento**, “Plastics Curricula” (Advisor: R.D. Deanin).
- PL-29** **Ru-Jong Jeng**, “A Rheological Study of Kraton Solutions” (Advisor: J.C. Huang).
- PL-30** **Ann M. Kirkwood**, “Design, Material and Processing Effects on the Tensile Properties of Filled Polypropylene” (Advisor: S.P. Petrie).
- PL-31** **•Cory P. Grolman**, “Adaptive Control of Injection Molding” (Advisor: R.E. Nunn).

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- PL-1** **•Rajen N. Parekh**, “Recent Developments in Plastics Recycling and Degradability” (Advisor: S.J. Grossman).
- PL-2** **Tsai-Jueong Liu**, “Viscosity of Water Soluble Polymers” (Advisor: J.C. Huang).
- PL-3** **Arnold B. Kagle, Jr.**, “The Thermal, Mechanical and Crack Propagation Properties of Injection Molded Fibrous and Platelet Reinforced Polypropylene Composites” (Advisor: S.P. Petrie).
- PL-4** **•Cheng C. Chang**, “A Study of the Effects of Injection Molding Process Conditions on Part Weight and Optimization by Empirical Model-Building Techniques” (Advisor: F.S. Lai).
- PL-5** **Peter Arsenault**, “Thermoplastics Technical Data Book A Reference for Non-Plastics Engineers” (Advisor: S.B. Driscoll).

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- PL-6** **Mehmet A. Burduroglu**, "Polyblending of Styrene-Butadiene-Styrene and Styrene-Ethylene/Butylene Styrene with Linear-Low Density Polyethylene" (Advisor: R.D. Deanin).
- PL-7** **Vinayak R. Vyas**, "Two Part Plastisol Urethane" (Advisor: R.D. Deanin).
- PL-8** **Ambarish K. Dave**, "The Effects of Jeffamine on Nylon-66" (Advisor: S.J. Grossman).
- PL-9** **Kulin Parikh**, "PP-EVOH Blending Technology and Properties for Use as Re grind in Coextruded Sheet" (Advisor: S.P. McCarthy).
- PL-10** **Kin-Lon Do**, "Melt Rheology of Highly Loaded Ferrite-Filler Nylon Resins" (Advisor: N.R. Schott).
- PL-11** **Joanne T. Burke**, "Plasticization of Polymethyl Methacrylate" (Advisor: R.D. Deanin).
- PL-12** **David S. Roe**, "The Influence of Injection Molding Processing Parameters on the Mechanical Properties of Painted Thermoplastics" (Advisor: R.A. Malloy).
- PL-13** **Patrick J. Horan**, "Polymer Friction and Wear" (Advisor: R.D. Deanin).
- PL-14** **Chung Kuan Wu**, "International Investment Decision Processes on Polycarbonate Plants When Market Size is the Dominant Factor" (Advisor: S.B. Driscoll).
- PL-15** **Shih-Ming Chang**, "Melt Rheology of Long Glass Fiber Reinforced Polypropylene" (Advisor: R.A. Malloy).
- PL-16** **Stephen J. Hanley**, "Poly(Ethylene Terephthalate)/Solvent Interactions" (Advisor: S.P. McCarthy).
- PL-17** **Oliver J. Chang**, "Rheological and Mechanical Properties of Immiscible Blends of EVOH and Styrene-Based Polymers" (Advisor: S.P. McCarthy).
- PL-18** **•Mark D. Charbonneau**, "The Effects of Processing Variables on the Weld-Line Strength of Plastics in Aggressive Environments" (Advisor: S.P. McCarthy).
- PL-19** **Anthony E. Listro**, "Compounding and Extrusion Processing of Ferrite Filled Nylon Polymers" (Advisor: N.R. Schott).
- PL-20** **Joe Toong**, "Membrane Fabrication Technology and Commercial Applications" (Advisor: F.S. Lai).
- PL-21** **•Kingman Tang**, "Fluid Mechanics of Mold Filling in Resin Transfer Molding" (Advisor: N.R. Schott).
- PL-22** **Steven A. Schultz**, "Recent Development in Flexible Polyurethane Foams (1980-1989)" (Advisor: R.D. Deanin).
- PL-23** **Jeng I. Chen**, "Soluble N-Phenylpyrrole Oligomer Polymerized by Electrochemical Polymerization" (Advisor: J.C. Huang).
- PL-24** **Keith J. McWha**, "The Use of Polyacrylamide in Biocatalyst Immobilization" (Advisor: J.C. Huang).

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- PL-25** •**David P. Piccioli**, “High-Barrier Poly (Ethylene Terephthalate) Bottles Utilizing Ethylene Vinyl Alcohol Copolymers” (Advisor: R.D. Deanin).
- PL-26** **Amelia A. Debaggis**, “Hydrophobic Coatings”, (Advisor: R.D. Deanin).
- PL-27** **Han-Hsiu Tseng**, “An Investigation on Pneumatic Bursting Strength of Plastics Films” (Advisor: F.S. Lai).
- PL-28** **Frances A. Eagle**, “A Development Plan to Establish a University-Based Plastics Manufacturing Center at the University of Lowell” (Advisor: N.R. Schott).
- PL-29** •**Hsiao-Fu Shen**, “Pressure Effect in Capillary Rheometer” (Advisor: J.C. Huang).
- PL-30** **Christopher Ross**, “The Development of the Online Rheometer: A Viscosity Measuring Apparatus for Use on Velocity Controlled Injection Molding Machines” (Advisor: R.A. Malloy).
- PL-31** **Gregory P. Croteau**, “The Effects of Ultraviolet Light and Pigments on the Physical Properties of Polycarbonate (Advisor: S.P. Petrie).
- PL-32** **James M. Giacobbe**, “Moisture Vapor Transmission Rates of Extrusion Coated and Laminated Products” (Advisor: N.R. Schott).
- PL-33** **Jong-Liang Wu**, “Evaluations of Computer Flow and Cooling Simulation Programs in Injection Molding: A Comprehensive Study of Moldflow, Moldtemp, and CFlow” (Advisor: S.J. Chen).
- PL-34** **Ellen M. Jennings**, “The Effect of Elevated Temperatures on Biological Activity of Heparin Released from Polyurethane Matrix” (Advisor: J.C. Huang).
- PL-35** **Mariflor Salas-Morales**, “Study of the Effect of Reinforcing Additives on the Properties of Post Consumer Plastic Waste Boards” (Advisor: R.A. Malloy).
- PL-36** **Jennifer J. Morad**, “The Immediate and Long Term Effects of Gamma Radiation Sterilization on the Properties and Structure of PETG (Poly (1,4 Cyclohexylenedimethylene Terephthalate Co-Isophthalate))” (Advisor: A.M. Crugnola).

1990

- PL-1** **Tien-Li Lin**, “Application of SPC in the Injection Molding Process by Monitoring Mold Parting Line Separation to Obtain Part Weight Consistency” (Advisor: F.S. Lai).
- PL-2** **Paul A. Davis**, “Silicones: Their Unique Chemistry, Properties and Adhesive/ Sealant Applications” (Advisor: R.D. Deanin).
- PL-3** **Leonard D. DeCoste, Jr.**, “Extrusion Coating of Polyethylene Foam onto a Woven Cloth Substrate” (Advisor: S.A. Orroth).
- PL-4** **Eduardo J. Gonzalez**, “Rheological Properties of Engineering Thermoplastic Alloys” (Advisor: S.B. Driscoll).
- PL-5** **Fan Gu**, “Thermoplastics Epoxy Resins - Their Properties and Property Estimation” (Advisor: J.C. Huang).

1990 (cont.)

- PL-6** **Chenlian Ou**, “Measuring the Rheological Properties of Filled Compounds with a Gear Pump Assisted Twin Screw Extruder” (Advisor: S.A. Orroth).
- PL-7** **Abboud L. Mamish**, “Co-Extrusion Coating of Woven Fabrics” (Advisor: S.A. Orroth).
- PL-8** **William M. Kramer**, “An Evaluation of UV Light Stabilizers on Color Development in Flexible Vinyl Compounds” (Advisor: S.P. McCarthy).
- PL-9** •**Mark Rosen**, “A Study of the Effects of Injection Molding Process Parameters on Part Weight” (Advisor: R.E. Nunn).
- PL-10** **Garrett S. Thurston**, “The Pyrolysis Process of a Polysilazane Ceramic Precursor and Characterization of the Products” (Advisor: T. Vasilos).
- PL-11** **Ketan V. Shah**, “Effect of Glass Fiber Orientation on the Thermal Diffusivity and Thermal Conductivity of Polymer Melts” (Advisor: S.P. McCarthy).
- PL-12** **Udayan G. Patel**, “Rheology and Injection Molding of a Poly (Phenylene Sulfide)” (Advisor: R.E. Nunn).
- PL-13** **Peter J. Iannazzi**, “The Thermal Processability of an Environmentally Stable Intrinsically Conductive Polymer” (Advisor: N.R. Schott).
- PL-14** **King H. Yee**, “Die Attach Adhesives and Bonding Processes” (Advisor: S.P. McCarthy).
- PL-15** •**Mark W. Keene**, “Adhesive Bonding of Fiber Reinforced Plastics” (Advisor: R.D. Deanin).
- PL-16** **David J. Kopecky**, “The Effect of Molecular Weight on the Ultrasonic Weldability of Polycarbonate” (Advisor: R.A. Malloy).
- PL-17** **Richard M. McCann**, “Density Limits and Cell Size Distribution for Thin Sectioned, All Water Blown, MDI Based Flexible Polyurethane Foams” (Advisor: A. Tayebi).
- PL-18** •**Kang-Ming Chen**, “Polyblends of Amorphous Nylon with Polystyrene Materials” (Advisor: S.P. McCarthy).
- PL-19** **Gregory S. Young**, “In-Line Viscosity Measurement for the Gear Pump Assisted Single Screw Extrusion Process” (Advisor: R.A. Malloy).
- PL-20** **Jill E. Steeper**, “Temperature Dependence of Coating Thickness for an Electrodeposited Acrylic Emulsion” (Advisor: R.D. Deanin).
- PL-21** **Achal N. Thakkar**, “Reactive Processing of Nylon 6,6 and Polypropylene in the Presence of a Maleic Anhydride Grafted Polymer” (Advisor, S.J. Grossman).
- PL-22** **Hee-Teck Kim**, “A Study of Gamma-Radiation Effects on Light Stabilized High Impact Polystyrene” (Advisor: F.S. Lai).
- PL-23** **Kara A. Goeken**, “The Relationship Between Polymer Structures and Blow Molding Processability” (Advisor: R.D. Deanin).

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- PL-24** **Parasar B. Dave**, “Biodegradable Blends Containing Poly (Hydroxybutyrate-Co-Hydroxyvalerate) Copolymer” (Advisor: S.P. McCarthy).
- PL-25** **Carlos Cadavid**, “Mechanical and Ultrasonic Swaging Studies of ABS, Polycarbonate and PC/PCTG Blend” (Advisor: R.A. Malloy).
- PL-26** **Mark G. Davis**, “Automating Data Acquisition and Statistical Process Control for Coextruded Tubing Dimensions and Implementing an Operator Training Program” (Advisor: F.S. Lai).
- PL-27** •**David J. Corvino**, “Geometry and Runner Length and Their Effect on Tensile Properties of Polymer Materials” (Advisor: S.A. Orroth).
- PL-28** **Kevin J. Gauthier**, “The Weatherability of Polyurethane Coatings” (Advisor: R.D. Deanin).
- PL-29** •**Arthur A. Leman**, “The Effect of Color on the Durability of Exterior House Paints” (Advisor: R.D. Deanin).
- PL-30** **Donald J. Jaklitsch**, “Computer Automation of the Pultrusion Process” (Advisor: F.S. Lai).
- PL-31** **Peter T. Majeski**, “An Investigation of Some Factors Affecting the Force Required to Eject Polypropylene Box-Shaped Moldings” (Advisor: R.A. Malloy).
- PL-32** **Minglun Wu**, “Fiber Degradation of Reinforced Thermoplastics During Twin-Screw Compounding” (Advisor: S.A. Orroth).
- PL-33** **Jane A. Riley**, “A Comparison of Viscosity Measurement Techniques for Injection Molding Simulation Software” (Advisor: R.A. Malloy).
- PL-34** **Richard P. Rego, Jr.**, “Insert-Injection Molding of Velcro Brand Hook Components” (Advisor: S.P. McCarthy).

1991

- PL-1** **Li Liang**, “Rheology and Injection Molding of Silicon Carbide Filled Polypropylene” (Advisor: R.E. Nunn).
- PL-2** **Gina M. Lewis**, “Effect of Varying the Density of Rigid Polyurethane Foam on its Impact Strength” (Advisor: R.D. Deanin).
- PL-3** **Charles T. Burke**, “Ejection Force Measurement for the Injection Molding Process” (Advisor: R.A. Malloy).
- PL-4** **Chung-Chin Yeh**, “Rheological Measurement of Thermosetting Molding Compounds” (Advisor: S.A. Orroth).
- PL-5** •**William R. DiScipio, Jr.**, “Verification of Shrinkage/Warpage Predicting Software” (Advisor: S.P. McCarthy).
- PL-6** **Roland Wolf**, “Reprocessing of ABS Automobile Part Performance and Economy” (Advisor: N.R. Schott).

1991 (cont.)

- PL-7** **Matthias Schuhle**, “Material Selection for an Automotive Fuel Tank from an Energy Viewpoint Concerning Manufacturing, Use and Recycling” (Advisors: R.D. Deanin/N.R. Schott).
- PL-8** **Ashish K. Mithal**, “Fiber Spinning from Blends of Isotropic Polymers and Thermotropic Liquid Crystalline Polymers” (Advisor: A. Tayebi).
- PL-9** **Margaret A. Johnson**, “The Effects of Fillers on the Mechanical Properties of Comingled Plastic Waste Lumber Substitutes” (Advisor: R.A. Malloy).
- PL-10** **Charles A. Dunn**, “Determination of the Precision of On Line Flow Front Velocity Measurements” (Advisor: F.S. Lai).
- PL-11** **James H. Cheney**, “Structural Polyurethane Adhesives: An Evaluation on the Performance of Commercial Adhesives with Metals and Composites” (Advisor: R.D. Deanin).
- PL-12** **James J. Porcaro**, “The Effects of Moisture on the Physical Properties of Engineering Polymers” (Advisor: S.B. Driscoll).
- PL-13** **Laura Connelly**, “A Method to Eliminate Plunger Frictional Error in Capillary Rheometry” (Advisor: R.A. Malloy).
- PL-14** **K. Hari Reddy**, “The Development of an Optimization Process for Single Gated Injection Molded Parts” (Advisor: S.P. McCarthy).
- PL-15** **Lisa L. D’Amico**, “The Effect of Material Properties on Finite Element Flow Analysis Results” (Advisor: S.P. McCarthy).
- PL-16** **Michael D. Appolonia III**, “The Application of Filament Wound, Graphite/ Epoxy Composites to Acoustic Drum Shells” (Advisor: N.R. Schott).
- PL-17** **Stephen M. McCartin**, “Dynamic Mechanical Properties of Annealed Thermoplastics” (Advisor: S.B. Driscoll).
- PL-18** **David Pierick**, “The Effect of Processing Conditions on Shrinkage of Injection Molded Plaques” (Advisor: R.A. Malloy).
- PL-19** **John J. Bardzik**, “Nitrogen Gas Permeability in Gamma Irradiated Polyvinyl Chloride Films” (Advisor: S.P. McCarthy).
- PL-20** **Shrikant P. Oak**, “Theory and Verification of the Simulation of the Filling Stage in the Injection Molding Process” (Advisor: S.P. McCarthy).
- PL-21** **Gang Yang**, “An Investigation of Effects on Melt Viscosity Measurements Using Capillary Rheometry” (Advisor: S.P. McCarthy).
- PL-22** **Cheng-Hsiang Chuang**, “Polyolefin Polyblends” (Advisor: R.D. Deanin).
- PL-23** **Venkatakrishnan Umamaheswaran**, “An Experimental Ejection Force Study of Glass Filled Polycarbonate” (Advisor: R.A. Malloy).

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- PL-24** **Vassilios Nikoludis**, “Correlation of Artificial and Natural Weatherability of Ethylene-Co-Copolymer with One Percent Carbon Monoxide” (Advisor: S.P. McCarthy).
- PL-25** **Mary-Irene E. Condo**, “Strategy for Waste Management of Engineering Thermoplastics” (Advisor: F.S. Lai).
- PL-26** **Rohit Prakash**, “Development of Mold Area Diagram Analogs” (Advisor: R.E. Nunn).
- PL-27** **Te-Hsin Yang**, “Injection Molding Processing Effects on the Crystallinity of Polypropylene” (Advisor: R.E. Nunn).
- PL-28** **Tushar Patel**, “An Experimental Investigation of Pressure Losses in the Injection Molding Cavity” (Advisor: S.P. McCarthy).
- PL-29** **Dafang Zhao**, “A Literature Survey of Composites in Rigid Printed Circuit Boards” (Advisor: N.R. Schott).
- PL-30** **John P. Doucette**, “Physical and Rheological Properties of PC/ABS Alloys” (Advisor: S.B. Driscoll).
- PL-31** **Arvind P. Wagle**, “Verification of an Injection Mold Filling Software Package for Radial Flow” (Advisor: S.P. McCarthy).
- PL-32** **Prabodh Kadkol**, “Predicting Thermal Degradation of Poly(Hydroxybutyrate-Hydroxyvalerate) Copolymers During Injection Molding” (Advisor: S.P. McCarthy).
- PL-33** **Munjali Parikh**, “Effect of Crystalline Morphology of Poly(β -Hydroxybutyrate-Co-Hydroxyvalerate) on the Rate of Biodegradation” (Advisor: S.P. McCarthy).
- PL-34** **Andi W. Lisuardi**, “Polymer Blends of Poly- β -Hydroxybutyrate and Poly- ϵ -Caprolactone” (Advisor: S.P. McCarthy).
- PL-35** **Xiao-Ping Shen**, “Melt Temperature Measurement in Single Screw Extrusion” (Advisor: R.A. Malloy).
- PL-36** **Venkata Atluri**, “Melt Viscosity Measurements for Injection Molding Applications” (Advisor: R.A. Malloy).
- PL-37** **Hongshik Park**, “Gamma Radiation Effects on the Injection-Molded Poly- ϵ -Caprolactone” (Advisor: S.P. McCarthy).
- PL-38** **Amit Sheth**, “Composition-Processing-Morphology-Property Relationships for Bisphenol-A Polycarbonate (PC)/Acrylonitrile-Butadiene-Styrene (ABS) Blends” (Advisor: S.B. Driscoll).
- PL-39** **Deven C. Patel**, “Polyblends of Poly(Methyl Methacrylate) and Poly(Vinylidene Fluoride)” (Advisor: F.S. Lai).
- PL-40** **Tapan K. Bhattacharjee**, “New Syntactic Foams for Commercial Use” (Advisor: N.R. Schott).
- PL-41** **Hsiu-Te Chang**, “A Numerical Analysis with an Experimental Verification for the Pultrusion Process” (Advisor: F.S. Lai).

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- PL-42** **Pattiann McCluskey-Bampos**, “The Effect of Multiple Sterilization Cycles and Exposure to Canine Blood on the Physical and Chemical Properties of Aliphatic Polyurethanes” (Advisor: A.M. Crugnola).
- PL-43** **Xiaoyu Zhang**, “The Use of a Spiral Flow Mold to Measure Processability of Polymeric Materials” (Advisor: S.A. Orroth).
- PL-44** **Hiten Shah**, “Effect of Injection Molding Parameters on Optical Properties of Polycarbonate” (Advisor: F.S. Lai).
- PL-45** **David C. Chang**, “Determination of Miscibility of PVC/Polymer Blends by Three-Dimensional Solubility Parameters” (Advisor: J.C. Huang).
- PL-46** **Guangyu Lu**, “Knowledge Based Gate Design of an Injection Mold” (Advisor: S.J. Chen).
- PL-47** **William R. Garside**, “An Evaluation of Certain Organic Dyes for Engineering Plastics as Heavy-Metal Pigment Replacements” (Advisor: N.R. Schott).
- PL-48** **Chau Chen**, “Rheological Characterization and Thermal Analysis of the Blends of High Density Polyethylene, Polyethylene Terephthalate and Compatibilizer- Ethylene Vinylacetate” (Advisor: F.S. Lai).
- PL-49** **Richard M. Charron**, “Product Liability and the Plastics Industry” (Advisor: R.E. Nunn).
- PL-50** **Rudolph Sedlmayr**, “The Mechanical Properties and Fiber Length Distribution in Injection Molded Long Carbon Fiber Reinforced High Temperature Polymers” (Advisor: N.R. Schott).

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- PL-1** **Ganesh Venkatagiri**, “Comparative Performance Evaluation of a New Dynamic Mixer Using PC/ABS Blends” (Advisor: S.J. Chen).
- PL-2** **Joseph P. Dufour**, “Environmental Protection of Copper Circuitry with Conformal Coating” (Advisor: S.B. Driscoll).
- PL-3** **David J. McBride**, “Fabrication of Cardboard Stock from Scrap Plastic and Recycled Paper” (Advisor: N.R. Schott).
- PL-4** **Paula J. Puglia**, “Sensitivity Study of Material Attributes Utilized in Flow Simulation” (Advisor: S.P. McCarthy).
- PL-5** **Samir A. Patel**, “Optimization of the Ultrasonic Welding Process Utilizing Parametric Design of Experiments” (Advisor: F.S. Lai).
- PL-6** **Renko Meijer**, “Physical and Rheological Properties of PC/SMA Blends” (Advisor: S.B. Driscoll).
- PL-7** **Saumil Brahmhatt**, “An Evaluation of Weld Line Strengths for Long Glass Fiber Reinforced Styrene/Maleic Anhydride Copolymer” (Advisor: S. B. Driscoll).
- PL-8** **Rahul Bandyopadhyay**, “Verification of Fiber Orientation Predicting Software” (Advisor: S.P. McCarthy).

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- PL-9** **Marc Roy**, “Design Study of Graphite/Epoxy Composite Fishing Rods” (Advisor: R.E. Nunn).
- PL-10** **Hyeong J. Lee**, “Effect of Processing Conditions on Mechanical Properties of PET/HDPE Blend in Twin Screw Extrusion” (Advisor: F.S. Lai).
- PL-11** **Vincent P. Bavaro**, “HDPE Melt Elasticity: Methods of Measurement and What It Means” (Advisor: S.B. Driscoll).
- PL-12** **•Shih-Ming Chang**, “Properties of PC/PBT Blends” (Advisor: J.C. Huang).
- PL-13** **Peter J. Quinn**, “Reinforcement Fibers in Profile Extrusion for Marine Applications” (Advisor: A. Tayebi).
- PL-14** **Francis L. Lacave**, “Thermal Diffusivity and Viscosity Measurements Using Injection Molded Rod-Type Samples of Amorphous Polymer” (Advisor: R.A. Malloy).
- PL-15** **Hsuan-Hao Liu**, “Melt Viscosity of Polycarbonates” (Advisor: J.C. Huang).
- PL-16** **Raghuram Mahabalam**, “Review of Surface Modification of Polymers by Plasma Treatment” (Advisor: R.D. Deanin).
- PL-17** **Yung-Chang Lu**, “Analysis of Parison Pinch-Off Sealing Strengths in Extrusion Blow Molding” (Advisor: S.A. Orroth).
- PL-18** **R. Sunderrajan**, “On the Use of Instrumented Plungers for Capillary Rheometers” (Advisor: R.A. Malloy).
- PL-19** **Xiaoming Lee**, “Reclamation of Automotive Carpet Scrap” (Advisor: R.A. Malloy).
- PL-20** **Scott M. Jones**, “Characterization of the Flow Properties of Bulk Molding Compound Using a Reciprocating Screw Rheometer” (Advisors: R.A. Malloy/ S.P. McCarthy).
- PL-21** **Rajiv H. Saraiya**, “Development of Airbag for Packing of Computers” (Advisor: F.S. Lai).
- PL-22** **Christopher M. Owens**, “The Influence of Processing Conditions on the Tensile Properties of Twin Screw Extruded Polyblend Tubing” (Advisor: S.B. Driscoll).
- PL-23** **Lisa M. Todd**, “A Processing Study of Impact-Modified Nylon-6 Polyblends” (Advisor: S.A. Orroth).
- PL-24** **Tsorng-Tau Yuan**, “Rheological Properties of Long Glass Fiber Reinforced Polypropylene” (Advisor: R.A. Malloy).
- PL-25** **Himanshu N. Patel**, “Filtered Extrusion of Plastics Waste” (Advisor: F.S. Lai).
- PL-26** **Biren Kothari**, “Development of Conductive Polymeric Blends for EMI Shielding” (Advisor: J.C. Huang).
- PL-27** **Kuei-Lin Lu**, “Limits of Viscous Heating in Extrusion Coating” (Advisor: N.R. Schott).
- PL-28** **Robert Balsamo**, “The Effect of Surface Finish on the Force Required to Eject Injection Molded Plastic Parts” (Advisor: R.A. Malloy).

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- PL-29** **Vijay Rajagopal**, "A Practical Approach to Study the Feasibility of Recycling Polycarbonates" (Advisor: F.S. Lai).
- PL-30** **Nilesh M. Shah**, "Shrinkage and Filling of Ultra High Molecular Weight Polyethylene" (Advisor: S.P. McCarthy).
- PL-31** **Ta-Jen A. Hou**, "Study of EVA/LDPE Blends" (Advisor: R.D. Deanin).
- PL-32** **Mary Sullivan**, "An Improved Conformal Base from a Solvent Borne Mechanically Blended Two Polymers System" (Advisor: R.D. Deanin).
- PL-33** **Sanjeev Tanna**, "Polymer Blends of Bacterial Polyester with Corn Starch and Polyvinyl Alcohol" (Advisor: S.P. McCarthy).
- PL-34** **Steven P. Bistany**, "Recycling of Plastisol Foams" (Advisor: R.D. Deanin).
- PL-35** **David Hayward**, "An Experimental Ejection Force Study of Lubricated Polystyrene" (Advisor: R.A. Malloy).
- PL-36** **Shamit P. Vasa**, "Influence of Chemical Blowing Agents on Structural Foam Molding Time" (Advisors: S.A. Orroth/S.B. Driscoll).
- PL-37** **Matthias M. Schmid**, "Investigation of Various Polymers of Insert Molding of Electrical Circuits in Hybrid Housings" (Advisor: N.R. Schott).
- PL-38** **M.S. Chetan**, "Electrically Conducting Ionic Polyacetylenes" (Advisor: A. Blumstein).
- PL-39** **Claudia Hernandez**, "Semisynthetic and Synthetic Water-Soluble Polymers" (Advisor: R.D. Deanin).
- PL-40** **Jai N. Sanghvi**, "Performance Characteristics of the Dray Non-Return Valve Using SPC/SQC in Injection Molding" (Advisor: F.S. Lai).
- PL-41** **Dharmendra Jani**, "Properties of Recycled Polystyrene Foams" (Advisor: R.D. Deanin).
- PL-42** **Peter J. Porcaro**, "Environmental Audit of Disposing of Plastics Materials and Products" (Advisor: S.P. McCarthy).
- PL-43** **Shishir K. Agrawal**, "Development of an Expert System for Optimum Gate Design" (Advisor: F.S. Lai).
- PL-44** **Joseph P. Lane**, "Tensile Properties of Nylon 6 Film" (Advisor: S.B. Driscoll).
- PL-45** **•Xiaohua Li**, "Improving the Properties of Recycled Automotive Carpet Scrap" (Advisor: R.A. Malloy).
- PL-46** **Chia-Pen Hung**, "Properties of PC/SAN Blends" (Advisor: J.C. Huang).
- PL-47** **Raj Kumar Datta**, "Investigations on Blends of High Density Polyethylene and Isobutylene-Isoprene Copolymers with Special Emphasis on the Uniaxial Tensile Deformation Behavior" (Advisor: R.D. Deanin).

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- PL-48** **Krishnarao C. Vellanki**, "Solid Plasticizers and Impact Modifiers in Rigid Polyvinyl Chloride" (Advisor: R.D. Deanin).
- PL-49** **Venkateswarlu Sirani**, "Controlled Degradation of Polypropylene by Reactive Extrusion" (Advisor: J.C. Huang).
- PL-50** **Suhas Kulkarni**, "Effect of Polyvinyl Acetate on the Crystalline Behavior of Poly (β -Hydroxybutyrate)" (Advisor: S.P. McCarthy).
- PL-51** **Orpha James**, "Recycling of Thermoset Polyurethane Flexible Foam to an Elastomer" (Advisor: R.D. Deanin).
- PL-52** **Kimberly A. Boudreau**, "An Evaluation of the Properties of Recovered Polycarbonate from Mechanically Recycled Compact Discs" (Advisor: R.A. Malloy).
- PL-53** **Vatsal Naik**, "Kinetics and Thermal Characterization of a Polyester Bulk Molding Compound" (Advisor: S.P. McCarthy).
- PL-54** **Andrew J. Schoenberg**, "Blend Characterization of Poly (β -Hydroxybutyrate-Co- β -Hydroxyvalerate) and Poly(ϵ -Caprolactone)" (Advisor: S.P. McCarthy).
- PL-55** **Pravin Borkar**, "Melt Filtration, Characterization, Product Selection and Design from Painted/Plated Recycled Computer Casings" (Advisor: F.S. Lai).

1993

- PL-1** **Kristin L. Kidd**, "A Comparative Analysis of PVB/Glass Adhesion Tests" (Advisor: R.D. Deanin).
- PL-2** **Craig L. Allard**, "Ultraviolet Curable Abrasion Resistant Coatings: An Evaluation of the Factors that Influence Their Physical Properties on Thin Polyester Films" (Advisor: R.D. Deanin).
- PL-3** **Zhaoyan Yang**, "Properties of Impact Modified Nylon 66" (Advisor: J.C. Huang).
- PL-4** **John E. Macaluso**, "The Effect of PHR Variations on the Physical Properties of Flexible PVC Compound" (Advisor: S.B. Driscoll).
- PL-5** **Lisa M. Cavallaro**, "Accelerated Aging of a Radiopaque Filled Polyurethane" (Advisor: R.G. Stacer).
- PL-6** **Arun Hingorani**, "Experimental Verification on the Effects of a Rigid Angle Bend on Pressure and Temperature During Mold Filling Process" (Advisor: S.P. McCarthy).
- PL-7** **Deepak H. Mehta**, "Preparation and Study of Polymer Blends of Recycled Poly (Ethylene Terephthalate) and Virgin Poly (Butylene Terephthalate)" (Advisor: S.J. Grossman).
- PL-8** **Andreas Holzner**, "Development of a Measurement Probe for Indirect Pressure Sensing in Biomechanics" (Advisor: N.R. Schott).
- PL-9** **Franz J. Niedermeier**, "Production of Thermoplastic Elastomers Based on an Ethylene-Co-Vinyl Acetate Soft Phase by Blending with Commercial Thermoplastics" (Advisor: R.D. Deanin).

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- PL-10** **Alfred R. Berube, Jr.**, “Investigation of the Impact Strength of Integral Living Hinge” (Advisor: S.P. McCarthy).
- PL-11** **Wen Jie Qiu**, “Injection Molding Process Monitoring Based on Cavity Pressure” (Advisor: R.A. Malloy).
- PL-12** **Anand P. Chinnaswamy**, “Development of a Cavity Pressure Based Production Monitoring System for Injection Molding” (Advisor: R.A. Malloy).
- PL-13** **Jen Chyou Hwang**, “Experimental Evaluation of Lead Encapsulation by Encapsulant Coating” (Advisor: F.S. Lai).
- PL-14** **Manish Gada**, “Plasticization of PHVB Using PCL and PEG as Plasticizers” (Advisor: S.P. McCarthy).
- PL-15** **George F. Bixby**, “Recycled Cellulose Fiber Reinforced Phenolic Composites” (Advisor: R.D. Deanin).
- PL-16** **Dharmesh K. Dubey**, “Compatibilization Studies of Biodegradable Plastics by Reactive Processing” (Advisor: S.P. McCarthy).
- PL-17** **Andrew P. Pisano**, “Optimizing Energy Return in a Compression Molded Ethylene Vinyl Acetate Foam Using Taguchi’s Methodology” (Advisor: F.S. Lai).
- PL-18** **Michael J. Orroth**, “The Effects of Polypropylene Contamination on the Properties of Recycled High Density Polyethylene” (Advisor: R.A. Malloy).
- PL-19** **Thomas T. Ngwa**, “Lead Based Paint Encapsulation by Liquid Encapsulants” (Advisor: F.S. Lai).
- PL-20** **Nirav N. Desai**, “Solid Plasticizer in Reinforced Rigid PVC” (Advisor: R.D. Deanin).
- PL-21** **Brett W. Weber**, “Evaluation of Epoxy/Polycarbonate Blends, A Semi- Interpenetrating Polymer Network” (Advisor: R.A. Malloy).
- PL-22** **Tsung-Hsiun Wu**, “Effect of Moisture on Mechanical Properties of Glass Fiber-Filled Nylon-66” (Advisor: J.C. Huang).
- PL-23** **Peter J. Rucinski**, “Izod Impact Strength: Molded-in Versus Machined-in Notches for Polymethyl Methacrylate” (Advisor: R.A. Malloy).
- PL-24** **Murali Bandreddi**, “An Investigation of Time Based Holding Pressure Profiles” (Advisor: R.E. Nunn).
- PL-25** **Selvadurai Thabenthiran**, “Polymer Friction and Lubrication” (Advisor: R.D. Deanin).
- PL-26** **Kim M. Burke**, “An Experimental Study of the Effect of Various Stabilizers on the Appearance of Gels in Extruded Polyethylene Film” (Advisor: R.A. Malloy).
- PL-27** **Ashish P. Shah**, “A Study of Coefficients of Linear Thermal Expansion of Reinforced Engineering Thermoplastics” (Advisor: R.D. Deanin).

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- PL-28** **Arjun Sinha**, "Sorpton in Biodegradable Materials" (Advisor: S.P. McCarthy).
- PL-29** **Raquel M. Procopio**, "An Experimental Evaluation of the Effect of Lubrications on Ultrasonic Welding" (Advisor: R.A. Malloy).
- PL-30** **Xu Cai**, "The Plasticization of Cellulose Acetate (DS = 2.5) and the Preparation of its Composites with Poly- ϵ -Caprolactone-767" (Advisor: S.P. McCarthy).
- PL-31** **Hua Cai**, "A Study of Biodegradable Plasticized Cellulose Acetate" (Advisor: S.P. McCarthy).
- PL-32** **Sanjay B. Patel**, "Minimizing the Holding Pressure Requirements for the Injection Molding Process Using Mechanical Valve Gates" (Advisor: R.A. Malloy).
- PL-33** **Amol P. Parkar**, "Glass Fiber Length Degradation in the Feed Zone of an Injection Molding Screw" (Advisor: R.E. Nunn).
- PL-34** **Sujal N. Bhalakia**, "An Experimental Study on Processing of Biodegradable Polymers and Their Blends" (Advisor: S.P. McCarthy).
- PL-35** **Sudesh B. Appaji**, "Residence Time Effects on the Properties of Vented Barrel Injection Molded Polycarbonate Parts" (Advisor: R.E. Nunn).
- PL-36** **Pamela S. Gardner**, "A Review of Stabilization Aspects of Polypropylene Designed for Fiber Applications" (Advisor: R.D. Deanin).
- PL-37** **Carlos Hinton**, "Die Swell, Elasticity, Shear Rate, Angular Frequency and Die Aspect Ratio for Plastic Melts at the Upper Processing Temperature Limit" (Advisor: S.B. Driscoll).
- PL-38** **Kapil B. Gami**, "Impact Modifiers for Chlorinated Polyvinyl Chloride" (Advisor: R.D. Deanin).
- PL-39** **Paul R. Mitchell**, "Polypropylene Cast Film Extrusion Using Water Bath Cooling" (Advisor: N.R. Schott).
- PL-40** **Chetan J. Parikh**, "Study of Physical and Rheological Properties of PC/ABS Blends" (Advisor: R.D. Deanin).
- PL-41** **Barry J. Curtis**, "Improving the Quality of Post Consumer HDPE for Use in High Quality Applications" (Advisor: R.A. Malloy).
- PL-42** **William A. Berthiaume**, "Precutaneous Transluminal Coronary Angioplasty Electrode Guidewire for Blood Flow Measurements" (Advisor: S.P. McCarthy).
- PL-43** **Te-Yeu Su**, "A Study of the Effects of Fiber Blend Ratio on Tensile Characteristics of Thermoplastically Bonded Kevlar Fiber Composites" (Advisor: A. Tayebi).

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- PL-1** **Yeong-Shuh Wang**, "An Experimental Study of Ejection Temperature and Cooling Time for Injection Molding" (Advisor: F.S. Lai).
- PL-2** **Dennis M. Burke**, "Compatibility and Unplasticized Polyvinyl Chloride and Polymethyl Methacrylate Blends" (Advisor: S.B. Driscoll).

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- PL-3** **Thies Janczek**, “A Measurement of Rubber-Matrix Adhesion and Its Correlation with Material Parameters to Predict Toughening in Commercial Thermoplastics” (Advisors: N.R. Schott/R.D. Deanin).
- PL-4** **Lothar Klimek**, “Development of a Method for Dimensioning Dynamically Stressed Plastic Structural Members” (Advisor: N.R. Schott).
- PL-5** **Shaikh M. Rashid**, “Effect of Wall Thickness on Impact Strength” (Advisor: R.D. Deanin).
- PL-6** **Jennifer C. Griffin**, “Evaluation of PET and Recycled PET as Replacements for a PETG Packaging Tray” (Advisor: S.B. Driscoll).
- PL-7** **Ying-Ti Chu**, “Polyoxypropyleneamine/Diethyltoluenediamine Blend Curing Agent System for Epoxy Resins” (Advisor: J.C. Huang).
- PL-8** **Kim-Sweet Leong**, “Melt Fracture of Polypropylene in Capillary Flow” (Advisor: J.C. Huang).
- PL-9** **Scott L. Hietmann**, “Materials and Process Evaluation to Determine the Best Combination for Use in a Composite Mountain Bike Handlebar” (Advisor: N.R. Schott).
- PL-10** **J. Evelene Huguenin**, “A Study of Ultraviolet Light Exposure and Weathering of Low Density Polyethylene Foams” (Advisor: R.D. Deanin).
- PL-11** **Jan E. Andrusaitis**, “Dielectric and Mechanical Response Properties of Polyurethane Syntactic Foam” (Advisor: R.G. Stacer).
- PL-12** **Eileen M. Dufour**, “The Chemical Agents Resistant Coating (CARC) System” (Advisor: R.D. Deanin).
- PL-13** **Jack Tseng**, “Recycling of Post Consumer Automotive Carpet” (Advisor: R.A. Malloy).
- PL-14** **Manish Kandpal**, “Weld Line Strength of Poly (Methyl Methacrylate)” (Advisor: R.G. Stacer).
- PL-15** **Dalit Carmon-Attia**, “Developing the Extrusion Processing Parameters of 85/15 Poly (DL-Lactic Acid)/Poly (ϵ -Caprolactone) Copolymer and Evaluating the Effects of γ -Radiation on the Film’s Properties” (Advisor: A.M. Crugnola).
- PL-16** **Andrew Pawlowicz**, “Braidtrusion, A Method for Continuous Formation of Braid Reinforced Thermoplastic Structural Members” (Advisor: A. Tayebi).
- PL-17** **David M. Spagnuolo**, “Chemical, Processing and Orientation Effects on the Environmental Stress-Crack Resistance of Medium Density Polyethylenes” (Advisor: S.P. Petrie).
- PL-18** **Voravit Varongchayakul**, “High Density Polyethylene and Polypropylene Polyblends by Single Screw and Twin Screw Extrusion” (Advisor: R.D. Deanin).
- PL-19** **Yong-Suk Chai**, “Theory and Applications of Monopolymer and Bipolar Membranes” (Advisor: J.C. Huang).
- PL-20** **Ajay M. Gajria**, “Effects of Physical Aging and Miscibility on Biodegradability of Poly(Lactic Acid)/Poly(Vinyl Acetate) Blends” (Advisor: S.P. McCarthy).

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- PL-21** **James A. Kascheres**, “Effects of Injection Velocity on the Weld Line Strength and Residual Stress of Injection Molded Polyetherimide” (Advisor: R.A. Malloy).
- PL-22** **Vatsal P. Ghiya**, “Effect of Citric Esters on PHVB, PCL and CA as Biodegradable Plasticizers” (Advisor: S.P. McCarthy).
- PL-23** •**Lalit Dodani**, “The Time-Temperature Dependence of Relaxation Processes in Styrene-Butadiene-Styrene Block Copolymers” (Advisor: R.G. Stacer).
- PL-24** **Svetlana Bitman**, “Expanded Polytetrafluoroethylene Technology (Expanded PTFE)” (Advisor: R.D. Deanin).
- PL-25** **Vinod Miranda**, “A Study of the Effect of Gate Design on Holding Time by Theoretical Calculations, Computer Flow Simulation and Experimentation” (Advisor: F.S. Lai).
- PL-26** **John Beaumont**, “An Investigation with the Use of Commingled Plastic Waste for Structural Products” (Advisor: R.A. Malloy).
- PL-27** **Pia I. Santelices**, “Distortion of Poly(Ethylene Terephthalate) Films Induced by a High Temperature Lamination Process” (Advisor: R.G. Stacer).
- PL-28** **Richard L. Ford**, “Ultrasonic Welding with Amplitude Profiling” (Advisor: S.B. Driscoll).
- PL-29** **Patraporn Tantakom**, “Effect of Gate Design and Molding Conditions on the Optical properties of Injection Molded Lenses” (Advisor: N.R. Schott).
- PL-30** **Kimberly A. Wilder**, “A Study in the Recyclability of Computer Diskettes” (Advisor: R.A. Malloy).
- PL-31** •**Anil R. Bhogesara**, “Injection Molding Manufacturing Productivity Machine Setup” (Advisors: R.E. Nunn/S.P. McCarthy).
- PL-32** **Venkat Reddy**, “In-Situ Real Time Monitoring of the Transient Melt Temperatures in the Nozzle During Injection Molding via IR Pyrometry” (Advisor: N.R. Schott).
- PL-33** **Mohammad Ali**, “Poly (Aryl Phosphate) Oligomers as Flame Retardants in Thermoplastics” (Advisor: R.D. Deanin).
- PL-34** **Venkatappa C. Jambulapati**, “A Fundamental Study of the Twin Sheet Thermoforming Process” (Advisor: S.A. Orroth).
- PL-35** **Timothy J. Fesko**, “Controlling Structural Foam Extrusion Through Processing” (Advisor: S.A. Orroth).
- PL-36** **Talavane S. Suryanarayan**, “An Investigation of Time Based Holding Pressure Profiles” (Advisor: R.E. Nunn).
- PL-37** **Thomas R. Clinton**, “Chemical, Materials and Processing Effects on the Properties of Polytetrafluoroethylene” (Advisor: S.P. Petrie).
- PL-38** **Steven P. Griffin**, “The Interaction of a Slip Additive, Erucamide, and Corona Treatment in Low and High Density Polyethylene Extrusion Coated Film” (Advisor: S.A. Orroth).

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- PL-39** **Jeffrey M. Barboza**, “Analysis of Modified Polytetrafluoroethylene” (Advisor: S.B. Driscoll).
- PL-40** **Paul E. Burke**, “The Effect of Compounding Parameters on the Viscosity and Surface Appearance of a Semi-Rigid PVC Compound” (Advisor: R.D. Deanin).
- PL-41** **Michael R. Conboy**, “Rheological Behavior of Polypropylene/Polystyrene Alloys” (Advisor: R.A. Malloy).
- PL-42** **Hina K. Patel**, “Effect of Design and Process Variables on the Mechanical Behavior of Long Glass Fiber Reinforced PC/ABS Blends” (Advisor: R.A. Malloy).
- PL-43** **Sandip R. Mehta**, “Characterization of Syntactic Polyurethane Foams for Use in a Ceramic/Polymeric Composite Structure” (Advisor: R.G. Stacer).
- PL-44** **Mihir Sheth**, “Processing and Characterization of Biodegradable Polymers” (Advisor: S.P. McCarthy).
- PL-45** **Julian Leingartner**, “A Survey of the Stretching Forces in Polymeric Film During Biaxial, Monoaxial, and Uniaxial Stretching” (Advisor: N.R. Schott).
- PL-46** **Vivek A. Naik**, “Polysulfone/Polyetheramide Polyblends: High-Impact Strength Engineering Thermoplastics” (Advisor: R.D. Deanin).
- PL-47** **K. Glen Suh**, “Short and Long Glass Fiber Composites: Orientation and Moldfilling Simulation” (Advisor: S.P. McCarthy).
- PL-48** **Feng Yan**, “Effect of Additives on the Properties of Commingled Automotive Carpet Scrap” (Advisor: R.A. Malloy).
- PL-49** **Timothy J. Bernier**, “Cellulose Acetate Structural Foam” (Advisor: R.D. Deanin).
- PL-50** **Cynthia Feinberg-Kessel**, “High Impact Nylon Alloys” (Advisor: S.B. Driscoll).

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- PL-1** **Mohmad J. Shaikh**, “Mechanical Properties-Composition Relationships of Bisphenol A Polycarbonate/Acrylonitrile-Butadiene-Styrene Blends” (Advisor: R.D. Deanin).
- PL-2** **Michael D. Holloway**, “A Study of the Design, Process and Application of Single and Twin Screw Extruders for the Reactive Extrusion of Polymeric Materials” (Advisor: R.D. Deanin).
- PL-3** **Sunil P. Pinto**, “Investigation of the Effects of Processing Parameters, Moisture, Regrind and Heat Aging on the Physical Properties of 15% Glass Reinforced Polybutylene Terephthalate” (Advisor: S.B. Driscoll).
- PL-4** **Monika Zimmermann**, “Development of a Test Apparatus to Verify Results of an Analytical Model in Order to Scale-up Plastic Product Designs Subjected to a Vibrational Movement” (Advisor: N.R. Schott).
- PL-5** **Vineet Kapila**, “An Experimental Study to Investigate the Influence of Processing Conditions in the Gas-Assisted Injection Molding Process” (Advisor: N.R. Schott).

PL-6 •**Lynn M Rembiszewski**, “The Characterization of the Expansion and Contractile Behavior of a Polyacrylamide Gel” (Advisor: R.G. Stacer).

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PL-7 **Dhruv J. Shah**, “Effects of Gate Design on the Processing Latitudes of Engineering Thermoplastics” (Advisor: R.D. Deanin).

PL-8 **Sunil K. Arjun**, “Effects of Processing Parameters, Moisture, Regrind and Heat Aging on the Physical Properties of 15% Glass Reinforced Polybutylene Terephthalate” (Advisor: R.E. Nunn).

PL-9 **Aiguo Shi**, “Effect of Ultrasonic Welding Variables on Weld Strength of Thermoplastics” (Advisor: R.D. Deanin).

PL-10 **Glen F. Lewis**, “Study of Creep Properties of Thermoplastic Elastomers for Use in the Design of a Vibration Isolator” (Advisor: R.G. Stacer).

PL-11 **Christel L. MacLellan**, “A Study of the Reproducibility and Repeatability of Dynamic Mechanical Tests on Polymers and Metals” (Advisor: T. Erturk).

PL-12 **Ricky Lo**, “Structural Analysis and Materials Selection for a Professional Loudspeaker” (Advisor: J.C. Huang).

PL-13 **Richard J. Donahue**, “An Evaluation of the Physical Properties of Cast Polyurethanes and Rapid Prototyping Resins” (Advisor: R.A. Malloy).

PL-14 **Cherukupalli Rajesh**, “Literature Search on Structural Foam” (Advisor: R.D. Deanin).

PL-15 •**William P. Benoit II**, “Rheological Aspects of Polymer Alloys/Blends Compatibility According to Processability and Functionality as Determined by Dynamic Mechanical Rheology Testing” (Advisor: S.B. Driscoll).

PL-16 **Mark B. Jones**, “Ultrasonic Welding Shear Joint Design Characterization” (Advisor: S.B. Driscoll).

PL-17 **Tareq Haque**, “A Study of the Biodegradability of Cellulose Acetate and Polyethylene Glycol Blends and the Effect of Morphology on the Biodegradation of Cellulose Acetate” (Advisor: S.P. McCarthy).

PL-18 **Prasanna Godbole**, “An Experimental Evaluation of Vent Depths for Injection Molds” (Advisor: R.A. Malloy).

PL-19 •**Kenneth F. Ryan, Jr.**, “Elastomers as Energy Dissipaters in Ballistic Events” (Advisor: R.G. Stacer).

PL-20 **Garrett P. Gardner**, “A Moving Boundary Technique in Injection Molding to Strengthen Weld Lines” (Advisor: R.A. Malloy).

PL-21 **Kerry A. Lomasney**, “A Study of Fabrication and Characterization of PSF Ultrafiltration Membranes with PEO-PSF Block Copolymer Additives” (Advisor: S.P. McCarthy).

PL-22 **Ronald S. Ciulla**, “Compatibility of Ionomer Polyblends” (Advisor: R.D. Deanin).

PL-23 Michael D. Puma II, “Foam Extrusion of a Single Site Metallocene Polymer” (Advisor: S.A. Orroth).

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PL-24 •Batu Berkok, “Effect of Reinforcing Fillers on the Properties of Counterpressure Intrusion Processed Foamed Plastics Lumber” (Advisor: R.A. Malloy).

PL-25 Dean R. Piepiora, “Interfacing 3D CAD with Injection Molding Analysis Software to Verify Plastic Part Design” (Advisor: S.P. McCarthy).

PL-26 Shanaz Bemer, “A Review of Design for Recycling and Disassembly of Automotive Plastics” (Advisor: R.A. Malloy).

PL-27 Venkatesh Natarajan, “Investigation of Cavity-to-Cavity Variations in Multi-Cavity Tools” (Advisor: F.S. Lai).

PL-28 Yao Cheng, “Optimal Product and Process Design for the Plastic Corrugated Board” (Advisor: S.P. McCarthy).

PL-29 Bradley T. Schellhase, “A Study of the Effects of Molecular Orientation on the Physical Properties of Plastics” (Advisor: S.B. Driscoll).

PL-30 Steven R. Thibodeau, “A Study to Reduce Stress Cracks in Painted Acrylic Automotive Lenses During Production” (Advisor: S.B. Driscoll).

PL-31 Neeraj Munot, “Impact Modification of Rigid Polyvinyl Chloride Using Polyetherester Thermoplastic Elastomer” (Advisor: R.D. Deanin).

PL-32 Lisa V. Labrecque, “The Effects of Citrate Esters as Plasticizers for Poly(Lactic Acid)” (Advisor: S.P. McCarthy).

PL-33 Richard W. Royster, “Organotin Heat Stabilization of Vinyl Topcoats” (Advisor: R.D. Deanin).

PL-34 Joseph M Lak, “Vibration Analysis of Glass Fiber Reinforced Polypropylene” (Advisor: S.B. Driscoll).

PL-35 Kevin F. Shaw, “A Survey of the Economic Viability of Transparent High Barrier Coated Films in the Flexible Packaging of Foods Market” (Advisor: R.D. Deanin).

PL-36 John R. Bussiere, “Understanding the Utilization of Cantilever Snap-Fits for the Assembly of Plastic Components” (Advisor: R.A. Malloy).

PL-37 Ann Marie Lak, “The Effects of Processing Conditions on the Properties of Ultra High Molecular Weight Polyethylene by Means of RAM Extrusion” (Advisor: N.R. Schott).

PL-38 Wei Chu, “Polymer Blends of Ionic and Non-Ionic Thermoplastics” (Advisor: R.D. Deanin).

PL-39 Anil Kumar, “An Evaluation of Plasticating Extrusion Screw Designs for Recycled Blow Molding Grade High Density Polyethylene” (Advisor: R.A. Malloy).

PL-40 •Michael A. Martucci, “Polyblends of Bisphenol - A Polycarbonate with 25% Pre/Post Consumer Recycle Content ABS” (Advisor: R.D. Deanin).

PL-41 Peggy O'Brien Angelo, "Correlation of Optical Surfaces Through Use of Designed Experiments" (Advisor: S.P. McCarthy).

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PL-42 Amit Gupta, "Product Design of a Medical Connector Used for Peritoneal Dialysis" (Advisor: N.R. Schott).

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PL-1 John R. Blaisdell, "Injection Molding of a Thick Wall, Zero Draft Angle Radome" (Advisor: N.R. Schott).

PL-2 Pratik K. Nanavaty, "Rheological Properties of Mineral Filled Polypropylene" (Advisor: S.B. Driscoll).

PL-3 Yunshang Ma, "Cure Kinetics of Phenolic Novolac Resins" (Advisor: R.D. Deanin).

PL-4 Richard J. LaPorte, "Hydrophilic Polymer Coatings in the Development and Manufacture of Medical Devices" (Advisor: R.D. Deanin).

PL-5 Michael R. Sansoucy, "An Investigation into Rapid Manufacturing of Insert-Injection Molded Parts with the Use of Stereolithography Cavities" (Advisor: F.S. Lai).

PL-6 Frank D. Bernotat, "Technical and Economic Comparison of Two 8000 KN Class Injection Molding Machines" (Advisor: N.R. Schott).

PL-7 Peter Ellinger, "Influence of Aging Factors on the Recyclability of Thermoplastic Resins from Automotive Applications" (Advisor: R.D. Deanin).

PL-8 Wolfgang H. Gruenauer, "The Effect of Different Regrind Percentages and Number of Reprocessing Stages on the Impact Fatigue Limit and Failure Mechanisms of Flame-Retardant and Non-Flame Retardant SGFR-Polybutylene Terephthalate" (Advisor: N.R. Schott).

PL-9 Mihir Contractor, "Weld Line Appearance and Strength Characteristics of Pigmented and Non-Pigmented Grades of Rubber Modified Acrylic/ Polycarbonate Blend" (Advisor: R.A. Malloy).

PL-10 Theresa S. Scalzi, "The Effects of Temperature on Thermoplastic Polyesters" (Advisor: S.B. Driscoll).

PL-11 Hung-Li Huang, "Carbon Black Filled Metallocene Elastomers" (Advisor: J.C. Huang).

PL-12 Jinseog Choi, "Thermoplastic Composite for Ballistic Applications" (Advisor: S.P. McCarthy).

PL-13 Niclis R. Kouloungis, "Aerobic Biodegradability of Citrate Ester Plasticizers and Plasticized PLA Films in Simulated Soil and Compost Environments" (Advisor: S.P. McCarthy).

PL-14 Shanthakumar R. Srinivasa, "A Microeconomic Analysis of the Plastics Industry in the United States of America and the State of Massachusetts" (Advisor: S.P. McCarthy).

PL-15 Sotirios Kourtis, "Blends of Polyvinyl Chloride with Thermoplastic Polyurethane" (Advisor: R.D. Deanin).

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- PL-16 Harsh Bhagat**, “Polyblends of Ionomers and Thermoplastic Elastomers” (Advisor: R.D. Deanin).
- PL-17 Christopher Cooper**, “Development of a Gas-Counterpressure Intrusion Process for the Production of Foamed Plastics Lumber” (Advisor: R.A. Malloy).
- PL-18 Jaroonsak Cheewathammanon**, “The Effect of Processing Conditions on Styrene Butadiene Elastomer Foam with Various Chemical Blowing Agents” (Advisor: F.S. Lai).
- PL-19 Bradford C. Thorne**, “Effects of Plasticating Conditions on the Properties of Recycled High Density Polyethylene/Polypropylene Blends (Advisor: R.A. Malloy).
- PL-20 Ravi Siddappa**, “An Investigation into Dimensional Control in Hetero-Cavity® Custom Injection Molding” (Advisor: F.S. Lai).
- PL-21 Franz Milli**, “Developments in Blow Molding Materials, Tooling, Process Control and Instrumentation” (Advisor: N.R. Schott).
- PL-22 •Malav A. Mehta**, “Development of a Methodology to Determine and Optimize Bond Strength for Coinjection Molded Parts” (Advisor: R.G. Stacer).
- PL-23 Dharmendra Vahalia**, “Visco-Elastic Characterization of Material Candidates for Oil-Ring Seal Application” (Advisor: N.R. Schott).
- PL-24 John J. Kummilil**, “Validation of the Blister Peel as a Method of Measuring Adhesion” (Advisor: R.G. Stacer).
- PL-25 Dan Ben-Daat**, “Extrusion of Biodegradable Foam” (Advisor: S.P. McCarthy).
- PL-26 Shih-Fang Chuang**, “A Study of the Effects of Plasticizer on Carbon Black Filled Elastomers” (Advisor: J.C. Huang).
- PL-27 Balaji Srinivasan**, “Plastics Recycling Research at UMass Lowell: Contributing to the Needs of Industry and Society” (Advisor: R.D. Deanin).
- PL-28 John M. Veilleux**, “Modulus Properties of Triaxially Braided Carbon Fiber/ Epoxy Spars” (Advisor: S.P. Petrie).
- PL-29 Stacie Dumont**, “In-Line Viscosity Measurements for the Reciprocating Screw Extrusion Blow Molding Process” (Advisor: R.A. Malloy).
- PL-30 Michael J. Janczyk**, “Thermal Design and Analysis of Stereolithography Rapid Tooling for Injection Molding” (Advisor: S.P. McCarthy).
- PL-31 Katherine M. Sahlin**, “The Effect of Sintering Conditions on the Dimensional Changes of a PTFE-Coated Woven Fiberglass Composite” (Advisor: R.D. Deanin).
- PL-32 Christopher J. Beard**, “Injection Molding of Long Fiber Reinforced Thermoplastics for New Product Development and Proof of Concept” (Advisor: R.A. Malloy).
- PL-33 R. Julian Portway**, “An Investigation into the Use of Carbon Fiber Pre-Preg Scrap as a Reinforcement for Polyethylene Based Plastic Lumber” (Advisor: R.A. Malloy).

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- PL-34 Rohith R. Kudrathaya**, “A Study on the Effects of Recycling Histories on Glass Fiber Reinforced, High Density Polyethylene” (Advisor: R.A. Malloy).
- PL-35 Gaurav Verma**, “Coinjection Molding of Thermoplastics Elastomers with Different Thermoplastics to Study the Bond Strength of each Using Solubility Parameters of Different Polymers” (Advisor: R.G. Stacer).
- PL-36 Sameer Parasnis**, “An Evaluation of Foamed Plastics Lumber Produced from Scrap Business Machine Housings” (Advisor: R.A. Malloy).
- PL-37 Mark E. Duffett**, “Analysis of the Weld Line Sealing Strength of Extrusion Blow Molded Specimens” (Advisor: S.A. Orroth).
- PL-38 Peter G. Strickler**, “Recycle of Industrial Carpet Trim Scrap Blended with Post Consumer Reclaim” (Advisor: R.A. Malloy).
- PL-39 Richard M. McLaughlin, Jr.**, “A Structural Analysis and Design of Aces Stereolithography Inserts for Rapid Tooling of Prototype Injection Molds” (Advisor: S.P. McCarthy).
- PL-40 Mahesh D. Rohra**, “A Study of the Properties and Paintability of Polypropylene/ α -Olefin Blends” (Advisor: C. Barry).
- PL-41 Richard J. Gavlik**, “A Study on the Compatibility of Polyethylene Terephthalate/ Polypropylene Blends” (Advisor: R.D. Deanin).
- PL-42 Anand Damani**, “Polyblends of Polystyrene and High Impact Polystyrene with Styrene Ethylene Butylene Styrene Thermoplastic Elastomer” (Advisor: R.D. Deanin).
- PL-43 Anand A. Khare**, “The Relationship Between Processing Conditions and Properties in Chemically Blown Injection Molded Nylon Foams” (Advisor: F.S. Lai).
- PL-44 Jerome P. Janousek, Jr.**, “Analysis of Lab Simulated Adhesion of In-Mold Film Versus Actual In-Mold Adhesion” (Advisor: R.G. Stacer).
- PL-45 Vishal A. Mehta**, “Injection Moldability of Crosslinked Polyethylene Re grind” (Advisor: N.R. Schott).

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- PL-1 Bhadresh Sheth**, “Rheological Characterization of Thermoplastic Elastomers for a Dental Application” (Advisor: S.B. Driscoll).
- PL-2 German V. Laverde**, “Analysis of the Mechanical Properties of Biodegradable Films Made from Blends of Polylactic Acid (PLA) and Polybutylene Succinate Adipate Random Copolymer by Blown Film Extrusion” (Advisor: S.P. McCarthy).
- PL-3 Prasad Joshi**, “A Novel Technique to Determine the Swelling Ratio and Crosslink Density of UHMWPE Thin Films for Use in Prosthetic Devices” (Advisor: A.M. Crugnola).
- PL-4 Gopal R. Saraiya**, “A Study of the Process Characteristics of the Gate Freeze Point in Injection Molding Using Screw Position as an External Indicator” (Advisor: R.E. Nunn).

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- PL-5** **Mark A. Jozokos**, “Melt Temperature Measurements Under Static and Dynamic Conditions for Polymer Melts” (Advisor: R.A. Malloy).
- PL-6** **Joachim Ruckdeschel**, “Use of SPC Methods Via Data Acquisition to Control Shrinkage and Warpage of a Microwave Oven Switch Housing” (Advisor: N.R. Schott).
- PL-7** **Michael J. Corvino**, “An Investigation into the Use of Reinforcing Ribs for Thinwall Injection Molded Parts” (Advisor: R.A. Malloy).
- PL-8** **Rishi Mehra**, “A Study on the Performance of High Fly Ash Concentration in HDPE Lumber” (Advisor: R.A. Malloy).
- PL-9** **Toshiaki Kakemura**, “An Experimental Study on Cooling Time Reduction in Extrusion Blow Molding” (Advisor: N.R. Schott).
- PL-10** **Quentin F. Polosky**, “A Mechanical Property Performance Comparison for Plastic Parts Produced in a Rapid Epoxy Tool and Conventional Steel Tooling” (Advisor: R.G. Stacer).
- PL-11** **Roger L. Labrecque, Jr.**, “Biodegradable Polymer Blends of Poly Lactic Acid and Poly Ester Amide” (Advisor: S.P. McCarthy).
- PL-12** **Ricky C. Wong**, “Polyblends of Phenolic Molding Compound with ABS” (Advisor: R.D. Deanin).
- PL-13** **Mandar Damle**, “Effect of Fiber Orientation on the Mechanical Properties of an Injection Molded Part and a Stereolithography Insert Molded Part” (Advisor: S.P. McCarthy).
- PL-14** **David T. Burns**, “Analysis of 1 Micron Thickness Metal Coating Effects on Stereolithography Rapid Tooling for Injection Molding” (Advisor: S.P. McCarthy).
- PL-15** **Shefali Korke**, “Analysis and Measurement of Warpage for Linear Flow of Amorphous and Crystalline Materials” (Advisor: F.S. Lai).
- PL-16** **Daniel J. Callahan**, “Evaluation of Natural Rubber/Butadiene Rubber Blends for the Comparison of Banbury Mixing Methods” (Advisor: R.G. Stacer).
- PL-17** **Rajesh Suryanarayanan**, “Development of Low Density Structural Foams of Nylon 6 for Injection Molding: Influence of Blowing Agents, Nucleating Agents and Processing Variables” (Advisor: F.S. Lai).
- PL-18** **Matthew J. Wioncek**, “The Effect of Notch Preparation Technique on the Pendulum Impact Resistance of Thermoplastics” (Advisor: R.A. Malloy).
- PL-19** **Sothy S. Lach**, “The Effect of Parison Inflation Pressure Profiles on Blow Molded Part Wall Thickness Distribution in Intermittent Extrusion Blow Molding” (Advisor: S.A. Orroth).
- PL-20** **Jing Lu**, “An Evaluation of Weld Line Strength for ABS” (Advisor: R.A. Malloy).
- PL-21** **S.V. Panvalkar**, “Polyblend Research at the University of Massachusetts Lowell” (Advisor: R.D. Deanin).

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- PL-22** **Hari Krishna B. Reddy**, "Impact Modification of Low-Impact Acrylonitrile Butadiene Styrene (ABS) with Thermoplastic Elastomers" (Advisor: S.B. Driscoll).
- PL-23** **Rick Bass**, "A Study of Photochemical Effects and Stabilization of Poly (Ethylene Terephthalate) Fibers" (Advisor: R.D. Deanin).
- PL-24** **Mehul Shah**, "A Comparison Between Mechanical Properties of Thin Wall and Conventional Injection Molded Specimens" (Advisor: N.R. Schott).
- PL-25** **Xu Song**, "Polypropylene Glycol and Poly (Propylene Glycol-Ethylene Glycol) Copolymer as Biodegradable Plasticizers for Polylactic Acid" (Advisor: S.P. McCarthy).
- PL-26** **Pratik Shah**, "A New Approach to Prepare Graded Refractive Index Polymer Optical Fibers by Extrusion of PMMA Rods" (Advisor: N.R. Schott).
- PL-27** **Philip D. Greco, Jr.**, "A Study into the Effect of Wicking Due to Capillary Action During the Curing of Epoxy Resins" (Advisor: N.R. Schott).
- PL-28** **Viraen Sood**, "Improved Heat Transfer for Cycle Time Reduction in Extrusion Blow Molding" (Advisor: N.R. Schott).
- PL-29** **Dheeraj Choudhary**, "The Effect of Die Geometry and Other Processing Parameters on Surface Characteristics of Polyethylenes and an Aliphatic Polyketone" (Advisors: S.A. Orroth/C. Barry).
- PL-30** **Aditya Kumar**, "Quantifying Pressure Loss in a Hot Runner Manifold" (Advisor: N.R. Schott).
- PL-31** •
- PL-32** **Audra T. Gavelis**, "Comparison of the Izod Impact Resistance of Thermoplastic Specimens with Molded and Machined Notches" (Advisor: R.A. Malloy).
- PL-33** **William P. Malavich III**, "Extrusion Foaming of a Very Low Density Polyethylene" (Advisors: S.A. Orroth/N.R. Schott).
- PL-34** **Linda Morawski**, "A Study of the Effects of Chemical Pretreatments for Bonding a Low Energy Polymer to a High Energy Surface" (Advisor: R.G. Stacer).

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- PL-1** **Thomas A. Poznick**, "Reactive Processing of Nylon 6 and Maleated Polyethylene" (Advisor: R.D. Deanin).
- PL-2** **Sandeep Saurkar**, "Rapid Tooling: A Study of Cooling Techniques for Mold Inserts Used in the Direct AIM (ACES Injection Molding) Process" (Advisor: S.P. McCarthy).
- PL-3** **Shailesh Patel**, "Polymer Blends Containing ABS" (Advisor: R.D. Deanin).
Degradation of Polyvinyl Chloride and the Loss of Properties" (Advisor: F.S. Lai).
- PL-4** **Nitin Chowdhary**, "Properties of Syndiotactic Polystyrene (SPS) Blends" (Advisor: S.B. Driscoll).

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- PL-5** **Jonathan A. Meckley**, “Rapid Preproduction Prototype Tooling Using Knowledge Based CAE Technology with a Method for Rapid Commercialization” (Advisor: S.P. McCarthy).
- PL-6** **Jeffrey A. Gray**, “Analysis of Adhesive Properties of Styrenic Based Thermoplastics to Polycarbonate by a Two-Shot Molding Process” (Advisor: R.A. Malloy).
- PL-7** **Robert J. Paradis**, “A Cost/Benefit Analysis of Aluminum and Direct AIM® Stereolithography Tooling” (Advisor: R.A. Malloy).
- PL-8** **Cheryl A. Fitzgerald**, “Case Study on How to Improve Production” (Advisor: S.P. McCarthy).
- PL-9** **Aisleena Tse**, “Recycling of Polyblends: High Density Polyethylene, Low Density Polyethylene and Polypropylene” (Advisor: R.D. Deanin).
- PL-10** **Mitesh B. Sheth**, “PVC Polyetherester Polyblends >PVC + PEE<” (Advisor: R.D. Deanin).
- PL-11** **Rima Moussa**, “The Characterization of Isopropylacrylamide Used in Robotic Applications” (Advisor: R.G. Stacer).
- PL-12** **Paul V. Boothroyd, Jr.**, “Computer Aided Instruction Injection Molding” (Advisor: F.S. Lai).
- PL-13** **Shari Fowler-Hutchinson**, “Superabsorbent Polymers” (Advisor: R.D. Deanin).
- PL-14** **Kimberly N. Nguyen**, “An Evaluation/Benchmarking of the Software ‘The Molder’s Technician’” (Advisor: N.R. Schott).
- PL-15** **Ashish B. Shah**, “In-House Polyblending of Polypropylene-EPDM Blends” (Advisor: R.D. Deanin).
- PL-16** **Anibor O. Kragha**, “The Development of a UV-Curable Material for an Existing Rapid Prototyping System” (Advisor: C. Barry).
- PL-17** **Vikas K. Patel**, “Single-Site Catalyzed Polyolefin for Fresh-Cut Produce Packaging - A Comparison Between Monoextruded Blends and Coextruded Film” (Advisor: S.P. McCarthy).
- PL-18** **Keith J. Barker**, “Compressible Flows in a Thermal Pulse Heating System for an Improvement in Thin-Wall Injection Molding of Thermoplastics” (Advisor: N.R. Schott).
- PL-19** **Jason F. Haley**, “Evaluation of Materials and Process Development for the Structural Integration of Passive Electronic Components” (Advisor: R.G. Stacer).
- PL-20** **Sona C. Parikh**, “Recycle of Mixed Automotive Plastics” (Advisor: R.D. Deanin).
- PL-21** **Prateek P. Paul**, “Fillers and Additives Research at the University of Massachusetts Lowell” (Advisor: R.D. Deanin).
- PL-22** **Krishnaraj N. Tejeswi**, “Recent Advances in Polyolefin Blends: A Bibliography 1990-1997” (Advisor: R.D. Deanin).
- PL-23** **Nikhil Dhongade**, “A Systematic Evaluation of New Materials for Plastics Doctor Blades” (Advisor: C. Barry).

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- PL-24 Prashant Trevedi**, “Synergism Between Hydrated Basic Magnesium Calcium Carbonate, Decabromodiphenyl Oxide and Antimony Trioxide as Flame Retardants for Polypropylene” (Advisor: R.D. Deanin).
- PL-25 Dhaval G. Broker**, “Recycling of Natural, Mixed Color and White HDPE Bottle Scrap” (Advisor: R.A. Malloy).
- PL-26 Shawn P. Davis**, “Comparison of 20 kHz and 40 kHz Ultrasonic Welding Processes” (Advisor: S.B. Driscoll).
- PL-27 Darpan N. Parikh**, “The Processability, Rheology and Physical Properties of Blends of High Melt Index and Fractional Melt Index Post Consumer HDPE Recyclate” (Advisor: R.A. Malloy).
- PL-28 Thomas J. Mulkern II**, “Effects of Reactive Processing on Polystyrene/ Hyperbranched Polyester Blends and Styrene Maleic Anhydride/Hyperbranched Polyester Blends” (Advisor: S.J. Grossman).
- PL-29 Karen Y. Manherz**, “Epithelial and Fibroblast Growth on Biodegradable Polymers” (Advisor: S.P. McCarthy).
- PL-30 Brian A. Fitzpatrick**, “A Comprehensive Review of Ultra High Molecular Weight Polyethylene Processed via Ram Extrusion and Vacuum Compression Molding Techniques” (Advisor: A.M. Crugnola).
- PL-31 Neil Mehta**, “An Evaluation of the Physical Properties of Cast Polyurethanes and Comparison with Thermoplastic Resins” (Advisor: S.P. McCarthy).
- PL-31 Niraj Desai**, “The Effect of Fillers on the Mechanical and Thermal Properties of High Density Polyethylene” (Advisor: R.A. Malloy).
- PL-32 Shamit M. Hakani**, “A Study of Flexible Polyolefins (FPO) as an Alternative to PVC in Medical Applications and Oxidative Induction Time Test of α -Tocopherol and γ -Oryzanol as Antioxidants for FPO” (Advisor: S.P. McCarthy).
- PL-33 Ashish Munot**, “Use of Stereolithography for Extrusion Dies” (Advisor: S.A. Orroth).
- PL-34 Javier Prado**, “Chlorinated Polyethylene as a Compatibilizer for Blends of Styrene-Acrylonitrile with Ethylene-Propylene Rubber” (Advisor: R.D. Deanin).
- PL-35 Mesut Yurtseven**, “The Effect of Particle Size and Drying on the Physical and Mechanical Properties of Recycled PET” (Advisor: S.J. Grossman).
- PL-36 Dipen R. Parikh**, “Development of a Mixing Screw for Painted TPO Bumper Regrind” (Advisor: R.E. Nunn).
- PL-37 Frank J. Federico III**, “A Study Examining the Feasibility of Using Precipitated and Ground CaCO₃ Particles to Enhance Mechanical and Economic Properties of Biodegradable Polymers” (Advisor: R.G. Stacer).
- PL-38 Joan Howell**, “Determination of Polymer Crystallinity by Dynamic Mechanical Rheology” (Advisor: S.B. Driscoll).

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PL-39 **Renee H. Croteau**, "Positive Temperature Coefficient Effect of Nickel-Filled Nylon 12" (Advisor: R.G. Stacer).

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PL-1 **Wenguang Ma**, "An Investigation of Poly(Lactic Acid) (PLA) and Maleic Anhydride (MAH) Graft Copolymer (PLA-g-MAH) and its Blends with Polyethylene Glycol (PEG)" (Advisor: S.P. McCarthy).

PL-2 **Claire T. Reppucci**, "Evaluation of a Reflective High Solids Coating" (Advisor: R.G. Stacer).

PL-3 **Ravin B. Gami**, "The Effect of Recycle History and Granulator Screen Size on the Performance of Glass Fiber Reinforced Polypropylene" (Advisor: R.A. Malloy).

PL-4 **Ming Lu**, "The Effect of Recycle History on the Performance of Neat, Glass Fiber, Talc Filled Nylon 6" (Advisor: R.A. Malloy).

PL-5 **Ruixin Xu**, "Barrier Properties of Thermoplastic Elastomer (TPE) Films" (Advisor: R.G. Stacer).

PL-6 **Robert J. Caldicott**, "Commercial Development of a Recreational Bat" (Advisor: S.B. Driscoll).

PL-7 **Deeyu Tao**, "Izod Impact Testing: Effect of Pendulum Capacity on Impact Resistance" (Advisor: R.A. Malloy).

PL-8 **Fenil Jerajani**, "Blends of Reprocessed ABS and Nylon 6/6 Materials Using SMA as a Compatibilizer" (Advisor: S.B. Driscoll).

PL-9 **Tzai Shiuan Wong**, "Evaluation of a Software Package to Estimate Cost of an Injection Mold" (Advisor: N.R. Schott).

PL-10 **Paul Lunn**, "Polyblending of Polyphenylene Ether with Styrene-Ethylene/ Butylene-Styrene" (Advisor: R.D. Deanin).

PL-11 **Christopher N. Guimond**, "Melt Blending High and Low Melt Point Polymers: The Effect of Blending Methodology on the Properties of an Ethylene Vinyl Acetate/Aliphatic Polyketone Polymer Blend" (Advisor: R.A. Malloy).

PL-12 **Ankit P. Shroff**, "Recycling of High Density Polyethylene" (Advisor: S.B. Driscoll).

PL-13 **Sandip R. Patel**, "Analysis of Adhesive Properties of Different Engineering Thermoplastics to Elastomers by a Two-Shot Injection Molding Process" (Advisor: S.P. McCarthy).

PL-14 **Bhushan Parekh**, "A Characteristic Study of Properties of Six Engineering Thermoplastic Resins for Cellular Phone Housing Applications" (Advisor: S.B. Driscoll).

PL-15 **Vishal Kadakia**, "Combustion Characteristics of Flexible PVC" (Advisor: S.B. Driscoll).

PL-16 **Sagar Athavale**, "Comparison of Properties of Melt Blends with Physical Blends Using LDPE and LDPE" (Advisor: S.B. Driscoll).

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- PL-17** **Rahul H. Sarda**, “Effect of Die Coatings on the Surface Quality and Onset of Melt Fracture of the Extrudate” (Advisor: S.A. Orroth).
- PL-18** •**Vishal M. Shah**, “Characterization of Materials Used for Development of High Power Application Positive Temperature Coefficient Device” (Advisor: R.G. Stacer).
- PL-19** **Sunil D. Jain**, “Maleated EPDM Polyblends” (Advisor: R.D. Deanin).
- PL-20** **Nilesh K. Munot**, “Extrusion of Large Diameter Circular Plastics Rods Using a Temperature Controlled Water Bath” (Advisor: S.A. Orroth).
- PL-21** **Shiven J. Ruparel**, “Effect of Screw Speed on Devolatilization for a Vented Barrel Injection Molding Machine” (Advisor: R.E. Nunn).
- PL-22** **Timothy Vale**, “Practical Compatibility of Selected Polymer Blends and the Effect of Polycaprolactone” (Advisor: R.D. Deanin).
- PL-23** **Hemant Minocha**, “Polypropylene + Ethylene Propylene Rubber and Polypropylene + Ethylene Propylene Diene Rubber Blends as a Replacement for PVC/DOP Blends” (Advisor: R.D. Deanin).
- PL-24** **Nimish Gandhi**, “Cooling Time Reduction in Injection Molding of Slender core Parts Using Different Core Pin Materials” (Advisor: N.R. Schott).
- PL-25** **Brian C. MacLean**, “Coextruded Nylon-11 and Poly(Ether) Block Amide Tubing Design and its Effects on Mechanical Properties” (Advisor: S.B. Driscoll).
- PL-26** **Magda M. Castillo**, “Flexible Polyolefins and Low Density Polyethylene Blends for Film Extrusion Applications” (Advisor: S.J. Grossman).
- PL-27** **Pongphisanu Muangchareon**, “Properties of Carbon Black Filled Polycarbonate-Polypropylene Blends” (Advisor: J.C. Huang).
- PL-28** **Quoc T. Truong**, “Textile Property Performance Comparison of Selectively Permeable Materials and Traditional Chemical/Biological Protective Materials” (Advisor: R.G. Stacer).
- PL-29** **Jameel Ahmed**, “Process Stabilization Studies in Trapped Air Blow Molding” (Advisor: N.R. Schott).
- PL-30** **Prabir Patel**, “Design and Testing of Extruder Mixing Screws for Breakdown of Paint Flakes” (Advisor: R.E. Nunn).
- PL-31** **Sanjog S. Jain**, “Neoalkoxy Titanates and Zirconates in Thin Wall Injection Molding” (Advisor: S.P. McCarthy).
- PL-32** **Vijay Wani**, “A Study of Sequential Valve Gating System for the Injection Molding Process” (Advisor: N.R. Schott).
- PL-33** **Mary A. Flynn**, “Improved Process for the Coating of a Black and White Positive” (Advisor: R.D. Deanin).

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- PL-34 Sharon A. Elsworth**, “A Study of Electromagnetic Shielding Effectiveness of Metallized Polymeric Fabrics” (Advisor: C. Barry).
- PL-35 Nicki Girouard**, “Technological Evolution of Commercial and Military Aircraft Wire/Cable Insulation Materials” (Advisor: R.G. Stacer).
- PL-36 Norbert Mueller**, “Injection Molding the Bar Extension Measurements via Strain Gauge collars for Optimized Processing” (Advisor: N.R. Schott).
- PL-37 John M. Lipchitz**, “Investigation of the Degradation and Mechanical Properties of Bioabsorbable Polyesters and Their Blends” (Advisor: S.P. McCarthy).
- PL-38 Dhanuraj S. Shetty**, “Issues Concerning Storage of Blood in Polyvinyl Chloride Bags” (Advisor: A. Crugnola).
- PL-39 Sriram Raju**, “Effect of Nitric Acid on the Properties of Polyolefins” (Advisor: S.B. Driscoll).

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- PL-1 Navin N. Lalwani**, “Fiber Length in Glass Reinforced PBT” (Advisor: R.D. Deanin).
- PL-2 Florian J. Schneider**, “A Study of Fiber Length Degradation During Compounding of Chopped Glass Fibers and Polypropylene Using a Co-Rotating Self-Wiping Twin-Screw Extruder” (Advisor: F.S. Lai).
- PL-3 Christopher M. Shaffer**, “Approaching the Abrasion Resistance of Ultra High Molecular Weight Polyethylene by Crosslinking High Density Polyethylene During Extrusion” (Advisor: A.M. Crugnola).
- PL-4 Jeffrey A. Torone**, “Effects of Magnesium Hydroxides on the Physical Properties of a Semirigid PVC Used in Wire Coating” (Advisor: S.P. Petrie).
- PL-5 Mark T. Charbonneau**, “Post-Treatment of Gamma-Sterilized UHMWPE” (Advisor: A.M. Crugnola).
- PL-6 •Jeremy Thompson**, “Study on the Performance of ABS and Talc-Filled Polypropylene in HDPE Lumber” (Advisor: R.A. Malloy).
- PL-7 Suchetana K. Shetty**, “Effect of Toluene on the Properties of Styrenics: A Degradation Study” (Advisor: S.B. Driscoll).
- PL-8 Charles Spurrell**, “Automotive Engine Thermoplastic Cam Cover Development” (Advisor: R.G. Stacer).
- PL-9 Jonathan P. Knox**, “Properties of Noryl®/SEBS Polyblends” (Advisor: R.D. Deanin).
- PL-10 Boris L. Serebrennikov**, “Transient in-the-Mold Measurements of Thermal Diffusivity Using Injection Molded Cylinders” (Advisor: N.R. Schott).
- PL-11 Paresh Pungliya**, “Process Enhancement in Manufacturing Flexible Vinyl Films” (Advisor: S.B. Driscoll).

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- PL-12** **Hyeri Yi**, “Dynamic Mechanical Analysis as a Predictor of UHMWPE Wear in Total Joint Prostheses” (Advisor: A.M. Crugnola).
- PL-13** **Chetan M. Makadia**, “Nanocomposites of Polypropylene by Polymer Melt Compounding Approach” (Advisor: SP. McCarthy).
- PL-14** •**Anand Agrawal**, “Reduction of Stress-Whitening in Vinyl-Acrylic Topcoat for Auto Interiors” (Advisor: S.B. Driscoll).
- PL-15** •**Christopher P. Richard**, “Study of Recycled Rubber and Polypropylene Blends for Sports Surfacing Applications” (Advisor: R.G. Stacer).
- PL-16** **Yogish Mahadevaiah**, “Effect of an Acid and Solvents on the Weld Properties of ‘Kinetic’ Welded and Ultrasonically Welded Parts” (Advisor: S.P. McCarthy).
- PL-17** **Earl F. Bardsley**, “Epoxy Adhesives: Effect of Plasma Treatment and Surface Roughness on Epoxy to Polyethylene Bond Strength” (Advisor: S.P. Petrie).
- PL-18** **Vikram H. Mehta**, “Alternative Materials for a High-Volume Oral Hygiene Product” (Advisor: S.B. Driscoll).
- PL-19** **Anand M. Thadani**, “Quantifying the Effects of Die Gap and Roll Speed on the Mechanical Properties of a LLDPE Film” (Advisor: C. Barry).
- PL-20** **Deepak Arora**, “Development of Process Windows for Intermittent Extrusion Blow Molding” (Advisor: C. Barry).
- PL-21** **Mihir Sanghavi**, “Alternative to Styrene-Acrylic Copolymer for Intravenous (IV) Administration Sets” (Advisor: S.B. Driscoll).
- PL-22** **Matthew S. Carlone**, “Ultrasonic Weld Shear Strength of Mineral Filled and Glass Fiber Reinforced Polypropylene Blends” (Advisor: R.A. Malloy).
- PL-23** **Jesus E. Hernandez**, “Adsorption and X-Ray Induced Polymerization of Condensed 3-Hexylthiophene” (Advisor: J. Whitten).
- PL-24** •**Nirav Shah**, “Study of High Carbon Fly Ash Filled Thermoplastics” (Advisor: R.A. Malloy).
- PL-25** **Christopher P. Drew**, “Electrospinning of Polymeric Photovoltaic Cells” (Advisor: S. Tripathy).
- PL-26** **Ravi Kumar N. Ramasamudram**, “Effect of Coupling Agent in HDPE Blow Molded Products” (Advisor: S.P. McCarthy).
- PL-27** **Vishal M. Savla**, “Quantifying the Effects of Modified Montmorillonite Clays on Polystyrene” (Advisor: S.B. Driscoll).
- PL-28** **Robert J. Gregory**, “Compatibility Study of Polycarbonate/ABS Alloys Over Seven Process Generations” (Advisor: S.B. Driscoll).

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- PL-29** **Christian D. Smialek**, “Melt Blending of Polystyrene/Hyperbranched Polyester and Styrene-Maleic-Anhydride/Hyperbranched Polyester: An Investigation into Generation and Processing Technique Effects” (Advisor: S.J. Grossman).
- PL-30** **Kathleen C. Boivin**, “The Effects of Polypropylene Type, Ethylene-Butene Type, and Filler on the Properties of Thermoplastic Olefin Blends” (Advisor: C. Barry).
- PL-31** **Mark D. Joyce**, “Weld Line Failure in a Thin Wall Ring” (Advisor: S.P. McCarthy).
- PL-32** **Talat Sarac**, “Effect of Sheet and Plug Temperature on Formability of Thermoformed Parts” (Advisor: C. Barry).
- PL-33** **Udit Patel**, “Influence of Injection Molding Machine Variables on Plastication, Load Sensitivity and Transfer Position” (Advisor: S.P. McCarthy).
- PL-34** **Amit K. Dani**, “Impact Modification of Automotive Polypropylene with Metallocene Plastomers” (Advisor: S.B. Driscoll).

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- PL-1** **Debra-Jean Forgetta**, “The Effects of Density and Polymer Structure on the Properties of Low Density Polyethylene and Ethylene/Vinyl Acetate Foams” (Advisor: R.D. Deanin).
- PL-2** **Samir Sheth**, “A Study on the Effect of Process Parameters on the Spring Constant of Manometer Spring” (Advisor: S.B. Driscoll).
- PL-3** **Pankaj P. Shah**, “Recent Research on Thermosetting Resins” (Advisor: R.D. Deanin).
- PL-4** **Chetan S. Desai**, “Effect of Plasticizer Exposure on Mechanical Properties of Polycarbonate” (Advisor: S.B. Driscoll).
- PL-5** **Ankur Maheshwari**, “The Effects of Process Parameters on the Shrinkage and Tensile Properties of Stainless Steel and the Conductivity of Graphite Samples in Powder Injection Molding” (Advisor: S.P. McCarthy).
- PL-6** **Ronak Shah**, “In-Mold Transient Measurements of Thermal Diffusivity for Foams and Filled Materials Using Injection Molding Cylinders” (Advisor: N.R. Schott).
- PL-7** **Gary J. Gullo**, “The Morphology of Ternary Blends of Polyphenylene Sulfide in a Polyetherimide Matrix” (Advisor: S.B. Driscoll).
- PL-8** **Anand V. Bora**, “Recent Developments in Polyurethanes” (Advisor: R.D. Deanin).
- PL-9** **Stephen C. Witkus**, “Formulations and Selection of HSG (High Specific Gravity) Materials for Mechanical Properties, Processing and Plateability, and Performance Criteria” (Advisor: R.G. Stacer).
- PL-10** **Hanchinamani Virupaxappa**, “Novel Additives for Conductive Epoxy Adhesive” (Advisor: S.B. Driscoll).
- PL-11** **Mohit M. Malkani**, “Thermoformability of Elastomeric Sheets Produced by Direct Extrusion” (Advisor: J.L. Mead).

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- PL-12** **Christie M. Johnson**, “Metallocene Catalyst Patent Trends” (Advisor: S.J. Grossman).
- PL-13** **Jeevan Prasannakumar**, “The Effect of Processing Conditions on the Appearance of Flow Lines in Injection Molded Articles Incorporating Pearlescent Pigments” (Advisor: R.E. Nunn).
- PL-14** **Robert J. Reeder**, “Evaluation of Injection Mold Cavity Pressure as an External Indicator of Gate Seal in the Injection Molding Process” (Advisor: R.E. Nunn).
- PL-15** **Neelesh S. Jain**, “Flow Instabilities in End-Gated Injection Molds” (Advisor: C. Barry).
- PL-16** **Chavinka J. Sumanatilleke**, “Evaluation of Liquid Crystal Polymers for Electronic Connector Applications” (Advisor: S.B. Driscoll).
- PL-17** **John Dell’Arciprete**, “Cavity Pressure Studies for Stereolithography Produced Tooling” (Advisor: S.P. McCarthy).
- PL-18** **Malar R. Shetty**, “Design and Study of an Extrusion-Compression Processing Method Capable of Molding Long-Glass-Fiber-Reinforced Polypropylene” (Advisor: S.P. McCarthy).
- PL-19** **Jill A. McRobbie**, “A Study of Polyolefin Elastomer Modification of Natural Rubber Adhesives for Pressure Sensitive Adhesive Applications” (Advisor: S.A. Orroth).
- PL-20** **Luca Saggese**, “A Study on the Effects of Polyamide-6 Grade, Compatibilizer Type, Filler Type and processing Conditions on the Properties of TPO/ Polyamide-6 Blends” (Advisor: C. Barry).
- PL-21** **Ravi K. Tulsani**, “Blending of High Density Polyethylene and Ethylene Propylene Rubber” (Advisor: R.D. Deanin).
- PL-22** **William P. Landsman**, “Flame Retardant Additives for Polyethylene Terephthalate” (Advisor: R.A. Malloy).
- PL-23** **Stephen R. Aste**, “The Effect of Mucell® Technology on Four Reinforced Thermoplastics” (Advisor: S.B. Driscoll).
- PL-24** **Bharat D. Odhrani**, “Impact Modification of Filled Recycled Bottle Grade PET” (Advisor: R. A. Malloy).
- PL-25** **Neeru M. Chaudhari**, “Extended Thermal Stability of PVC” (Advisor: S. B. Driscoll).
- PL-26** **Chirag B. Patel**, “Recent Developments in Polyvinyl Chloride” (Advisor: R. D. Deanin).
- PL-27** **Viral Shah**, “Developing Compounding Conditions for Polymeric Microsphere Foam Concentrates” (Advisor: S.A. Orroth).
- PL-28** **Bhavin C. Shah**, “Evaluation of Surface Defects Using Polymer Processing Additives/Aids in a Capillary Rheometer and in Flat Film Extrusion” (Advisor: S.A. Orroth).
- PL-29** **Santosh A. Bhagat**, “Optimization of Low Density Foam Extrudates via Single Screw Extrusion Using Physical and Chemical Blowing Agents” (Advisor: N.R. Schott).

2001 (cont.)

PL-34 Amit Dani, “Impact Modification of Automotive Propylene with Metallocene Plastomers” (Advisor: S.B.Driscoll).

2002

- PL-1 Junke Xu**, “Shear Rheological Properties and Extrusion of Polystyrene/Low-Density Polyethylene Blends” (Advisor: J. C. Huang).
- PL-2 Edward J. Henderson III**, “A Study of the Effect of Processing on Properties of Polyolefin Sheetting” (Advisor: S. B. Driscoll).
- PL-3 Julio Anchiraco**, “Marketability of commingled Recyclates: HDPL/Reclaimed PET” (Advisor: S.B. Driscoll).
- PL-4 Amichai Vardi**, “Process and Feature Oriented Product Design for Injection Molding” (Advisor: R.A. Malloy).
- PL-5 David Stockbower**, “Validation of a 3D Moldflow Cooling Analysis for Rapid Tooling Inserts” (Advisors: R.A. Malloy/S.P. McCarthy).
- PL-6 Brendan J. Cahill**, “Effects of Process Conditions on In-Mold Film Decorating” (Advisors: R.A. Malloy and D.O. Kazmer).
- PL-7 Hideo Yanagi**, “CAE Investigations of Thermoforming Process and Its Experimental Validations” (Advisor: F.S. Lai).
- PL-8 Rohit Joshi**, “Scaffolds for Bone Tissue Engineering” (Advisor: A.M. Crugnola).
- PL-9 Ali Ashter**, “Elastomeric Nanocomposites: Quantifying the Effects of Modified Montmorillonite Clays on Styrene-Ethylene-Butadiene-Styrene (SEBS)” (Advisor: C.M. Barry).
- PL-10 Wen Der Wang**, “Improvements in the Design of the Cool-Tip in a Portable Gas Curler” (Advisor: F.S. Lai).
- PL-11 Sumit Mathur**, “Nylon 66 - Maleated EPDM Polyblends” (Advisor: R.D. Deanin).
- PL-12 Birju Sheth**, “Evaluation of a New Cavity-Pressure-Based Controller for Injection Molding” (Advisor: S.B. Driscoll).
- PL-13 Amit Sanghvi**, “Analysis of Metallocene and Ziegler-Natta Polypropylene Blends” (Advisor: S.B. Driscoll).
- PL-14 Nirav Patel**, “The Effects of Process Conditions on the Properties of Injection Molded Liquid Silicone Rubber” (Advisor: C.M. Barry).
- PL-15 Viraj K. Shah**, “Development of a New Generation Polyurethane Polishing Pad Used in Chemical Mechanical Planarization of Microelectronic Materials” (Advisor: S.A. Orroth/J.L. Mead).
- PL-16 Sushil Raghupathy**, “Hermetic Seal Testing and Weld Strength Determination of Plastics Assembled by Kinetic Welding” (Advisor: S.P. McCarthy).

2002 (cont).

- PL-17** **Shawn M. McCarthy**, “The Development of Thermojet Rapid Tooling, a New Rapid Tooling Technology” (Advisor: S.P. McCarthy).
- PL-18** **Anthony Filip**, “A Reprocessing Study for Reground Painted Thermoplastic Olefin Parts” (Advisor: S.B. Driscoll).
- PL-19** **Ketan K. Maniar**, “A Literature Survey on Nanocomposites” (Advisor: S.B. Driscoll).
- PL-20** **Sushant Muchhala**, “Effect of Wall Thickness on Impact Resistance” (Advisor: S.B. Driscoll).
- PL-21** **Norman D. Staller**, “An Economic Analysis of Integral Fastener Design. A History of Snaps at Polaroid” (Advisor: S.P. Petrie).
- PL-22** **Swapnil Chandak**, “Comparative Properties of Flame Retarded Olefinic Wire and Cable Compounds” (Advisor: S.B. Driscoll).
- PL-23** **Michael G. Cunningham**, “An Analysis and Comparison of Family Mold Optimization for a Four Piece Assembly Through Simulation” (Advisor: R.A. Malloy).
- PL-24** **Annapoorna Rajan**, “Correlation of Machine (Hydraulic) Pressure and Predicted Melt Pressure in Injection Molding” (Advisor: C.M. Barry).
- PL-25** **Ryan Case**, “Plastics Merges and Acquisitions: An Analysis” (Advisor: S.B. Driscoll).
- PL-26** **Sumit Malik**, “Selected Properties of Transparent Thermoplastic Alloys” (Advisor: S.B. Driscoll).
- PL-27** **Nilesh J. Gogri**, “ABS as Compatibilizer for SAN/TPE Polyblends” (Advisor: R.D. Deanin).
- PL-28** **Nikhil R. Jain**, “Effect of Compatibilizer, Copolymer and Polypropylene Type on Mechanical Properties of Polypropylene/Recycled EPDM Blend” (Advisor: J.L. Mead).
- PL-29** **John E. Brunelle**, “The Investigation of Osteoconduction and In-Vitro Degradation Characteristics in Synthetic Absorbable Biomaterials and/or Their Ceramic Composites” (Advisor: A.M. Crugnola).

2003

- PL-1** **Damon Grabiec**, “The Development of a Novel Polypropylene Nucleating Agent” (Advisor: S.B. Driscoll).
- PL-2** **Jaykant R. Desai**, “Solvent Welding of ABS and HIPS: A Case Study in Methylene Chloride Substitution” (Advisor: R.G. Stacer).
- PL-3** **Chris Willis**, “Bonding Glass to Metal with Plastics for Ultra Stability (Advisor: S.P. Petrie).
- PL-4** **Ying-Po Chu**, “Epoxy Resin Systems for Light Emitting Diode” (Advisor: J.C. Huang).
- PL-5** **Satish Sharma**, “Evaluating Factors Affecting Shrinkage Predictions” (Advisor: S.B. Driscoll).
- PL-6** **Daniel Cecere**, “Rapid Tooling for Optical Molding Utilizing Cast ITTM 2000 Aluminum Epoxy Alloy” (Advisor: S.P. McCarthy).

2003 (cont.)

- PL-7** **Pranav M. Bhatt**, “Effects of Molding Conditions on the Quality of Electroplatable >Polycarbonate + ABS< Parts” (Advisor: C.M. Barry).
- PL-8** **Christopher Thellen**, “Investigation of the Processing and Characterization of Blown film Nanocomposites Consisting of Polylactic Acid and Organically Modified Montmorillonite Clay” (Advisor: C.M. Barry).
- PL-9** **Xin Liu**, “Photochemical Dissociation of P-Nitrobenzyl A,10- Dimethoxyanthracene 2-Sulfonate Films and Photoemission Studies of Dye-Sensitized Titanium Dioxide Films” (Advisor: J. Whitten).
- PL-10** **Randall Kezar**, “Mixed-Mode Dynamic Stress-Strain Characterization of Elastomeric Bushing Materials” (Advisor: J.L. Mead).
- PL-11** **Raymond J. Lareau**, “Process and Part Optimization of Poly(ether) Block Amide 630 Microbore Tubing” (Advisor: S.B. Driscoll).
- PL-12** **Andrew Collins**, “Corrosion Inhibition for an Aluminum Substrate Bonded with an Electrically Conductive Adhesive” (Advisor: R.D. Deanin).
- PL-13** **James J. Henry**, “A Study of the Effects of Select Processing + Material Variables on Jacket Shrinkage in a PVDF-HPF Tube-On Extrusion Process” (Advisor: N.R. Schott).
- PL-14** **Stefan Eimeke**, “Moisture Sensitivity of Styrenic Nylon Blends” (Advisor: S.B. Driscoll).
- PL-15** **Manoj V. Lalwani**, “A Residence Time Distribution Study for Purging in Injection Molding” (Advisor: N.R. Schott).
- PL-16** **Yash Dave**, “Dynamic Braking of a Melt Pump for Improved Extrusion Consistency” (Advisor: D.O. Kazmer).
- PL-17** **Saurabh Barjatiya**, “Testing Polymeric Alloys for Decorative Adhesive Properties” (Advisor: S.B. Driscoll).
- PL-18** **Purushottam Patil**, “Study of Environmental Effects on Epoxy Adhesives” (Advisor: S.B. Driscoll).
- PL-19** **Siddhartha Desai**, “Validation of Jetting Using Simulation” (Advisor: C.M. Barry).
- PL-20** **Neha Mehta**, “Validation of Flow Simulators of Micromolded Parts” (Advisor: C.M. Barry).
- PL-21** **Stacey L. Russell**, “An In-Vitro Study of the Elastic Property Loss of Poly (L-Lactic Acid), PLLA, Filaments Undergoing Hydrolysis in Tissue Engineering Applications” (Advisors: S.P. McCarthy/A.M. Crugnola).
- PL-22** **Jesse J. Kleczka**, “Effect of Nanofiller Morphology and Dispersion Techniques on Nanocomposite Mechanical Properties” (Advisor: J.L. Mead).
- PL-23** **Nirmal Doshi**, “Concept Design of Platenless Molding Machine” (Advisor: D.O. Kazmer).
- PL-24** **Pankaj Sarada**, “Effect of Blown Film Processing Parameters on Sharkskin Melt Fracture of Linear Low Density Polyethylene” (Advisors: S.A. Orroth/N.R. Schott).

2003 (cont.)

- PL-25 Pawan Tulsiani**, “Multilayer Co-Extrusion of Biodegradable Thermoplastics to Study the Effect of Interfacial Slip at Polymer Walls” (Advisor: S.P. McCarthy).
- PL-26 Nainesh Amin**, “Evaluation and Comparison of High Performance Engineering Thermoplastics for Electronic Connectors” (Advisor: S.B. Driscoll).
- PL-27 Gautam Balasubrahmanyam**, “Active Thermal Control of Melt Flow in Nozzles” (Advisor: D.O. Kazmer).
- PL-28 Danielle L. Froio**, “Effect of Chemical Cross-Linking on Polyolefin Syntactic Foam Extrudate For Cable Jacketing” (Advisors: S.A. Orroth/N.R. Schott).
- PL-29 Mihir Jariwala**, “Comparison of Predicted and Actual Shrinkage for Short-Fiber Reinforced Materials” (Advisor: C.M. Barry).
- PL-30 Rohan Dave**, “Effect of Gate Designs when Molding Thermoplastic Elastomers” (Advisor: C.M. Barry).
- PL-31 Theresa M. Richards**, “Identification of Plastic Materials That Have Lost Commercial Growth/Importance” (Advisor: S.J. Grossman).
- PL-32 Monticha Darncholvichit**, “Haze Band Formulation and Morphological Composition in blown Film Extrusion” (Advisors: S.A. Orroth/N.R. Schott).
- PL-33 Chetan Nirkhe**, “Composition of Approaches for Optimizing Molding Parameters” (Advisor: C.M. Barry).
- PL-34 Hetal Parekh**, “Development of a Transparent Flame Retardant Thermoplastic Elastomer” (Advisor: S.P. McCarthy).
- PL-35 Saiyam Shah**, “Evaluation of Kinetic Welding Possibility with Different Boss and Pin Geometries and Determining Weld Strength” (Advisor: S.P. McCarthy).
- PL-36 Miteshkumar Patel**, “Effect of the Different Acrylonitrile Content on the Mechanical Properties of >PC + SAN< Blends” (Advisor: S.B. Driscoll).
- PL-37 Deepankar Ayyagari**, “A Review of Scaffolds for Bone Tissue Engineering and a Summary of UML Research” (Advisor: A.M. Crugnola).
- PL-38 Qin Li**, “The Effect of Glass Fiber on Kinetic Welding of Polypropylene” (Advisor: S.P. McCarthy).
- PL-39 Tapan Mistry**, “Rheological Behavior of an Impact modified Styrene Based Engineering Alloy” (Advisor: S.B. Driscoll).
- PL-40 Jaivin Patel**, “The Development of a Highly Conductive Thermoset Molding Compound Used as a Bi-Polar Plate in the PEM Fuel-Cells” (Advisor: S.B. Driscoll).
- PL-41 Kaushik A. Manek**, “Prediction of Production Yields in Injection Molding” (Advisor: D.O. Kazmer).

2003 (cont.)

- PL-42** **Ashutosh Patel**, “Comparative Properties of Engineering Thermoplastics at Low Filler Loadings” (Advisor: S.B. Driscoll).
- PL-43** **Akash Tulsian**, “Investigation of Plug-Assist Thermoforming of Polypropylene” (Advisor: S.A. Orroth).
- PL-44** **Patrick Brannon**, “A Study of Failure Prediction in Polypropylene Living Hinges” (Advisor: C.M. Barry).
- PL-45** **Matthew J. Jaworski**, “Theoretical and Experimental Comparison of Mesh Types in CAE Injection Molding Simulation Software” (Advisor: R.A. Malloy).
- PL-46** **Madan Pitchamuthu**, “Validation of Thin-Wall Injection Molding”, (Advisor: C.M. Barry).
- PL-47** **Bhavik Patel**, “Evaluation of Properties of Polyhydroxybutyrate Nanocomposite Using Melt Blending Approach” (Advisor: S.P. McCarthy).
- PL-48** **Rajkumar Vaidyanathan**, “On-Line Measurement of Dispersion in Nanocomposites” (Advisor: C.M. Barry).
- PL-49** **Raja Roslan Raja Mohamed**, “Comparison of Predicted and Measured Flow Rates in Injection Molding” (Advisor: C.M. Barry).

2004

- PL-1** **Daniel O. Lausten**, “Radiopacity of Thermoplastic Compounds Containing Radiopaque Fillers and Their Effect on Flexural and Rheological Properties” (Advisor: R.D. Deanin).
- PL-2** **William C. Martin**, “Plastic Product Design Case Study” (Advisor: R.A. Malloy).
- PL-3** **Dirk Schmiederer**, “Rheological Strategies for Efficient Purging in Injection Molding” (Advisor: N.R. Schott).
- PL-4** **Dheeraj M. Gupta**, “Design and Validation of Melt Valves in Polymer Processing” (Advisor: D.O. Kazmer).
- PL-5** **Jonathan A. Desousa**, “The Effect of Annealing Conditions on the Properties of Gel Phase Formed Modified Polytetrafluoroethylene” (Advisor: J.L. Mead).
- PL-6** **Juan Cardona**, “Short Screw Designs for the Mucell Process” (Advisor: F.S. Lai).
- PL-7** **Robert Simas, Jr.**, “The Effect of Recycle History and Processing Temperature on the Weld Line Strength of a Polypropylene Homopolymer” (Advisor: R.A. Malloy).
- PL-8** **Dwayne R. Cote**, “Effect of Electron Beam Radiation Cross-Linking on Metallocene Linear Low Density Polyethylene Foam Cable Jacket Extrudate” (Advisors: S.A.Orroth/N.R. Schott).
- PL-9** **John O’Meara**, “Molding of Polycarbonate+ABS Parts for Chrome Electroplating Effect” (Advisor: N.R. Schott).
- PL-10** **Shantanu Shivdekar**, “Process Optimization and Evaluation for Medical Device Application” (Advisor: S.B. Driscoll).

2004 (cont).

- PL-11 Dan Lewitus**, “PLA/Nanoclay Cast Film Composites Using Various Polymer-Clay Concentrates”, (Advisor: S.P. McCarthy).
- PL-12 Shripad Kangle**, “Role of Polymeric Compatibilizers on the Functional Properties of >HDPE + EVOH < Ternary Blends” (Advisor: S.B. Driscoll).
- PL-13 Amar Nilajkar**, “Development of Lubricious Compound for Biomedical Applications Using Hydrophilic Polymers” (Advisor: F.S. Lai).
- PL-14 Kevin Patenaude**, “Modeling and Process Optimization of Nano-Modified Simulant Energetic Materials” (Advisor: J.L. Mead).
- PL-15 Bhavesh Nayak**, “The Effect of High Gate Shear Rates on Injection Molding of Flame Retardant Engineering Plastics in a Hot Runner” (Advisor: N.R. Schott).
- PL-16 Nijagun Koujalagi**, “Comparative Study of Mechanical and Dynamic Mechanical Properties of Polycarbonate+Acrylonitrile-Butadiene-Styrene Blends using Dry Blending Technique” (Advisor: S.B. Driscoll).
- PL-17 Sona Eipeson**, “Gate Design Guidelines for Injection Molding of Thermoplastic Elastomers” (Advisor: C.M. Barry).
- PL-18 George Eid**, “Physical Properties of Modified Polymers”, (Advisor: S.B. Driscoll).
- PL-19 Deepthi Gopinath**, “Effect of Gate Type and Gate Dimensions on the Processability and Properties of Selected Thermoplastics” (Advisor: C.M. Barry).
- PL-20 Shubha Prasad**, “Validation of Shrinkage Predictions for Thin-Walled Injection Molded Parts” (Advisor: C.M. Barry).
- PL-21 Dhaval Parikh**, “A Study of High Temperature Structural Foams of Select Engineering Resins” (Advisor: N.R. Schott).
- PL-22 Nilay P. Shah**, “Evaluation of High Temperature Blowing Agents for Structural Foam Molding Glass-Filled Engineering Resins” (Advisor: C.M. Barry).
- PL-23 Anait Altunian**, “Recycled Polyethylene Terephthalate (RPET) Manufacturing Using Tubes Hot Wrap Process” (Advisor: R.A. Malloy).
- PL-24 Gatha Kothari**, “A Study of Polyacetal Blends with Styrenic Polymers Using Dry Blending Technique” (Advisor: S.B. Driscoll).
- PL-25 An Nguyen**, “A Study of Nondestructive Bond Joint Testing on a Diagnostic Catheter” (Advisor: N.R. Schott).
- PL-26 Harold Fowler**, “Adhesive Properties of Syndiotactic Polystyrene and >Polyamide + Syndiotactic Polystyrene< Blends” (Advisor: S.B. Driscoll).
- PL-27 Hiren S. Chawra**, “Properties of Recycled Engineering Composites” (Advisor: S.B. Driscoll).
- PL-28 Shawn J. Peniston**, “An Investigation of Alternate Sterilization Techniques to Ethylene Oxide for Poly(L-Lactic Acid)” (Advisor: S.P. McCarthy).

2004 (cont).

- PL-29 Robert W. Montgomery III**, “An Examination of Mechanical and Electrical Properties of Carbon Containing Fiber Composites” (Advisor: A. Tayebi).
- PL-30 Mahesh V. Munavalli**, “3D Flow Analysis of a Self-Regulating Melt Pressure Valve” (Advisor: D. Kazmer).
- PL-31 Maryellen Cox**, “PVC Resin and Plasticizer Effects on Flexible PVC Compounds” (Advisor: S.B. Driscoll).
- PL-32 Hitesh Mundhra**, “Development and Validation of Process Windows for Injection Molding” (Advisor: D. Kazmer).
- PL-33 Nupur Patel**, “Validation of 3D Moldflow Filling Analysis for TPVs” (Advisor: J.L. Mead).
- PL-34 Pratik Shah**, “Mechanical Properties of Blends of Polyamide 6 Copolymers with Thermoplastic Elastomers and Plastomers” (Advisor: S.B. Driscoll).
- PL-35 Lang H. Nguyen**, “Performance of Innovative Chemically Attached Carbon black in Automotive Coating” (Advisor: R.D. Deanin).
- PL-36 Shardul Ramolia**, “Promotion of Adhesion Between Polymers and Metals” (Advisor: S.A. Orroth).

2005

- PL-1 Firmin Sillo**, “Fuzzy Logic Optimization of Injection Molding of Liquid Silicone Rubber” (Advisor: F.S. Lai).
- PL-2 Alan Gharabegian**, “Ultrasonic Welding of Polyphthalamide and the Effects of Glass Loading on the Bond Shear Strength” (Advisor: J.L. Mead).
- PL-3 Ranjan Nageri**, “Online Flow Rate Estimation in Injection Molding” (Advisor: D. Kazmer).
- PL-4 William Rousseau**, “Effect of Shear Stress and Velocity Profile Development on Hot Runner Flow Bore Wall Slip”, (Advisor: D. Kazmer).
- PL-5 Kathryn E. Garnavish**, “An Investigation into Hesitation Defects from Oscillating Flows” (Advisor: D. Kazmer).
- PL-6 James F. Buckley, Jr.**, “The Effects of Impact Modifiers with Similar Refractive Indexes on Acrylic Polymers for Optical Applications” (Advisor: R.D. Deanin).
- PL-7 Abdulhadi S. Al-Shehri**, “A Study of the Effect of Plasticizers on Compounding, Processing, Aging and Mechanical Properties of Poly(Vinyl Chloride)” (Advisor: R.D. Deanin).
- PL-8 Stephen P. Johnston**, “Development of a 1-D Flow Code for On-Line Simulation” (Advisor: D. Kazmer).
- PL-9 Ko-Ting Lin**, “Three-Dimensional Solubility Parameters of Poly(ϵ -Caprolactone)” (Advisor: J. Huang).
- PL-10 Bryan Dillon**, “A Feasibility Study of Polypropylene and Polypropylene/Polyethylene Blends for Foamed Wire and Cable Jacketing Applications” (Advisor: S.A. Orroth).

2005 (cont.)

- PL-11** **Abhinandan Jain**, “Replacement of a Sulfur Cured System with a Peroxide-Coagent Cured System in a Nitrile/PVC Rubber Based Shoe-Sole Formulation” (Advisor: J.L. Mead).
- PL-12** **Niranchana Ramachandran**, “Validation of a Program that Stimulates Flow in an Extrusion Die” (Advisor: S.A. Orroth).
- PL-13** **Venkatesh Kuppuswamy**, “Evaluation of Recycling Algorithms in Injection Molding” (Advisor: R.E. Nunn).
- PL-14** **Rahul R. Panchal**, “Analysis and Characterization of the Dynamic Behavior of a Polymer Lubricated Bearing” (Advisor: D. Kazmer).
- PL-15** **Anand Rangoli**, “Effect of Shear Rate on Purging of Hot Runners” (Advisor: N.R. Schott).
- PL-16** **Harsh D. Chheda**, “Study of the Properties of Foamed Wood Flour Filled Polypropylene and Poly(3-Hydroxybutyrate-Co-3-Hydroxyvalerate) Using Direct Extrusion” (Advisor: S.P. McCarthy).
- PL-17** **Chang Y. Jung**, “Effect of Gate Dimensions on the Physical Properties of Micro Injection Molded Poly(L-Lactic) Acid” (Advisor: A. Crugnola).
- PL-18** **Ruchi P. Karamia**, “Analysis of Plastic Part Manufacturing Processes for Low Production Quantities” (Advisor: D. Kazmer).
- PL-19** **Rishi Dua**, “Reprocessing Study on Dairy Packaging” (Advisor: R.A. Malloy).
- PL-20** **Vijay Kudchadkar**, “Design and Validation of a Self-Regulating Melt Valve for Injection Molding” (Advisor: D. Kazmer).
- PL-21** **Supravan Khongkruaphan**, “Effect of Plug Design on Thermoformed Polypropylene Parts” (Advisor: S.A. Orroth).
- PL-22** **Gregory Anderson**, “A Study of Factors Effecting Bond Strength and Optimization of Thermoplastic Elastomer Alloys for Insert Injection Molding on Polyamide 6” (Advisor: J.L. Mead).
- PL-23** **Hardik Valia**, “An Investigation into the Mechanical Properties of Commingled Wide SPEC Polyolefins” (Advisor: S.B. Driscoll).
- PL-24** **Tehila S. Efrat**, “Nano Tailoring of Polyurethane Adhesive by Polyhedral Oligomeric Silsequioxane (POSS)” (Advisor: S.P. McCarthy).

2006

- PL-1** **Thomas E. Schelling**, “A Comparison of Combustion Characteristics of Brominated Flame Retardants in a Saturated Styrenic Thermoplastic Elastomer”, (Advisor: J.L. Mead).
- PL-2** **Justin E. Angert**, “The Effect of a Progressive Grated Extrusion Mixing Head on the Melt Blending of Polymers”, (Advisor: R.A. Malloy).
- PL-3** **Rujul Majmundar**, “Effect of Lubricants on Replication of Injection Molded Nanofeatures”, (Advisor: C.M. Barry).
- PL-4** **Michelle L. Blanch**, “Template Assisted Assembly of Nanofibers”, (Advisor: J.L. Mead).

2006 (cont.)

- PL-5** **Pornchai Sangrungsri**, “Development of Polypropylene Nanocomposites for Flexible Packaging in Order to Replace a Convectional Barrier Material”, (Advisor: R.D. Deanin).
- PL-6** **Adam Nadeau**, “A Study of Direct Gas Injection Foam Extrusion of Polyolefins for a Wire Coating Application”, (Advisor: S.A. Orroth).
- PL-7** **Peter Knepper**, “Optimizing the Injection Molding Process”, (Advisor: D.O. Kazmer).
- PL-8** **James Sonntag**, “A Study of Degradation Effects on Mechanical Interlocks Using Over-Molded Biodegradable Polymers”, (Advisor: S.P. McCarthy).
- PL-9** **Amit Asthana**, “Tensile Properties of Micro and Thin Wall Parts”, (Advisor: C.M. Barry).
- PL-10** **Michael W. Alabran**, “A Study of the Effects of Various Injection Molding Processing Conditions on Nano-Scale Replication For High-Rate Manufacturing”, (Advisor: C.M. Barry).
- PL-11** **Scott Slabaugh**, “An Analysis of Density Reduction on High Carbon Fly Ash Filled Thermoplastics as a Synthetic Lightweight Aggregate”, (Advisor: R.A. Malloy).
- PL-12** **Christopher L. Severance**, “Effect of Thermal Conductive Fillers on the Physical and Thermal Properties of Silicone Elastomers”, (Advisor: J.L. Mead).
- PL-13** **Derek C. Krass**, “Investigation of the Degradation and Adhesion Properties of Over-Molded Biodegradable Polymers”, (Advisor: S.P. McCarthy).
- PL-14** **Sunil Mirji**, “Comparison of Nano and Micron Sized Radiopaque Fillers in Medical Plastics” (Advisor: S.B. Driscoll).
- PL-15** **Sean M. Dubois**, “Effect of Silane Cross-Linking on Polyolefin Syntactic Foam Extrudate for Cable Jacketing Applications”, (Advisor: N.R. Schott).
- PL-16** **Kathy Youngbear**, “Polypropylene Nanocomposites for Life Science Laboratory Disposables Applications”, (Advisor: J.L. Mead).
- PL-17** **Ana Maria Marin**, “Pressure Prediction Verification Studies Using 3D CAE Injection Molding Simulation Software”, (Advisor: R.A. Malloy).
- PL-18** **Imthiaz Ghaffar**, “A Study of the Properties of Foamed Wood Flour Filled Polypropylene and Extrudate Surface Tearing Using Direct Extrusion”, (Advisor: S.A. Orroth).
- PL-19** **Rishi Dua**, “Reprocessing Study on Dairy Packaging” (Advisor: R.A. Malloy).
- PL-20** **Ragini Ayengar Noonavanakere**, “Effect of Process Parameters on Replication of Injection Molded Nanoscale Features Using Semi-Crystalline Materials”, (Advisor: C.M. Barry).
- PL-21** **Ankit Gupta**, “Validation of Recycled Molded Engineering Resins”, (Advisor: S.B. Driscoll).
- PL-22** **Daniel Hazen**, “Multivariate Process Analysis for the Prediction of Injection Molded Part Quality”, (Advisor: D.O. Kazmer).

2007

- PL-1** **Rakshit Amba**, “Comparison of Surging in Conventional Extrusion and Gear Pump Assisted Single Screw Extrusion”, (Advisor: D.O. Kazmer).
- PL-2** **Lindsay M. Donigian**, “The Effect of Molecular Mobility on Electrical Conductivity in Polyurethane”, (Advisor: R.D. Deanin).
- PL-3** **Langang Niu**, “Injection Molding Processing Conditions and Thermal Properties of Poly(Lactic Acid)” (Advisor: N.R. Schott).
- PL-4** **Sarah L. Schirmer**, “An Investigation of Multilayer Nanocomposite Polypropylene Film for Food Packaging Applications” (Advisor: F.S. Lai).
- PL-5** **Sachin Sharma**, “Replication of Natural Porous Bodies Using Sol-Gel Chemistry for Tissue Engineering” (Advisor: D. Schmidt).
- PL-6** **Suganya Velusamy**, “Comparison of Switchover Methods in Injection Molding” (Advisor: D.O. Kazmer).
- PL-7** **Noble Francis**, “PVC/Layered Silicate Nanocomposites: Preparation, Characterization, and Properties” (Advisor: D. Schmidt).
- PL-8** **Clayton Kirschner**, “New Product Development of Bulk Fluid (Water) Storage Container” (Advisor: R.A. Malloy).
- PL-9** **David W. Lai**, “Selected Physical Properties of Laminated Thermoplastics” (Advisor: S.B. Driscoll).
- PL-10** **Mukthiar B. Bukhari**, “Heat Flux Verification and Energy Savings Using Insulating Sheets on a Hot Runner Mold” (Advisor: N.R. Schott).
- PL-11** **Poonam Borgaonkar**, “Preparation and Characterization of Porous Polymer Xerogels for Tissue Engineering Applications” (Advisor: D. Schmidt).
- PL-12** **Rao Pratish Ramesh**, “Novel Thin Film Nanocomposites as Barrier Layers in Organic Photovoltaics” (Advisor: D. Schmidt).
- PL-13** **Nivant Zombade**, “Verification of Common Mold Design Practices: Cooling Time and Runner Sizing” (Advisor: D.O. Kazmer).
- PL-14** **Smruti Patil**, “Preparation and Characterization of Environmentally Sensitive Hydrogel Based Delivery Systems” (Advisor: D. Schmidt).
- PL-15** **Sarah Westerdale**, “Multivariate Process Analysis Utilizing Six Sigma Methodologies for the Prediction of Injection Molded Part Quality” (Advisor: D.O. Kazmer).
- PL-16** **Rajkumar Thiruvengataswamy**, “Controlling Dimensions When Injection Molding Microfluidic Devices” (Advisor: C.M. Barry).
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