

CURRICULUM VITAE

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ADDRESS

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EDUCATION

- 1983:** Ph.D., Polymer Science, The University of Akron, Akron, Ohio. Dissertation: "Synthesis and Characterization of Novel Ionomers Based on Telechelic Polyisobutylenes." (Prof J.P. Kennedy).
- 1978:** B.S., Polymer Science, The University of Southern Mississippi, Hattiesburg, Mississippi.
- 1978:** B.S., Mathematics, The University of Southern Mississippi, Hattiesburg, Mississippi.

PROFESSIONAL EXPERIENCE

- 2021 to present** Professor Emeritus of Polymer Science and Engineering, The University of Southern Mississippi
- 1992 to 2021** Professor of Polymer Science and Engineering, The University of Southern Mississippi
- 1983 to 1992** Asst./Assoc. Professor of Polymer Science, The University of Southern Mississippi
- 1982 - 1983** Research Chemist, American Cyanamid Company

RESEARCH INTERESTS

Chain polymerization mechanism and kinetics: carbocationic and anionic ring-opening
Macromolecular Engineering: block copolymers, star polymers, telechelic polymers
Polyolefins, especially polyisobutylene-based polymers
Elastomeric polymers, especially butyl rubber
Polymer surface coatings; waterborne coatings
Polymer plasticization
Biomedical/biodegradable polymers

ACADEMIC ACCOMPLISHMENTS

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Refereed Journal Articles/Chapters in Books	41
Patents and Patent Applications	59
Books Edited; Conference Proceedings; Non-Refereed Journal Articles	67

HONORS AND AWARDS

University Research Council 2023 Lifetime Research Award

University Research Council 2017 Innovation Award for Academic Partnership

The University of Southern Mississippi College of Science and Technology 2017 Outstanding Faculty Research Award

University Research Council 2013 Innovation Award in Basic Research

Bennett Distinguished Professor, 2013-2015

PolyFellow, Division of Polymer Chemistry, American Chemical Society, 2010 Inductee

Southern Society for Coatings Technology Distinguished Professor, 2008-2011

Outstanding Alumni Award, Department of Polymer Science, The University of Akron, 2006.

Distinguished Service Award, American Chemical Society, Division of Polymer Chemistry, 2001.

The University of Southern Mississippi Faculty Research Award in Applied Research, 1992.

PROFESSIONAL SOCIETIES

American Chemical Society

Division of Polymer Chemistry

Division of Polymeric Materials Science & Engineering

Southern Society for Coatings Technology

Mississippi Academy of Sciences

ACTIVITIES

Co-Chair, The Waterborne Symposium, New Orleans, LA, 1985-present.

Editor or co-editor, Proceedings of The Waterborne Symposium, New Orleans, LA, 1989-present.

Program Coordinator, Annual "Reformulating to Waterborne Coatings" short course, New Orleans, LA, 1993 to present.

Instructor, "Surface Coatings for Beginning Technical Personnel," Surface Coatings for Sales Personnel, Parts I and II;" Coatings World University, 2023-present.

Co-Chair, International Symposium on Ionic Polymerization, IP'11, Akron, Ohio, July 10-15, 2011

Program Chair, 7th International Symposium on Polymers for Advanced Technologies, Ft. Lauderdale, FL, September 21-24, 2003.

Symposium Chairman, "Visions in Macromolecular Engineering – The Akron Legacy, A Symposium in Honor of Professor Joseph P. Kennedy's 75th Birthday," The University of Akron, Akron, OH, July 7, 2003.

Symposium Co-chairman (with C.L. McCormick), Polymer Science: New Century Frontiers, Symposium in honor of Prof. Roger Porter, supported by The Robert M. Hearin Foundation, The University of Southern Mississippi, Hattiesburg, MS, April 3-5, 2002.

Symposium Chairman, "4th National Graduate Research Polymer Conference, The University of Southern Mississippi, Hattiesburg, MS, June 18-21, 2000.

Editor, ACS Division of Polymer Chemistry, Polymer Preprints, 1997-2000.

Grant Proposal Review - NSF, DOD, EPA, PRF

TEACHING EXPERIENCE

(The University of Southern Mississippi)

“Organic Polymer Chemistry I,” polymer concepts, step-growth polymerization. (Graduate)

“Organic Polymer Chemistry III,” anionic and cationic polymerizations, ring-opening polymerization, polymerization via homo- and heterogeneous catalysis, and stereochemistry of polymers. (Graduate)

“Organic Polymer Chemistry I,” a study of polymer formation techniques, mechanism and kinetics of polymerization, and polymer structure-property relationships, with an emphasis on those synthesized by step-growth and ring-opening polymerizations. (Junior undergraduate)

“Organic Polymer Chemistry II,” a study of polymer formation techniques, mechanism and kinetics of polymerization, and polymer structure-property relationships, with an emphasis on those synthesized by chain-growth polymerizations. (Junior undergraduate)

“Survey of Polymer Chemistry,” a survey of polymerization chemistries, including step-growth, chain growth, and ring opening polymerizations, designed for engineering students (Junior undergraduate)

“Polymerization Kinetics,” introduction to polymerization kinetics. (Senior undergraduate and graduate)

“Research in Polymer Science,” graduate research including prospectus, execution of research plan, and thesis or dissertation.

“Surface Coatings,” a study of the physical and chemical properties of the polymers, pigments, solvents, and additives employed in surface coatings; discussion of dispersion techniques, surface preparation, paint testing, application techniques, and surface coatings analysis. (Senior undergraduate)

“Physical Chemistry of Polymers,” instrumental analysis of polymers, morphology, mechanical properties, viscoelasticity, and polymer structure-property relationships. (Senior undergraduate)

“Special Projects in Polymer Science,” individual laboratory research projects. (Senior undergraduate)

“The Polymer Industry,” an introduction to the properties of major commercial polymers, raw materials sources, and the organization of the polymer industry. (Sophomore undergraduate)

PH.D. DISSERTATIONS DIRECTED

41. Logan D. Dugas “Design and Fabrication of Single-Chain Nanoparticles, Vitrimers, Bottlebrush and Comb Polymers,” May 2023.
40. Jie (Tom) Wu “Huisgen 1,3-Dipolar Azide-Alkyne Cycloaddition “Click” Reaction in Polymer Synthesis and Curing,” May 2020.
39. Travis P. Holbrook “Adsorption of Polyisobutylene-Based Dispersants onto Carbon Black,” December 2019.
38. Corey M. Parada “A New Generation of Functional Polyisobutylenes for Advanced Applications,” December 2018.
37. R. Hunter Cooke, III “Thermosetting Polymers via Azide-Alkyne Cycloaddition,” December 2018.
36. Christopher G. Campbell “Electrophilic Cleavage and Functionalization of Isobutylene Copolymers for the Synthesis of Multifunctional Telechelic Polyisobutylene,” December 2017.
35. Bin Yang “Polyisobutylene Telechelic Prepolymers by In-Situ End-Quenching and Post-Polymerization Modifications,” May 2017.
34. Mark R. Brei “Curing of Polymer Thermosets via Click Reactions and On Demand Processes,” May 2016.
33. Todd R. Hartlage “*In Situ* Quenching and Post-Polymerization Modification of Telechelic Polyisobutylene,” December, 2013.
32. Lauren R. Kucera “Synthesis and Characterization of Polyisobutylene-block-Polyamides as Novel Thermoplastic Elastomers,” December, 2013.
31. Yaling Zhu “New Dual Initiators for Polyisobutylene-Based Block and Star Polymers,” May 2012.
30. Irene E. Gorman “A Bisphenol-A-Based Resin System that Cures via Triazole Ring Formation for Marine Composite Applications,” May 2012.
29. David L. Morgan “Investigation of Novel Quasiliving Polyisobutylene Chain-End Functionalization (Quenching) Methods,” May 2010.

28. Andrew J.D. Magenau "Polyisobutylene Chain End Transformation: Block Copolymer Synthesis and Click Chemistry Functionalizations," May 2010.
27. Scott J. Moravek "Synthesis, Propagation Kinetics, and Characterization of D,L-Lactide-Based Polyols and Polyurethanes Therefrom," December 2008.
26. Lisa K. Kemp "Synthesis and Characterization of Novel Polyisobutylene-Based Materials: Gradient Block Copolymers, In Situ Exo-Olefin Quenching, and Carboxylic Acid-Functional Telechelics," December 2007.
25. L. Krystin Breland "Polyisobutylene-Based Mikto-Arm Star Polymers Synthesized via Quasiliving Cationic Polymerization and Atom Transfer Radical Polymerization," August 2007.
24. Timothy R. Cooper "Block Copolyesters Based on Aromatic-Aliphatic Polyesters and Polylactide and Acid-Functionalized Poly(α -Hydroxy Acids) and Polyurethanes Therefrom," May 2007.
23. Adam D. Scheuer "Polyisobutylene/Polystyrene-Based Triblock and Pentablock Copolymers Synthesized Using a Combination of Quasiliving Carbocationic Polymerization and Atom Transfer Radical Polymerization," December 2004.
22. Jamie M. Messman "Synthesis and Characterization of Functionalized Poly(L-Lactide)-Based Materials and Lactone Polymerization Kinetics Using Real-Time ATR-FTIR Spectroscopy," December 2004.
21. Stacy J. Taylor "Living Cationic Polymerization of Poly(isobutylene)-Based Linear and Multiarm Star Block Copolymers Used in the Development of Water-Permeable Thermoplastic Elastomers," December 2003.
20. Quinn A. Smith "Mechanistic, Kinetic, and Energetic Study of TiCl_4 -Coinitiated Quasiliving Cationic Polymerization of Isobutylene and Styrene," August 2003.
19. Brian D. Mullen "The Synthesis and Characterization of a New Family of Cyclic Carbonate Monomers, Poly(ester-carbonates), and Tin-Based Macroinitiators," May 2003.
18. Casey D. Stokes "An Investigation Of The Production Of Low Molecular Weight Polyisobutylene For The Improvement Of Oil Dispersants," May 2003.
17. John W. Sherman "The Synthesis and Characterization of (Carboxylic Acid)-Telechelic ϵ -

Caprolactone and L,L-Lactide Based Degradable Polyester Ionomers,” December 2000.

16. Christopher L. Curry “An Investigation into the Origins and Limits of ‘Livingness’ within the Quasiliving Carbocationic Polymerization of Isobutylene,” December 2000.
15. Thomas L. Maggio “Kinetic Investigations of the BCl_3 Co-Initiated Carbocationic Polymerization of Isobutylene by Real-Time ATR-FTIR Spectroscopy,” August 1999.
14. L. Bryan Brister “Synthesis, Characterization, and Kinetic Studies of Novel Polyisobutylene-Based Block Copolymers,” August 1999.
13. Andrew B. Donnalley “Kinetic Investigations of the Controlled/Living Polymerization of Isobutylene Via *In-Situ* Real-Time ATR-FTIR Spectroscopy,” May 1999.
12. Amelia E. Taylor “Synthesis and Characterization of Biodegradable Polyesters Derived from Carboxylic Acid-Terminated Polyesters,” December 1997.
11. Daniel W. Baugh “Morphological and Physical Characterization of Poly(Styrene-*b*-Isobutylene-*b*-Styrene) Block Copolymers and Ionomers Therefrom,” August 1997.
10. Kelly A. Shoemake “Synthesis and Characterization of Polyisobutylene-Based, Multi-Arm Star-Branched Polymers Via Living Carbocationic Polymerization,” May 1997.
9. Kim R. Choate “Development and Elucidation of Homogeneous Electron Donor Induced Living Cationic Polymerizations,” May 1996.
8. Stephen C. Warren “Synthesis of Amorphous, Polyester Poly(ester-carbonate), and Polycarbonate Networks and Their Role in Bioabsorbable Composite Systems,” May 1995.
7. Mark E. Nelson “Linear and Star-Branched Block-Copolymer Telechelic Ionomers: Synthesis, Characterization, Development, and Physical Properties,” May 1995.
6. Bret J. Chisholm “Synthesis and Characterization of Novel, Well-Defined, Polyisobutylene-Based Polymers,” December 1993.

5. Jeffrey S. Wiggins "Design of Bioabsorbable, Amorphous Polymer Networks and Composites," December 1992.
4. Youngkwan Lee "Synthesis, Characterization and Physical Properties of Polyisobutylene Based Telechelic Block Copolymer Ionomers," December 1991.
3. Douglas C. Hoffman "Synthesis, Characterization and Polyurethane Network Formation of Hydroxy-Terminated Copolymers Derived via Ring-Opening Polymerization," May 1991.
2. Scott E. George "Star-Branched Block Copolymer Ionomers: Synthesis, Characterization and Properties," December 1989.
1. Leslie J. Goff "Cerium IV Grafting of Vinylidene Chloride and Vinylidene Chloride-Co-Methyl Acrylate from Poly(vinyl alcohol)," August 1988.

M.S. THESES DIRECTED

6. Morgan D. Heskett "Structure-Property Relationships of Polyisobutylene-Block-Polyamide Thermoplastic Elastomers," December 2016.
5. Conor P. Roche "Direct Chain-End Functionalization of Living Polyisobutylene with Phenoxyalkyl (Meth)acrylates," May 2013.
4. Megan A. Jennings "Study Of Trimethylene Carbonate, With An Emphasis On Polymerization Reaction Kinetics," December 2009.
3. Kelby L. Simison "*In Situ* Functionalization of Quasiliving Carbocationic Polymerizations to Yield *Exo*-Olefin-Terminated Polyisobutylene," December 2004.
2. Martin L. Carter "Prediction of the Viscosities of Phthalate and Adipate Plasticizers and Reduction of the Viscosity of Polyester Resins by Use of Liquid Crystalline End Groups," May 1992.
1. Timothy P. Hickey "Synthesis, Characterization and Degradation of Bioabsorbable Polyester Prepolymers and Poly(ester-urethane) Networks," May 1993.

INVITED PROFESSIONAL LECTURES

2025 (Lectures)

“Fundamentals of Polymer Design for Waterborne Coatings,” Reformulating to Waterborne Coatings Short Course, Astor Crowne Plaza - New Orleans French Quarter, New Orleans, LA, February 24, 2025.

2024 (Lectures)

“A Retrospective Look at Several Favorite Papers,” 2024 Storey Symposium, The University of Southern Mississippi, Hattiesburg, MS, October 18, 2024.

“Fundamentals of Color in Surface Coatings,” International Waterborne, High-Solids, and Powder Coatings Symposium, Astor Crowne Plaza - New Orleans French Quarter, New Orleans, LA, February 9, 2024.

“Fundamentals of Polymer Design for Waterborne Coatings,” Reformulating to Waterborne Coatings Short Course, Astor Crowne Plaza - New Orleans French Quarter, New Orleans, LA, February 5, 2024.

2023 (Lectures)

“Polyisobutylene-Based Polymers: From Lubricating Oil Additives to Protective Clothing,” The University of Southern Mississippi Research Day, Hattiesburg, MS, November 10, 2023.

“Sustainability and Sustainable Raw Materials,” with James Rawlins, Eastern Coatings Show, Atlantic City, NJ, May 16, 2023.

“Surface Coating Polymer Types and Properties,” Eastern Coatings Show, Atlantic City, NJ, May 16, 2023.

“Fundamentals of Polymer Design for Waterborne Coatings,” Reformulating to Waterborne Coatings Short Course, New Orleans, LA, February 13, 2023.

2022 (Lectures)

“History of the Waterborne, High-Solids, and Powder Coatings Symposium,” in the Symposium entitled “52 Years of Polymer Science and Engineering at Southern Miss,” Spring ACS Meeting, San Diego, CA, March 20, 2022.

“Alternative Polyurethane Polymers Cured Via Azide-Alkyne Cycloaddition,” Plenary Lecture, 49th Annual International Waterborne, High-Solids, and Powder Coatings Symposium,” New Orleans, LA, February 23, 2022.

“Fundamentals of Polymer Design for Waterborne Coatings,” Reformulating to Waterborne Coatings Short Course, New Orleans, LA, February 21, 2022.

2021 (Lectures)

“Fundamentals of Polymer Design for Waterborne Coatings,” Virtual Short Course held at The University of Southern Mississippi, Hattiesburg, MS, March 2, 2021.

2020 (Lectures)

“Fundamentals of Polymer Design for Waterborne Coatings,” Reformulating to Waterborne Coatings Short Course, New Orleans, LA, February 17, 2020.

“Alternative Polyurethane Coatings Cured Via Azide-Alkyne Cycloaddition,” 47th Annual International Waterborne, High-Solids, and Powder Coatings Symposium,” New Orleans, LA, February 19, 2020.

“Designing Polymers for Dispersion in Water,” 47th Annual International Waterborne, High-Solids, and Powder Coatings Symposium,” New Orleans, LA, February 20, 2020.

2019 (Lectures)

“Polyisobutylene Containing Covalently Bound Antioxidant Moieties,” University of Mississippi, Chemical Engineering Department, Oxford, MS, November 14, 2019.

“Fundamentals of Polymer Design for Waterborne Coatings,” Reformulating to Waterborne Coatings Short Course, New Orleans, LA, February 25, 2019.

“Fundamentals of Polymer Design for Waterborne Coatings,” The Waterborne Symposium, New Orleans, LA, February 28, 2019.

2018 (Lectures)

“New Polyisobutylene-Based Polymers via Constructive Degradation,” University of Mississippi, Chemical Engineering Department, Oxford, MS, November 26, 2018.

“New Polyisobutylene-Based Polymers – A Tribute to Professor Joseph P. Kennedy,” Visions in Polymer Science: A Symposium in Honor of Prof. Joseph P. Kennedy’s 90th Birthday, The University of Akron, Akron, OH, May 9, 2018.

“Fundamentals of Polymer Design for Waterborne Coatings,” Reformulating to Waterborne Coatings Short Course, New Orleans, LA, February 5, 2018.

2017 (Lectures)

“New Polyisobutylene Based Polymers,” ExxonMobil Advanced Elastomers Workshop, Clinton, NJ, December 14, 2017.

“Mechanoresponsive Behavior of Gradient Bottlebrush Polymers via Sonication,” University of Mississippi, Chemical Engineering Department, Oxford, MS, November 29, 2017.

“Functional Polyisobutylenes by Living Carbocationic Polymerization and *In-Situ* End-Quenching Methods,” Total Petrochemicals & Refining USA, Cray Valley Division, Exton, PA, February 28, 2017.

“Fundamentals of Polymer Design for Waterborne Coatings,” Reformulating to Waterborne Coatings Short Course, New Orleans, LA, February 20, 2017.

2016 (Lectures)

“PolyPIBSI Dispersants with Comb-Like Architectures,” University of Mississippi, Chemical Engineering Department, Oxford, MS, October 31, 2016.

“New Synthetic Strategies for Multifunctional Polyisobutylene: Constructive Degradation of Butyl Rubber,” University of Louisiana at Lafayette, Chemistry Department, Lafayette, LA, November 10, 2016.

“Fundamentals of Polymer Design for Waterborne Coatings,” Reformulating to Waterborne Coatings Short Course, New Orleans, LA, February 1, 2016.

2015 (Lectures)

“(Meth)Acrylate-Functional Polyisobutylene Macromonomers by Direct Chain-End Functionalization,” 14th Pacific Polymer Conference, Session on Precision Synthesis by Controlled Techniques, Kauai, HI, December 10, 2015.

“Composite Matrix Resin with a Triggered Cure via Cu(I) Catalyzed Azide-Alkyne Cycloaddition,” University of Mississippi, Chemical Engineering Department, Oxford, MS, September 4, 2015.

“Polyisobutylene-*b*-Polyamide Multi-Block Copolymer Thermoplastic Elastomers,” University of Louisiana at Lafayette, Chemistry Department, Lafayette, LA, February 24, 2015.

“Fundamentals of Polymer Design for Waterborne Coatings,” Reformulating to Waterborne Coatings Short Course, New Orleans, LA, February 9, 2015.

2014 (Lectures)

“2013-2014 Basic Research Innovation Award Address,” The University of Southern Mississippi, Hattiesburg, MS, November 21, 2014.

“Acrylate-Functional Polyisobutylene Macromonomers,” University of Louisiana at Lafayette, Chemistry Department, Lafayette, LA, November 6, 2014.

“Infrared Monitoring of Carbocationic Polymerization of Olefins,” Albemarle Corporation, Baton Rouge, LA, November 5, 2014.

“Acrylate-Functional Polyisobutylene Macromonomers,” University of Mississippi, Chemical Engineering Department, Oxford, MS, October 23, 2014.

“Infrared Monitoring of Carbocationic Polymerization of Olefins,” Keynote Speaker, Mettler Toledo Information Sharing Event, The Westin Galleria Houston, Houston, TX, July 24, 2014.

“Fundamentals of Polymer Design for Waterborne Coatings,” Reformulating to Waterborne Coatings Short Course,” New Orleans, LA, February 24, 2014.

2013 (Lectures)

“Fundamentals of Polymer Design for Waterborne Coatings,” Reformulating to Waterborne Coatings Short Course,” New Orleans, LA, February 4, 2013.

2012 (Lectures)

“Dual Initiators for Polyisobutylene-Based Block and Star Copolymers,” Symposium – Advances in Polymer Chemistry, 68th Southwest Regional Meeting of the American Chemical Society, Baton Rouge, LA, November 6, 2012.

“Fundamentals of Polymer Design for Waterborne Coatings,” Reformulating to Waterborne Coatings Short Course, New Orleans, LA, February 13, 2012.

2011 (Lectures)

“Biodegradable Polymers,” Virginia Polytechnic Institute, Blacksburg, VA, November 3, 2011.

“Functional Polyisobutylenes *via* End-Quenching of Living Cationic Polymerization,” Virginia Polytechnic Institute, Blacksburg, VA, November 3, 2011.

“Functional Polyisobutylenes *via* End-Quenching of Living Cationic Polymerization,” Department of Polymer Science Outstanding Alumni Award and Symposium Honoring Dr. Jimmy Mays, The University of Akron, Akron, OH, October 7, 2011.

“*In Situ* Quenching Methods Toward *Exo*-Olefin Terminated Polyisobutylene,” IUPAC International Symposium on Ionic Polymerization, The University of Akron, Akron, OH, July 10, 2011.

“Fundamentals of Polymer Design for Waterborne Coatings,” Reformulating to Waterborne Coatings Short Course, New Orleans, LA, February 28, 2011.

2010 (Lectures)

“Exothermic RT Curing Chemistries with High Crosslink Densities: Epoxy Resins that Cure via Triazole Ring Formation (Azido/Alkyne Reaction),” Society for Advancement of Material Process and Engineering (SAMPE) Fall Technical Conference, Salt Lake City, UT, October 14, 2010.

“Designing Polymers for Seawater Degradability,” University of Wisconsin – Stevens Point, March 3, 2010.

“Functional Polyisobutylenes via End-Quenching of Living Cationic Polymerization,” Henkel Corporation, Rocky Hill, CT, August 26, 2010.

“Designing Polymers for Seawater Degradability,” Carroll University, September 22, 2010.

“Functional Polyisobutylenes via End-Quenching of Living Cationic Polymerization,” Marquette University, Milwaukee, WI, September 24, 2010.

“Functional Polyisobutylenes via End-Quenching of Living Cationic Polymerization,” University of South Florida, Tampa, FL, October 28, 2010.

2009 (Lectures)

“Chemically Resistant Barrier Films With Enhanced Water Permeability,” 2009 International Nonwovens Technical Conference, Denver, CO, September 21-24, 2009.

“Quasiliving Cationic to RAFT Polymerization: Synthesis of a Novel Block Copolymer,” 64th ACS Northwest Regional Meeting, Pacific Lutheran University, Tacoma, WA, June 28 - July 1, 2009.

2008 (Lectures)

“Functional Polymers for Motor Oil Dispersants,” Chevron Oronite Company, Richmond, CA, December 4, 2008.

“Exothermic RT Curing Chemistries with High Crosslink Densities: Modified Epoxy Resins That Cure via Triazole Ring Formation,” ONR Program Review, Hattiesburg, MS, November 3, 2008.

2007 (Lectures)

“Quenching of Quasiliving Polyisobutylene with Hindered Bases: Kinetics and Mechanism,” IUPAC International Symposium on Ionic Polymerization 2007, Kloster Banz, Germany, September

2-7, 2007.

“Marine-Degradable Thermoplastic Polyurethanes,” Symposium on Polymer Performance, Degradation, and Materials Selection, 2007 ACS Spring Meeting, Chicago, IL, March 25-29, 2007.
2006 (Lectures)

“Triphasic Poly(acrylic acid-*b*-styrene-*b*-isobutylene-*b*-styrene-*b*-acrylic acid) TPEs with Enhanced Water Permeability,” Thermoplastic Elastomers Conference, Akron, OH, May 11, 2006.

“Functional Polymers for Motor Oil Dispersants,” Chevron Oronite Company, Richmond, CA, September 6, 2006.

“Quasiliving Cationic Polymerization of Isobutylene and Styrene: Kinetic Measurements and Mechanism,” Oak Ridge National Laboratories, Oak Ridge, TN, September 25, 2006.

“Quasiliving Cationic Polymerization of Isobutylene and Styrene: Kinetic Measurements and Mechanism,” University of Tennessee, Department of Chemistry, Knoxville, TN, September 26, 2006.

“Designing Plastics for Seawater Degradability,” Ortec, Inc., Easley, SC, September 27, 2006.

“Designing Plastics for Seawater Degradability,” Furman University, Department of Chemistry, Greenville, SC, September 27, 2006.

“Quasiliving Cationic Polymerization of Isobutylene and Styrene: Kinetics Measurements and Mechanism,” University of Akron, College of Polymer Science and Engineering, Akron, OH, October 6, 2006.

2005 (Lectures)

“Anionic Ring-Opening Polymerization of Lactones,” U.S. Surgical, New Haven, CT, April 6, 2005.

“Functional Polymers for Motor Oil Dispersants,” Chevron Chemical Co., Chevron Oronite Technologies, Richmond, CA, May 12, 2005.

“Quenching of Quasiliving Isobutylene Polymerization with Hindered Bases: Formation of Exo-Olefin-Terminated Polyisobutylene,” Pacific Polymer Conference IX, Lahaina, HI, December 12, 2005.

2004 (Lectures)

“Pentablock Copolymers From Poly(styrene-*b*-isobutylene-*b*-styrene) Macroinitiators Using ATRP,” IUPAC World Polymer Congress Macro 2004 (40th International Symposium on Macromolecules), Paris, France, July 7, 2004.

2003 (Lectures)

“Polyesters and Poly(ester-carbonates) from Metal-Catalyzed Ring-Opening Polymerization,” Chevron Chemical Co., Chevron Oronite Technologies, Richmond, CA, March 13, 2003.

“Quasiliving Cationic Polymerization of Isobutylene and Styrene: Kinetics and Energetics of TiCl_4 Ionization Equilibrium,” IUPAC International Symposium on Ionic Polymerization, Boston, MA, June 30 – July 4, 2003.

“In Situ Reaction Monitoring of Carbocationic Polymerization: A Tool for the Macromolecular Engineer,” in the symposium entitled, “Visions in Macromolecular Engineering – The Akron Legacy, A Symposium in Honor of Professor Joseph P. Kennedy’s 75th Birthday,” The University of Akron, Akron, OH, July 7, 2003.

“Mid-Infrared Monitoring of Ring-Opening Polymerization of Lactones,” Advances in Polymer Synthesis and Reaction Analysis, 7th International Symposium on Polymers for Advanced Technologies, Ft. Lauderdale, FL, September 21-24, 2003.

2001 (Lectures)

“The Origin of ‘Livingness’ in Quasiliving Carbocationic Polymerization of Isobutylene,” in the symposium entitled “Polyisobuten: Ein Klassiker zeigt, was er kann,” held at BASF AG, May 28-29, Ludwigshafen, Germany (2001).

“Synthesis and Characterization of Biodegradable Ionomers,” The Knowledge Foundation Symposium on Biopolymers, Royal Sonesta Hotel, Oct. 15, Cambridge, Massachusetts (2001).

“Synthesis and Characterization of Biodegradable Ionomers,” The University of Massachusetts, Lowell, Oct. 16, Lowell, Massachusetts (2001).

“Finely Tailored Styrene-Based Block Copolymers for Nanocomposite Fabrication,” Army Research Office Workshop: Permselective Membranes for Soldier Protection, Nov. 14, Aberdeen, MD (2001).

2000 (Lectures)

“An Investigation of the Polymerization Characteristics of Low Molecular Weight Polyisobutylene for the Enhancement of Oil Dispersants,” Chevron Chemical Co., Oronite Global Technology, January 13, Richmond, California (2000).

“Carbocationic Polymerization of Styrenic Monomers in Aqueous Media,” Hercules, Inc., Jefferson Plant, April 19, Pittsburgh, Pennsylvania (2000).

“Mid-Infrared Monitoring of Carbocationic Polymerizations,” POLY Millennial, American

Chemical Society, Division of Polymer Chemistry, December 9-13, Waikoloa, Hawaii (2000).

1999 (Lectures)

“Synthesis of Poly(Styrene-*b*-Isobutylene-*b*-Styrene) Block Copolymers Using Real-Time *In Situ* ATR-FTIR Monitoring,” Symposium on Block Copolymers: Designing Molecules for Application, Fall ACS Meeting, New Orleans, LA, August 22, 1999.

1998 (Lectures)

“Living Polymerization of Isobutylene - Kinetics, Mechanism, and Controlled Polymer Synthesis,” Exxon Chemical Baytown Polymer Center, Baytown, TX, June 10, 1998.

“High Solids Coatings,” in the short course: “Introduction to Coatings Science,” Coatings Science Short Course Series, USM, Hattiesburg, MS, March 11, 1998.

“Fundamentals of Polymer Design for Waterborne Coatings,” in the short course: “Reformulating to Waterborne Coatings,” New Orleans, LA, February, 16, 1998.

“Carbocation Rearrangement in Controlled/Living Isobutylene Polymerization,” Chevron Chemical Co., Oronite Additives Division, Richmond, CA, January 15, 1998.

1997 (Lectures)

“Carbocation Rearrangement in Controlled/Living Isobutylene Polymerization,” The University of Akron, Department of Polymer Science 30th Anniversary Celebration, Akron, OH, October 17, 1997.

“High Solids Coatings,” in the short course: “Coatings Science for Coatings Chemists,” Coatings Science Short Course Series, USM, Hattiesburg, MS, June 27, 1997.

“Fundamentals of Polymer Design for Waterborne Coatings,” in the short course: “Reformulating to Waterborne Coatings,” New Orleans, LA, February 3, 1997.

1996 (Lectures)

“Microstructural and Morphological Investigations of Polystyrene-Polyisobutylene-Polystyrene Triblock Copolymers and Triblock Copolymer Ionomers,” Department of Chemical and Biochemical Engineering, The University of Western Ontario, London, Ontario, Canada, December 12, 1996.

“Microstructural and Morphological Investigations of Polystyrene-Polyisobutylene-Polystyrene Triblock Copolymers and Triblock Copolymer Ionomers,” Bayer Rubber Co., Sarnia, Ontario, Canada, December 11, 1996.

“Active-Dormant Chain End Equilibrium in TiCl_4 -Coinitiated Living Cationic Polymerization of Isobutylene,” 1996 Southeast Regional Meeting of the American Chemical Society, Greenville, SC, November 12, 1996.

“Effect of Arm Molecular Weight on Properties of Multi-Arm Star-Branched Polyisobutylenes,” Symposium on Cationic Polymerization and Related Ionic Processes, Spring ACS Meeting, New Orleans, LA, March 26, 1996.

“Well Defined Polymers from Living Carbocationic Polymerization,” University of Mississippi, Department of Chemistry Seminar Program, University, MS, February 22, 1996.

“Fundamentals of Polymer Design for Waterborne Coatings,” in the short course: “Reformulating to Waterborne Coatings,” New Orleans, LA, February, 12, 1996.

“Macromolecular Design of New Heterogeneous Polymeric Materials,” Mississippi EPSCoR Conference, Jackson, MS, January 31, 1996.

1995 (Lectures)

“Well Defined Polymers from Living Carbocationic Polymerization,” Louisiana State University, Department of Chemistry Seminar Program, Baton Rouge, LA, November 7, 1995.

“Fundamentals of Polymer Design for Waterborne Coatings,” in the short course: “Reformulating to Waterborne Coatings,” New Orleans, LA, February, 20, 1995.

“Effect of Various Pyridine Derivatives on the Living Cationic Polymerization of Isobutylene,” ACS Applied Polymer Science Award in Honor of Professor Joseph P. Kennedy: International Symposium on Synthetic Polymer Chemistry, Spring ACS Meeting, Anaheim, CA, April 4, 1995.

“Synthesis of Biodegradable Anhydride-Containing Polyester Polymers,” Boehringer Mannheim Corporation, Indianapolis, IN, April 14, 1995.

“Well Defined Polymers and Ionomers from Living Carbocationic Polymerization,” Lubrizol Corporation, Cleveland, OH, May 18, 1995.

“Well Defined Polymers and Ionomers from Living Carbocationic Polymerization,” Kimberly-Clark Corporation, Neenah, WI, May 19, 1995.

“High Solids Coatings,” in the short course: “Coatings Science for Coatings Chemists,” Hattiesburg, MS, June 8, 1995.

“Investigation of Nickel (II) 2-Ethylhexanoate/Ethylaluminum Dichloride Catalyst System for Butyl Rubber Synthesis,” BFGoodrich, Brecksville, OH, August 29, 1995.

1994 (Lectures)

“Ionomers - Synthesis, Properties, and Applications,” Tektronix, Inc., Wilsonville, OR, October 19, 1994.

“Development of New Crosslinkable Bioabsorbable Polymers,” Boehringer Mannheim Corporation, Indianapolis, IN, October 18, 1994.

“Kinetic Study of the Living Cationic Polymerization of Isobutylene using *t*-Bu-*m*-DCC/TiCl₄/2,4-Dimethylpyridine Initiating System,” Symposium on Synthesis of Controlled Polymeric Structures Through Living Polymerization and Related Processes, ACS Fall Meeting, Washington, DC, August 21-25, 1994.

“High Solids Coatings,” in the short courses: “Modern Coatings Technology,” New Orleans, LA, February 8, 1994; “Coatings Science for Coatings Formulators,” Hattiesburg, MS, June 15, 1994; “Coatings Science for Coatings Chemists,” Hattiesburg, MS, June 9, 1994 .

1993 (Lectures)

“Development of New Crosslinkable Bioabsorbable Polymers,” Second North American Research Conference of The Science and Technology of Thermoset Materials, Hilton Head, SC, November 15, 1993.

“Synthesis and Characterization of PSt-PIB-PSt Triblock Copolymers,” International Symposium on Macromolecular Engineering organized in honor of Professor J.P. Kennedy, Akron, OH, August 27-28, 1993.

“Synthesis of Telechelic PIB Ionomers and Sulfonamides for Hot-Melt Ink Applications,” Videojet, Inc., Wood Dale, IL, August 26, 1993.

“Bioabsorbable L-Lysine-Based Poly(ester-urethane) Networks and Composites,” ConvaTec, Princeton, NJ, August 3, 1993.

“Synthesis and Characterization of PIB-Based Telechelic and Block Copolymer Ionomers,” Gordon Research Conference on Ion Containing Polymers, Plymouth State College - North Site, Plymouth, NH, July 12-16, 1993.

“Anionic, Cationic, Group Transfer, and Ring-Opening Polymerizations,” in the short course, “Introduction to Polymer Synthesis,” Nalco Chemical Co., Sugarland, TX, January 18, 19, 1993.

“New Functionalized Network Polymers,” 16th Asilomar Conf. on Polymeric Materials, Pacific Grove, CA, February 10, 1993.

“Aspects of the Synthesis of Poly(styrene-*b*-isobutylene-*b*-styrene) Block Copolymers,” Division of

Polymeric Materials Science and Engineering, ACS Spring Meeting, Denver, CO, April 1, 1993.

“High Solids Coatings,” in the short courses: “Modern Coatings Technology,” New Orleans, LA, February 23, 1993; “Formulating Coatings,” Hattiesburg, MS, June 10, 1993; “Coatings Science for Coatings Chemists,” Hattiesburg, MS, June 15, 1993 .

“Synthesis and Structural Characterization of Ionomers,” in the short course: “Ion-Containing Polymers,” New Orleans, LA, February 22, 1993.

“Physical Properties of Ion-Containing Polymers,” in the short course: “Ion-Containing Polymers,” New Orleans, LA, February 23, 1993.

1992 (Lectures)

“Star-Block Copolymer Ionomers: Synthesis, Characterization and Properties,” Seminar speaker, Department of Chemistry, University of Alabama at Birmingham, Birmingham, AL, November 13, 1992.

“Vinyl Compounding” and “Vinyl Plastics,” in the short course, “Fundamentals of PVC Plasticization and Vinyl Compounding: Emphasis on Vinyl Plastics.” Superior Manufacturing Group, Hattiesburg, MS, January 4, 1992.

“Development of Crosslinkable Polyesters for Biomedical Applications,” Mississippi EPSCoR Annual Review Conference, Jackson State University, Jackson, MS, January 27, 1992.

“Development of Crosslinkable Polyesters for Biomedical Applications,” Seminar speaker, Department of Chemistry, The University of Southern Mississippi, Hattiesburg, MS, January 31, 1992.

“Absorbable Composite Materials,” R.F. Storey, Smith & Nephew Richards Inc., Memphis, TN, February 10, 1992.

“High Solids Coatings,” in the short courses: “Modern Coatings Technology,” New Orleans, LA, February 25, 1992; “Coatings Science for Coatings Chemists,” Hattiesburg, MS, August 11, 1992; “Formulating Coatings,” Hattiesburg, MS, August 21, 1992.

“Star-Block Copolymer Ionomers: Synthesis, Characterization and Properties,” Seminar speaker, Department of Chemistry, Utah State University, Logan, UT, March 4, 1992.

“Appearance Properties of Coatings,” Southern Society for Coatings Technology 56th Annual Meeting, Orlando, FL, March 12-13, 1992.

“Development of New Crosslinkable Bioabsorbable Polymers,” Seminar speaker, Department of Chemistry, Mississippi State University, Starkville, MS, March 20, 1992.

“Star-Block Copolymer Ionomers: Synthesis Characterization and Properties,” R.F. Storey, Shell Development Company, Houston, TX, May 4, 1992.

“Star-Block Copolymer Ionomers: Synthesis Characterization and Properties,” R.F. Storey, Recent Developments in Ionomers Conference, Pacific Grove, CA, May 10-14, 1992.

“Star-Block Copolymer Ionomers: Synthesis Characterization and Properties,” R.F. Storey, B.F. Goodrich Co., Brecksville, OH, June 24, 1992.

1991 (Lectures)

“High Solids Coatings,” in the short course, “Coatings Science for Coatings Chemists,” Hattiesburg, MS, Aug. 6, 1991.

“Synthesis of Block Copolymer Ionomers Derived from Poly(Styrene-*b*-Isobutylene-*b*-Styrene),” Gordon Research Conference on Ion Containing Polymers, New London, NH, Aug. 14, 1991.

“Development of Crosslinkable Polyesters for Biomedical Applications,” Tennessee Eastman Co., Kingsport, TN, Aug. 19, 1991.

“Polyisobutylene Homopolymer and Block Copolymer Ionomers: Novel Synthesis Based on New Sulfonation Techniques and Living Cationic Polymerization,” EXXON Research and Engineering Co., Clinton, NJ, Aug. 28, 1991.

“Introduction to Polymers,” and “Introduction to PVC Plasticization,” in the short course, “Fundamentals of PVC Plasticization and Vinyl Compounding: Emphasis on Vinyl Plastics,” Superior Manufacturing Group, Hattiesburg, MS, October 26, 1991.

1990 (Lectures)

“Synthesis, Characterization, and Network Formation of Polycarbonates Carrying Terminal Hydroxyl Groups,” EXXON Research and Engineering Co., Clinton, NJ, Jan. 9, 1990.

“Living Cationic and Immortal Anionic Polymerizations,” in the short course “Advances in Polymer Synthesis,” New Orleans, LA, Feb. 20, 1990.

“Star-Branched Block Copolymer Ionomers: Synthesis, Characterization and Properties,” Shell Development Company, Westhollow Research Center, Houston, TX, March 1, 1990.

“Hydroxy-Terminated Poly(ϵ -Caprolactone-co- γ -Valerolactone) Oligomers,” with K.R. Herring and D.C. Hoffman, 6th International Symposium on Ring-Opening and Cyclopolymerization, ACS Spring Meeting, Boston, MA, April 23, 1990.

“Star-Branched Block Copolymer Ionomers: Synthesis, Characterization and Properties,” Goodyear Tire and Rubber Company, Akron, OH, May 18, 1990.

“Mississippi EPSCoR Biomaterials Component Report - USM,” with K.A. Mauritz, Mississippi EPSCoR Faculty Development Conference, Starkville, MS, June 14, 1990.

“Dilute Solution Properties of Telechelic Sulfonated Ionomers,” with S.E. George and M.E. Nelson, 33rd IUPAC Symposium on Macromolecules, Montreal, Canada, July 10, 1990.

“Overview of Living Carbocationic Polymerization,” Shell Development Co., Westhollow Research Center, Houston, TX, October 16, 1990.

“Prediction of the Viscosities of Phthalate and Adipate Plasticizers Derived from Mixtures of Primary Alcohol Isomers,” with K.A. Mauritz, EXXON Chemical Co., Baton Rouge, LA, November 30, 1990.

1989 (Lectures)

“Grafting of Vinylidene Chloride-co-Methyl Acrylate from Poly(Vinyl Alcohol),” with L.J. Goff, 16th Annual Water-Borne and Higher-Solids Coatings Symposium, New Orleans, LA, Feb, 2, 1989.

“Initiation of a Biomaterials Program: Development of New Crosslinkable Bioabsorbable Polyesters,” with K. A. Mauritz, NSF-EPSCoR Statewide Program Review, Jackson State University, June 13, 1989.

“Investigation of the Cationic Polymerization of *p*-Acetoxystyrene,” Gordon Research Conference on Polymers, New London, NH, June 26, 1989.

“Synthesis and Characterization of Star-Branched Block Copolymer Ionomers and Other Topics,” EXXON Research and Engineering Co., Clinton, NJ, June 30, 1989.

“Star-Branched Block Copolymer Ionomers: Synthesis, Characterization and Properties,” Gordon Research Conference on Ionomers, New London, NH, July 31, 1989.

“Plasticizing Efficiency and Diffusion of Selected Plasticizers in PVC,” with K.A. Mauritz, EXXON Chemical Co., Baton Rouge, LA, August 10, 1989.

“Synthesis and Characterization of Polycarbonates,” with D.C. Hoffman, Thiokol/University IR&D Review, Thiokol Management Training Center, Ogden, UT, August 15, 1989.

“Undergraduate Education Program in Polymer Science at the University of Southern Mississippi,” USM, Department of Polymer Science Industrial Advisory Committee Meeting, Hattiesburg, MS, October 6, 1989.

“Synthesis, Characterization and Network Formation of Polycarbonates Carrying Terminal Hydroxyl Groups,” Virginia Polytechnic Institute and State University, Polymer Materials and Interfaces Laboratory Seminar, Blacksburg, VA, October 25, 1989.

“The Undergraduate Program in Polymer Science at the University of Southern Mississippi,” 107th Two-Year College Chemistry Conference, Gulfport, MS, November 17, 1989.

“Initiation of a Biomaterials Program: Development of New Crosslinkable Bioabsorbable Polyesters,” NSF-EPSCoR Statewide Program Review, University of Southern Mississippi, December 5, 1989.

1988 (Lectures)

“Synthesis and Characterization of Star-Branched Block Copolymers Carrying Ion-Containing Outer Blocks and Elastomeric Inner Blocks,” Symposium on Multiphase Polymer Materials: Blends, Ionomers and Interpenetrating Networks, 3rd Chemical Congress of North America, Toronto, Canada, June 9, 1988.

“Synthesis and Characterization of Star-Branched Ionomers Composed of Sulfonated Polystyrene Outer Blocks and Elastomeric Inner Blocks,” with S. E. George, Morton Thiokol/University IR&D Review, Morton Thiokol Management Training Center, Ogden, UT, June 21, 1988.

“Synthesis and Characterization of Polycarbonates Carrying Terminal Hydroxyl Groups,” with D. C. Hoffman, Morton Thiokol/University IR&D Review, Morton Thiokol Management Training Center, Ogden, UT, June 21, 1988.

“Diffusion of Various Dialkylphthalate Plasticizers in PVC,” with K. A. Mauritz, Exxon Chemical Co., Baton Rouge, LA, August 26, 1988.

“Synthesis and Characterization of Star-Branched Block Copolymers Carrying Ion-Containing Outer Blocks and Elastomeric Inner Blocks,” B. F. Goodrich Chemical Co., Brecksville, OH, September 21, 1988.

“Synthesis and Characterization of Star-Branched Block Copolymers Carrying Ion-Containing Outer Blocks and Elastomeric Inner Blocks,” University of Akron, Polymer Science Lecture Series, Akron, OH, September 22, 1988.

1982-1987 (Lectures)

“Ionic and Stereoregular Polymerization,” in the short course “Fundamentals of Polymer Science,” New Orleans, LA, February 24, 1987.

“Curing of Epoxy Resins. II. Alkylated Aromatic Diamines,” Symposium on Chemistry, Properties and Applications of Cross-linked Polymers, ACS Spring Meeting, Denver, CO, April 9, 1987.

“Synthesis and Characterization of Polybutadiene-Based Telechelic Ionomers,” Gordon Research Conference on Ion-Containing Polymers, New London, NH, August 5, 1987.

“Introduction to Diffusion and Measurement of Diffusion,” Exxon Chemical Co., Baton Rouge, LA, January 3, 1986.

“Diffusion of Gases and Organic Vapors Through Polymers Above the Glass Transition,” Exxon Chemical Co., Baton Rouge, LA, January 17, 1986.

“Diffusion of Plasticizers: Diffusion of Large Elongated Molecules and Other Characteristic Molecular Shapes,” Exxon Chemical Co., Baton Rouge, LA, January 24, 1986.

“Synthesis and Characterization of Novel Ionomers Based on Telechelic Polyisobutylenes,” U. S. Army Missile Command, Redstone Arsenal, Huntsville, AL, February 18, 1986.

“Aromatic Diamines as Epoxy Curing Agents,” Celanese Specialty Operations, Corpus Christi, TX, August 8, 1986.

“Synthesis and Characterization of Telechelic Star Ionomers,” Morton Thiokol, Inc., Elkton, MD, November 21, 1986.

“Investigation of Various Tertiary Aromatic Amines as Cure Reaction Promoters for Unsaturated Polyester Resins,” Lucidol Div. of Pennwalt Corp., Buffalo, NY, Nov. 8, 1985.

“Mechanical Relaxation: Phenomenological and Statistical Treatments of Rubber-like Elasticity and Viscoelasticity,” Exxon Chemical Co., Baton Rouge, LA, Nov. 22, 1985.

“New Polyisobutylene-Based Model Ionomers. Part I - Synthesis and Characterization,” with J. P. Kennedy, Y. Mohajer, and G. L. Wilkes, IUPAC, Amherst, MA, 1982.

“New Polyisobutylene-Based Ionomers: Synthesis and Model Experiments,” with J. P. Kennedy, Symposium on Chemical Modification of Polymers, ACS Spring Meeting, Las Vegas, NV, March 1982.

RESEARCH GRANTS AWARDED

2020 (Grants)

“Biodegradable Polyurethanes for Tissue Engineering (Amendment No. 4),” Evonik Corporation, March 23, 2020 to April 5, 2022, **\$96,662**.

2019 (Grants)

“New Elastomers and Functional Resins Derived from Ring Opening Metathesis Polymerization (ROMP),” ExxonMobil Corporation, July 29, 2019 to June 1, 2020, **\$519,230** (with Sarah Morgan).

“Waterborne Proceeds and Expenses,” USM Research Foundation, July 1, 2019 to June 30, 2020, **\$162,181** (with James Rawlins).

“Biodegradable Polyurethanes for Tissue Engineering,” Evonik Corporation, June 3, 2019 to April 5, 2020, **\$290,000**.

“Aging and Degradation Studies of Estane 5703 and Applicability of On-Line Monitoring Approaches,” Pantex Consolidated Nuclear Security, LLC, February 25, 2019 to September 30, 2019, **\$700,000** (with Jason Azoulay).

2018 (Grants)

“Biodegradable Polyurethanes for Tissue Engineering,” Evonik Corporation, November 27, 2018 to April 5, 2020, **\$89,000**.

“Polyurethane/Polyurea Polymers Cured via Azido-Alkyne Cycloaddition,” Covestro, Sept. 1, 2018 to Aug. 31, 2019, **\$39,597**.

“Functionalization of Polyisobutylene via the Ritter Reaction,” BASF, August 1, 2018 to January 31, 2019 **\$36,083**.

“Waterborne Proceeds and Expenses,” USM Research Foundation, July 1, 2018 to June 30, 2019, **\$171,870** (with James Rawlins).

“New Barrier Polymers and Functional Resins Created via ROMP,” ExxonMobil Corporation, June 1, 2018 to May 31, 2019, **\$295,202** (with Sarah Morgan).

“New Elastomers and Functional Resins Derived from Ring Opening Metathesis Polymerization (ROMP),” ExxonMobil Corporation, June 1, 2018 to May 31, 2019, **\$644,481** (with Sarah Morgan).

“Biodegradable Polyurethanes for Tissue Engineering,” Evonik Corporation, April 5, 2018 to April 5, 2020, **\$200,000**.

2017 (Grants)

“Polyurethane/Polyurea Polymers Cured via Azido-Alkyne Cycloaddition,” Covestro, Sept. 1, 2017 to Aug. 31, 2018, **\$121,531**.

“Probing the Role of Chain Stiffness in the Sonochemistry of Polymers,” Petroleum Research Fund, July 1, 2017 to June 30, 2019, **\$162,250** (with Yoan Simon).

“Waterborne Proceeds and Expenses,” USM Research Foundation, July 1, 2017 to June 30, 2018, **\$171,870** (with James Rawlins).

“Reaction Monitoring System and Inert Atmosphere Glove Box for Precision Synthesis of Elastomeric Barrier Membranes with Moisture Permeability and CWA Deactivation Properties,” DoD DURIP, May 9, 2017 to May 8, 2018, **\$131,993**.

2016 (Grants)

“Structure, Morphology, Property Relationships in Polyisobutylene-Based Triphasic Block Copolymers Containing Hydrophilic/Functional Block Elements,” Army Research Office, February 15, 2016 to September 30, 2017, **\$130,000**.

“Functional Polymers for Motor Oil Dispersants,” Chevron Oronite Corporation, June 1, 2016 to May 31, 2017, **\$205,687**.

“Additive Manufacturing of Conductive Polymers,” Consolidated Nuclear Security (DOE), May 17, 2016 to September 30, 2017, **\$151,438**.

“Waterborne Proceeds and Expenses,” USM Research Foundation, July 1, 2016 to June 30, 2017, **\$175,827**.

“Polyurethane/Polyurea Polymers Cured via Azido-Alkyne Cycloaddition,” Covestro, Sept. 1, 2016 to Aug. 31, 2017, **\$110,013**.

2015 (Grants)

“Functional Polymers for Motor Oil Dispersants,” Chevron Oronite Corporation, June 1, 2015 to May 31, 2016, **\$205,710**.

“Waterborne Proceeds and Expenses,” USM Research Foundation, July 1, 2015 to June 30, 2016, **\$142,552**.

“Testing/Analysis of R45M, R45HT, and R45HT-LO Hydroxy-Terminated Polybutadienes for U.S. Army Aviation and Missile, Research, Development and Engineering Center (AMRDEC) at Redstone Arsenal,” Department of Defense, Army Research Office, June 1, 2015 to August 31,

2016, **\$60,363**

“Investigation of Ring-Opening Polymerization of 5,6-Dihydro-4-methyl-2H-pyran-2-one,” National Science Foundation, July 1, 2015 to June 30, 2016, **\$39,986**.

2014 (Grants)

“Functional Polymers for Motor Oil Dispersants,” Chevron Oronite Corporation, June 1, 2014 to May 31, 2015, **\$206,669**.

“Waterborne Proceeds and Expenses,” USM Research Foundation, September 1, 2014 to June 30, 2015, **\$82,800**.

“Eastman Chemical Company Scholarships,” Eastman Chemical Company, May 1, 2014 to May 31, 2015, **\$2,000**.

“Adhesion Promotion for Low T_g Aircraft Sealants,” Boeing Corporation, April 26, 2014 to April 25, 2015, **\$200,000** (with Derek Patton).

“Sidney Lauren Memorial Scholarship,” Coatings Industry Education Fund, **\$3,000**.

2013 (Grants)

“CIEF Undergraduate Scholarships,” Coatings Industry Education Fund, February 6, 2013 to August 31, 2014, **\$2,500**.

“Adhesion Promotion for Low T_g Aircraft Sealants,” Boeing Corporation, April 26, 2013 to April 25, 2014, **\$200,000** (with Derek Patton).

“Eastman Chemical Company Scholarships,” Eastman Chemical Company, May 1, 2013 to May 31, 2014, **\$2,000**.

“Waterborne Proceeds and Expenses,” USM Research Foundation, September 1, 2013 to August 31, 2014, **\$107,200**.

“Development of Epoxy-Telechelic Polyisobutylene Prepolymers,” Henkel Corporation, December 2, 2013 to December 1, 2015, **\$226,383**.

2012 (Grants)

“Functional Polymers for Motor Oil Dispersants,” Chevron Oronite Company, June 1, 2012 to May 31, 2014, **\$383,224**.

“Houston Society for Coatings Technology Gary Phillips Memorial Scholarship in Polymer Science,” May 19, 2012 to June 30, 2014, **\$10,000**.

“Development of Polyisobutylene Prepolymers,” Henkel Corporation, June 1, 2012 to August 21, 2013, **\$44,011**.

“CIEF Undergraduate Scholarships,” Coatings Industry Education Fund, September 1, 2012 to August 31, 2013, **\$30,000**.

“Cure-On-Demand Aircraft Sealants,” Boeing Corporation, October 29, 2012 to February 28, 2013, **\$85,000** (with Derek Patton).

2011 (Grants)

“Development of Polyisobutylene Prepolymers,” Henkel Corporation, August 22, 2011 to August 21, 2013, **\$204,928**.

“Efficient Sealants: Cure-on-Demand Chemistry Development,” Boeing Corporation, May 16 to September 15, 2011, **\$35,093** (with Derek Patton).

“Travel Support for Younger Scientists to Participate in the International Symposium on Ionic Polymerization IP '11, July 10-15, 2011, in Akron, OH,” National Science Foundation, February 1, 2011 to January 31, 2012, **\$4,000**.

“Functional Polymers for Motor Oil Dispersants,” Chevron Oronite Company, June 1, 2011 to May 31, 2012, **\$163,356**.

“Maleic Anhydride Modification of Ethylene/Propylene Rubbers by Reactive Extrusion,” Chevron Oronite Company, June 1, 2011 to May 31, 2012, **\$83,183** (with Jeffrey Wiggins).

“Very High Performance High Nitrogen Energetic Ingredients and Energetic Polymers for Structural Components,” Department of Defense, Office of Naval Research, October 1, 2007 to September 30, 2011, **\$103,604** (addition).

“CIEF Undergraduate Scholarships,” Coatings Industry Education Fund, September 1, 2011 to August 31, 2012, **\$15,000**.

2010 (Grants)

“Very High Performance High Nitrogen Energetic Ingredients and Energetic Polymers for Structural Components,” Office of Naval Research, October 1, 2007 to September 30, 2011, **\$177,132** (addition).

“Maleic Anhydride Modification of Ethylene/Propylene Rubbers by Reactive Extrusion,” Chevron Oronite Technology, June 1, 2009 to May 31, 2011, **\$36,235** (addition).

“Composite Materials Research and Development,” Office of Naval Research, October 1, 2010 to September 30, 2013, **\$535,339**.

2009 (Grants)

“Exothermic RT Curing Chemistries with High Crosslink Densities: Epoxy Resins that Cure via Triazole Ring Formation (Azido/alkyne Reaction),” Office of Naval Research, October 1, 2009 to September 30, 2011, **\$209,990**.

“Alternate Fuel Cell Membranes for Energy Independence,” Department of Energy, June 1, 2008 to February 29, 2012, **\$951,500** (with Ken Mauritz, addition).

“Improved Polyisobutylenes for Motor Oil Dispersants – Functional Polymers,” Chevron Oronite Technology, June 1, 2009 to May 31, 2012, **\$282,343**.

“Biodegradable Casings for Pyrotechnic Simulators, Signals and Flares,” ARDEC – Picatinny Arsenal, May 12, 2009 to May 11, 2010, **\$137,953** (with Jeffrey Wiggins).

“CIEF Undergraduate Scholarships,” Coatings Industry Education Fund, September 1, 1998 to January 1, 2050, **\$15,000** (addition).

2008 (Grants)

“Exothermic RT Curing Chemistries with High Crosslink Densities: Epoxy Resins that Cure via Triazole Ring Formation (Azido/alkyne Reaction),” Office of Naval Research, October 1, 2008 to September 30, 2009, **\$217,991**.

“Very High Performance High Nitrogen Energetic Ingredients and Energetic Polymers for Structural Components,” Office of Naval Research, October 1, 2007 to September 30, 2011, **\$296,396** (addition).

“Improved Membrane Materials for Fuel Cell Applications,” Department of Energy, June 1, 2008 to February 29, 2012, **\$984,000** (with Ken Mauritz).

“CIEF Undergraduate Scholarships,” Federation of Societies for Coatings Technology, Coatings Industry Education Fund, September 1, 1998 to January 1, 2050, **\$15,000** (addition).

“Troy Chemical Fellowship,” Troy Chemical Company, January 31, 2008 (open), **\$1,000**.

2007 (Grants)

“Exothermic Room Temperature Curing Chemistries with High Crosslink Densities: Epoxy Resins that Cure via Triazole Ring Formation,” Office of Naval Research, October 1, 2007 to September 30, 2008, **\$220,460**.

“Very High Performance High Nitrogen Energetic Ingredients and Energetic Polymers for Structural Components,” Office of Naval Research, October 1, 2007 to September 30, 2008, **\$71,728**.

“Improved Polyisobutylenes for Motor Oil Dispersions – Functional Polymers,” Chevron Oronite Technology, June 1, 2007 to May 31, 2009, **\$376,787**.

“SBIR Phase 1: Innovative Polymer System for Drug Eluting Coronary Stents,” National Science Foundation, July 1, 2007 to December 31, 2007, **\$19,377**.

“Troy Chemical Fellowship,” Troy Chemical Company, February 15, 2007 (open), **\$1,000**.

“CIEF Scholarship,” Federation of Societies for Coatings Technology, Coatings Industry Education Fund, January 15, 2007 (open), **\$8,500**.

2006 (Grants)

“CIEF Scholarship,” Federation of Societies for Coatings Technology, Coatings Industry Education Fund, January 12, 2006 (open), **\$6,000**.

“Trigg Scholarship Fund,” Coatings Industry Education Fund, January 12, 2006 (open), **\$2,500**.

“Functional Polymers for Motor Oil Dispersants,” Chevron Oronite Technology, March 1, 2006 to February 29, 2008, **\$200,802**.

“Biodegradable Polyester Polyurethanes,” Naval Sea Systems Command, July 1, 2006 to June 30, 2007, **\$155,500**.

2005 (Grants)

“CIEF Scholarship,” Federation of Societies for Coatings Technology, Coatings Industry Education Fund, January 20, 2005 (open), **\$10,500**.

“Functional Polymers for Motor Oil Dispersants,” Chevron Oronite Technology, September 1, 2005 to February 28, 2006, **\$42,000**.

“Coatings and Biodegradable and Bioabsorbable Films,” Office of Naval Research, July 1, 2005 to June 30, 2006, **\$155,500**.

“Space and Missile Defense Composite Materials Technology, “U.S. Army Space and Missile Defense, March 16, 2005 to November 30, 2005, **\$72,141**.

“Troy Chemical Fellowship,” Troy Chemical Company, March 1, 2005 (open), **\$1,000**.

2004 (Grants)

“CIEF Scholarship,” Federation of Societies for Coatings Technology, Coatings Industry Education Fund, January 5, 2004 (open), **\$8,000**.

“Vasta Scholarship,” Coatings Industry Education Fund, January 5, 2004 (open), **\$2,500**.

“Troy Chemical Fellowship,” Troy Chemical Company, March 1, 2004 (open), **\$1,000**.

“Tailoring Hydration Microstructure in [Multiphase Polymer]/Inorganic Membranes for Water and Proton Transport Applications,” Army Research Office, DEPSCoR, May 15, 2004 to May 14, 2005 (3rd year of 3-year award), **\$73,751**.

“Coatings, and Biodegradable and Bioabsorbable Films and Composites,” Office of Naval Research, July 1, 2004 to June 30, 2005 **\$182,666**.

“Research Services, “Cargill, Inc, August 1, 2004 to October 31, 2004, **\$6,966**.

“Functional Polymers for Motor Oil Dispersants,” Chevron Chemical Co., Chevron Oronite Technology, September 1, 2004 to August 31, 2005, **\$84,000**.

“Space and Missile Defense Composite Materials Technology,” U.S. Army Space and Missile Defense, September 1, 2004 to March 4, 2005, **\$70,000**.

“Research Services,” Chew Tech I/S, November, 2004, (open) **\$27,000**.

2003 (Grants)

“CIEF Scholarship,” Federation of Societies for Coatings Technology, Coatings Industry Education Fund, January 23, 2003 (open), **\$12,500**.

“Trigg Scholarship Fund,” Coatings Industry Education Fund, January 23, 2003 (open), **\$2,500**.

“Mechanical Behavior of Finely Structured Styrene-Based Block Copolymer/(Inorganic Oxide or Organically-Modified Inorganic Oxide) Nanocomposite Materials,” Army Research Office, DEPSCoR, April 16, 2003 to April 15, 2004 (3rd year of 3-year award), **\$60,352**.

“Tailoring Hydration Microstructure in [Multiphase Polymer]/Inorganic Membranes for Water and Proton Transport Applications,” Army Research Office, DEPSCoR, May 15, 2003 to May 14,

2004 (2nd year of 3-year award), **\$73,751**.

“Biodegradable Composites,” Office of Naval Research, September 30, 2003 to September 29, 2004, **\$223,000**.

“Functional Polymers for Motor Oil Dispersants,” Chevron Chemical Co., Chevron Oronite Technology, September 1, 2003 to August 31, 2004, **\$84,000**.

“Travel Funds for Invited Foreign Speakers to *PAT 2003*,” Petroleum Research Fund, August 1, 2003, to December 31, 2003, **\$3,600**.

“Support for *Biomedical/Biodegradable Polymers* Session at *PAT 2003*,” ACS Division of Polymer Chemistry, September 1, 2003, to December 31, 2003, **\$3,500**.

“Travel Assistance for Young Scientists and Faculty to the *Polymers for Advanced Electro-Optical Applications* Session at *PAT 2003*,” National Science Foundation, August 1, 2003 to December 31, 2003, **\$2,500**.

“Hydroxypropionic Polymers,” Cargill, Inc., November 1, 2003 to April 30, 2004, **\$65,550**.

“Space and Missile Defense Composite Materials Technology,” U.S. Army Space and Missile Defense, November 10, 2003 to March 4, 2004, **\$55,986**.

“Eastman Award,” Eastman Chemical Co., 2003 (open), **\$10,000**.

“Biodegradable Polymers for Chewing Gum Base,” Chew Tech, 2003 (open), **\$25,000**.

“Student Travel to International Summer Course, Ludwigshafen, Germany,” BASF, 2003 (open), **\$10,000**.

“SEC Analysis,” USDA, September 1, 2003 (open), **\$1,200**.

“Geothermal Consultants,” Geothermal Consultants, October 1, 2003 (open), **\$400**.

“Center for Response-Driven Polymeric Films (Storey Component: Seed Funding),” National Science Foundation (MRSEC), 2003, **\$25,000**.

2002 (Grants)

“Mechanical Behavior of Finely Structured Styrene-Based Block Copolymer/(Inorganic Oxide or Organically-Modified Inorganic Oxide) Nanocomposite Materials,” Army Research Office, DEPSCoR, April 16, 2002 to April 15, 2003 (2nd year of 3-year award), **\$60,351**.

“Tailoring Hydration Microstructure in [Multiphase Polymer]/Inorganic Membranes for Water

and Proton Transport Applications,” Army Research Office, DEPSCoR, May 15, 2002 to May 14, 2003 (1st year of 3-year award), **\$73,751**.

“Improved Polyisobutylenes for Motor Oil Dispersants,” Chevron Chemical Co., Chevron Oronite Technology, September 1, 2002 to August 31, 2003, **\$84,000**.

2001 (Grants)

“ChemFirst Fine Chemicals, Inc. – 2001,” ChemFirst Fine Chemicals, Inc., January 1, 2001 to December 31, 2001, **\$36,000**.

“R & D Agreement between Dandy A/S and USM,” Dandy A/S, January 1, 2001 to June 30, 2002, **\$158,738**.

“Synthesis of Alkoxy Silane Functional Oligomers,” General Electric Co., February 1, 2001 to January 31, 2002, **\$38,000**.

“Carbocationic Polymerization of Styrenic Monomers in Aqueous Media,” Hercules, Inc., March 1, 2001 to February 28, 2002, **\$81,945**.

“Troy Chemical Fellowship,” Troy Chemical Corporation, March 15, 2001 (open), **\$1,340**.

“Mechanical Behavior of Finely Structured Styrene-Based Block Copolymer/(Inorganic Oxide or Organically-Modified Inorganic Oxide) Nanocomposite Materials,” Army Research Office, DEPSCoR, April 16, 2001 to April 15, 2002 (1st year of 3-year award), **\$60,350**.

“Biodegradable Ionomers and Composites,” Office of Naval Research, September 15, 2001 to March 15, 2003, **\$250,000**.

“CIEF Scholarship,” Federation of Societies for Coatings Technology, Coatings Industry Education Fund, December 18, 2001 (open), **\$15,000**.

“Improved Polyisobutylenes for Motor Oil Dispersants,” Chevron Chemical Company, September 1, 2001 to August 31, 2002, **\$84,450**.

2000 (Grants)

“Research Project Agreement Between USM and First Chemical Corporation,” ChemFirst Fine Chemicals, Inc., January 1, 2000 to December 31, 2000, **\$39,404**.

“Interactions Between Thermoplastic Polyurethane and Poly(ethylene-co-vinyl alcohol) During Lamination and Blend Re-Processing,” Nike IHM, Inc., February 15, 2000 to February 14, 2001, **\$100,584**.

“Carbocationic Polymerization of Styrenic Monomers in Aqueous Media,” Hercules, Inc., March 1, 2000 to February 28, 2001, **\$81,878**.

“Troy Chemical Fellowship,” Troy Chemical Company, March 15, 2000, **\$1,340**.

“4th National Graduate Research Conference,” The Procter & Gamble Company, ChemFirst Fine Chemicals, Inc., H.B. Fuller Company, BASF Corporation, Ashland Incorporated, Dow Chemical Co., April 5, 2000, **\$17,420**.

“Polymer Preprints Editorship,” ACS Division of Polymer Chemistry, April 5, 2000, **\$23,842**.

“3M Award, ”3M, June 1, 2000, **\$2,890**.

“Flexible Barrier Polymers,” Nike IHM, July 1, 2000 to September 30, 2000, **\$21,886** (with R.B. Moore).

“Biodegradable Plastics for Shore-Based Disposal,” Office of Naval Research, August 1, 2000 to July 31, 2001, **\$231,636**.

“Storey Research Unrestricted Grant,” U.S. Intec, September 1, 2000, **\$2,075**.

“Flexible Barrier Nanocomposites,” Nike IHM, September 1, 2000 to August 31, 2001, **\$62,000** (with R.B. Moore).

“Improved Polyisobutylenes for Motor Oil Dispersants,” Chevron Chemical Company, September 1, 2000 to August 31, 2001, **\$84,450**.

“Synthesis and Characterization of Novel Network Forming Biodegradable Oligomers,” NSF-EPSCoR, August 1, 2000 to July 31, 2002, **\$228,000** (with K.A. Mauritz).

“CIEF Scholarship Fund,” Coatings Industry Education Fund, November 1, 2000, **\$15,000**.

1999 (Grants)

“Elastomeric Nanocomposites Based on Sol-Gel Reactions of Silicon Alkoxides in Finely Architected Block Copolymers,” Department of Defense, EPSCoR, April 15, 1999 to April 14, 2002, **\$453,655** (with K.A. Mauritz).

“Size Exclusion Chromatography System, Inert Atmosphere Glove Box, and Mechanical Testing System Used for the Synthesis and Characterization of Elastomeric Organic/Inorganic Nanocomposites,” Department of Defense, Defense University Research Instrumentation Program, March 31, 1999 to March 30, 2000, **\$231,161** (with K.A. Mauritz).

“Hercules Grant-in-Aid,” Hercules, Inc., June 1, 1999 to May 31, 2000, **\$36,250**.

“Synthesis of Biodegradable Elastomer for Gum Base,” Dansk Tyggegummi Fabrik A/S, July 1, 1999 to June 30, 2000, **\$46,876**.

“Interactions Between Thermoplastic Polyurethane and Poly(ethylene-co-vinyl alcohol) During Laminating and Blend Reprocessing,” Nike IHM, February 15, 1999 to February 14, 2000, **\$97,580**.

“Improved Polyisobutylenes for Motor Oil Dispersants,” Chevron Chemical Company, September 1, 1999 to August 31, 2000, **\$84, 500**.

“CIEF Scholarship Fund,” Coatings Industry Education Fund, September 1, 1999 to August 31, 2000, **\$12,000**.

“Trigg Scholarship Fund,” Coatings Industry Education Fund, September 1, 1999 to August 31, 2000, **\$2,500**.

“First Chemical Group - Polymer Applications Development,” First Chemical Corporation, January 1 to December 31, 1999, **\$36,922**.

1998 (Grants)

“First Chemical Group - Polymer Applications Development,” First Chemical Corporation, January 1 to December 31, 1998, **\$31,736**.

“Daychem Laboratories,” U.S. Intec, Inc., February 1, 1998, to January 31, 1999, **\$3,117**.

“Polymer Preprints Editorship,” Polymer Division of American Chemical Society, April 1, 1998, to March 31, 1999, **\$6,216**.

“Research Agreement between USM and Chevron Chemical Company, ” Chevron Chemical Company, September 1, 1998 to August 31, 1999, **\$84, 050**.

“Gulf States Paint Testing,” June 1, 1998 to May 31, 1999, **\$5,437**.

“Dandy Project,” Dansk Tyggegummi Fabrik A/S, October 7, 1998 to January 6, 1999, **\$7,480**.

“Fire Retardant Clay Nanocomposite Resins,” September 30, 1998 to September 29, 1999, **\$76,913** (with R.B. Moore).

“GAF Testing, ” September 1, 1998 to August 31, 1999, **\$1,813**.

“CIEF Scholarship Fund,” Coatings Industry Education Fund, September 1, 1998 to August 31, 1999, **\$10,000**.

“Vasta Scholarship,” Coatings Industry Education Fund, September 1, 1998 to August 31, 1999, **\$2,500.**

“Rubber Division Award,” November 1, 1998 to October 31, 1999, **\$725.**

“Detection of Internal and External Mold Release Agents in Thermoplastic Polyurethane: Effect on Waterborne Paint Adhesion,” Textron Automotive Interiors, January 1 to December 31, 1998, **\$2,930.**

1997 (Grants)

“Heterogeneous Polymeric Materials Research Group - Storey,” National Science Foundation (EPSCoR), August 1, 1997 to July 31, 1998, **\$81,005.**

“Heterogeneous Polymeric Materials Research Group - Master,” National Science Foundation (EPSCoR), August 1, 1997 to July 31, 1998, **\$95,710** (with R.B. Moore, K.A. Mauritz, and R.B. Pandey).

“Mississippi EPSCoR Management Council,” National Science Foundation (EPSCoR), August 1, 1997 to July 31, 1998, **\$7,816.**

“A MALDI Mass Spectrometer and Real Time Remote Probe FTIR Analyzer Used in the Development of Block Copolymer Elastomers and Elastomer/Inorganic Hybrids,” Department of Defense-Army Research Office (DURIP), March 1, 1997 to February 28, 1998, **\$184,158** (with K.A. Mauritz and R.B. Moore).

“First Chemical Group-Polymer Applications Development,” First Chemical Corporation, January 1, 1997 to December 31, 1997, **\$31,736.**

“Dow Corning Powder Coatings Project,” Dow Corning Corporation, June 11, 1997 to September 10, 1997, **\$22,553.**

“Polymer Preprints Editorship,” American Chemical Society, Division of Polymer Chemistry, September 1, 1997 to August 31, 1998, **\$2,200.**

“CIEF Scholarship Fund,” Coatings Industry Education Fund, September 1, 1997 to August 31, 1998, **\$10,000.**

“Trigg Scholarship Fund,” Coatings Industry Education Fund, September 1, 1997 to August 31, 1998, **\$2,500.**

“GKA Paint Testing,” George Kimball Atkinson, May 1, 1997 to April 30, 1998, **\$942.**

“Daychem Laboratories,” Daychem Laboratories, December 1, 1997 to November 30, 1998,

\$1,595.

1996 (Grants)

“Heterogeneous Polymeric Materials Research Group,” NSF EPSCoR, August 1, 1996 to July 31, 1997, **\$134,201** (with K.A. Mauritz, R.B. Moore, and R.B. Pandey).

“Heterogeneous Polymeric Materials Research Group - Storey,” NSF EPSCoR, August 1, 1996 to July 31, 1997, **\$90,262**.

“NSF EPSCoR Management Council,” NSF EPSCoR, August 1, 1996 to July 31, 1997, **\$25,752** (with K.M. Yarbrough).

“Elastomeric Nanocomposites Based on Sol-Gel Chemistry and Si-Organosiloxanes in Novel Star-Branched Block Copolymers and their Ionomeric Derivatives,” DEPSCoR, June 1, 1996 to May 31, 1999, **\$585,792** (with K.A. Mauritz).

“Development of New Polyisobutylene-Based Polymeric Materials Using Living Cationic Polymerization,” Shell Development Co., May 1, 1996 to April 30, 1997, **\$53,901**.

“Synthesis and Characterization of Novel Poly(ester-anhydride)s,” Boehringer Mannheim Corporation, January 1, 1996 to December 31, 1996, **\$40,442**.

“Dow Corning Project,” Dow Corning Corporation, October 1, 1996 to September 30, 1997, **\$3,200**.

“First Chemical Group - Polymer Applications Development,” First Chemical Corporation, July 1, 1996 to December 31, 1996, **\$15,868**.

1995 (Grants)

“Heterogeneous Polymeric Materials Research Group,” NSF EPSCoR, August 1, 1995 to July 31, 1996, **\$237,544** (with R.B. Moore, K.A. Mauritz, and R.B. Pandey).

“NSF EPSCoR Management Council,” NSF EPSCoR, August 1, 1995 to July 31, 1996, **\$7,078**.

“Polyisobutylene Ionomers and Functional Polymers for Phase Transfer Jet Inks,” Tektronix, Inc., August 1, 1995 to July 31, 1996, **\$48,000**.

“Development of New Polyisobutylene-Based Polymeric Materials Using Living Cationic Polymerization,” Shell Development Co., May 1, 1995 to April 30, 1996, **\$53,901**.

“First Chemical Group - Polymer Applications Development,” First Chemical Corporation, July 1, 1995 to June 30, 1996, **\$31,736**.

“Synthesis and Characterization of Novel Poly(ester-anhydride)s,” Boehringer Mannheim

Corporation, January 1, 1995 to December 31, 1995, **\$31,703**.

“Investigation of New Catalysts for Carbocationic Polymerization,” B.F. Goodrich Co., March 16, 1995 to June 15, 1995, **\$62,500**.

1994 (Grants)

“First Chemical Group - Polymer Applications Development,” First Chemical Corporation, July 1, 1994 to June 30, 1995, **\$32,362**.

“Development of New Polyisobutylene-Based Polymeric Materials Using Living Cationic Polymerization,” Shell Development Co., May 1, 1994 to April 30, 1995, **\$53,901**.

“Advanced Polymeric Materials Laboratory,” NSF EPSCoR, March 15, 1994 to March 14, 1995, **\$76,125** (with K.A. Mauritz and R.B. Moore).

“Composite Materials,” NSF EPSCoR, March 15, 1994 to March 14, 1995, **\$20,445**.

“Ionomeric Materials Laboratory,” NSF EPSCoR, March 15, 1994 to March 14, 1995, **\$345,800** (with K.A. Mauritz and R.B. Moore).

1993 (Grants)

“First Chemical Group - Polymer Applications Development,” First Chemical Corporation, August 1, 1993 to July 31, 1994, **\$32,721**.

“Advanced Polymeric Materials Laboratory,” NSF EPSCoR, March 15, 1993 to March 14, 1994, **\$105,281** (with K.A. Mauritz and R.B. Moore).

“Composite Materials,” NSF EPSCoR, March 15, 1993 to March 14, 1994, **\$19,059**.

“Barium Sulfate Pigments in Powder Coatings,” J.M. Huber Corp., April 15 to August 31, 1993, **\$12,277**.

“Investigation of Novel Thermoplastic Elastomers,” Shell Development Co., May 1, 1993 to April 30, 1994, **\$50,000**.

“Ionomers as Adjuncts for Hot-Melt Ink Binders,” Videojet Systems International, Inc., May 1, 1993 to April 30, 1994, **\$45,483**.

1992 (Grants)

“Ionomeric Materials Laboratory,” NSF EPSCoR, November 1, 1992 to October 31, 1993, **\$360,253** (with K.A. Mauritz and R.B. Moore).

“Investigation of Novel Thermoplastic Elastomers,” Shell Development Co., May 1, 1992 to April 30, 1993, **\$50,000**.

“MSE Corporation Donation,” Materials Science & Engineering Corp., June 1, 1992 to Dec. 31, 1992, **\$2,860**.

“Ionomers as Adjuncts for Hot-Melt Ink Binders,” Videojet Systems International, Inc., May 1, 1992 to April 30, 1993, **\$45,325**.

“Star-Branched Block Copolymer Ionomers for Solid Propellant Binders,” Thiokol, Inc., July 1, 1992 to Dec. 31, 1992, **\$25,000**.

“Advanced Polymeric Materials Laboratory,” NSF EPSCoR, March 15, 1992 to March 14, 1993, **\$108,522** (with K.A. Mauritz and R.B. Moore).

“Composite Materials,” NSF EPSCoR, March 15, 1992 to March 14, 1993, **\$19,437**.

1991 (Grants)

“Initiation of a Biomaterials Program: Development of New Crosslinkable Bioabsorbable Polyesters,” NSF EPSCoR, May 1, 1991 to April 30, 1992, **\$343,684** (with K.A. Mauritz).

“Investigation of Novel Thermoplastic Elastomers,” Shell Development Co., May 1, 1991 to April 30, 1992, **\$50,000**.

“Ionomers for Solid Propellant Binders,” Thiokol Corp., July 1, 1991 to June 30, 1992, **\$50,000**.

“Viscosity Prediction of Phthalate Plasticizer Mixtures,” EXXON Chemical Co., Jan. 1, 1991 to Dec. 31, 1991, **\$40,452** (with K.A. Mauritz).

“Ionomers as Adjuncts for Hot-Melt Ink Binders,” Videojet Systems International, Inc., Aug. 1, 1991 to April 30, 1992, **\$26,632**.

“Development of Plastisol Coating,” Macho Products, Inc., May 1, 1991 to July 15, 1991, **\$3,399**.

“Exxon Education Foundation,” Exxon Ed. Foundation, Nov. 1, 1991 to Oct. 31, 1992, **\$21,450**.

1990 (Grants)

“Initiation of a Biomaterials Program: Development of New Crosslinkable Bioabsorbable Polyesters,” NSF EPSCoR, May 1, 1990 to April 30, 1991, **\$345,673** (with K. A. Mauritz).

“Investigation of the Cationic Polymerization of *p*-Acetoxystyrene,” Petroleum Research Fund, June 1, 1990 to August 31, 1992, **\$57,200**.

“Viscosity Prediction of Phthalate Plasticizer Mixtures,” EXXON Chemical Co., Jan. 1, 1990 to Dec. 31, 1990, **\$50,939** (with K. A. Mauritz).

“New Polymers for Solid Propellant Binders,” Thiokol, Inc., July 1, 1990 to June 30, 1991, **\$40,004**.

“Diffusion of Exxon Plasticizers into PVC: Experimental and Predictive Model Studies,” EXXON Chemical Co., Jan. 1, 1990 to Dec. 31, 1990, **\$25,643** (with K.A. Mauritz).

“Research Experiences for Undergraduates, Supplement to NSF Grant #RII-8902064,” NSF, May 15, 1990 to August 31, 1990, **\$3,432** (with K.A. Mauritz).

1989 (Grants)

“Initiation of a Biomaterials Program: Development of New Crosslinkable Bioabsorbable Polyesters,” NSF EPSCoR, May 1, 1989 to April 30, 1990, **\$346,627** (with K. A. Mauritz).

“Prediction of the Viscosities of Phthalate Plasticizers Derived from Mixtures of Primary Alcohol Isomers,” EXXON Chemical Co., Jan. 1, 1989 to Dec. 31, 1989, **\$50,730** (with K. A. Mauritz).

“Diffusion of Alkyl Trimellitates and Adipates into PVC and Continued Development of the Mauritz/Storey Plasticizer Diffusion Model,” EXXON Chemical Co., Jan. 1, 1989 to Dec. 31, 1989, **\$50,321** (with K. A. Mauritz).

“Synthesis and Characterization of Star-Branched Elastomeric Ionomers,” Thiokol, Inc., Elkton Division, July 1, 1989 to June 30, 1990, **\$36,945**.

“Synthesis and Characterization of Polycarbonates Carrying Terminal Hydroxyl Groups,” Thiokol, Inc., Huntsville Division, July 1, 1989 to June 30, 1990, **\$32,926**.

“Coating Adhesion to Vinyl Interior Trim,” Davidson Interior Trim - TEXTRON, July 15, 1989 to October 15, 1989, **\$6,370**.

“Pigments for Fire Retardant Paints,” Sherwin-Williams Co., May 1, 1989 to August 31, 1989, **\$2,058**.

1988 (Grants)

“Refinement of the Mauritz/Storey Model of the Diffusion of High Molecular Weight Plasticizers into PVC,” EXXON Chemical Co., Jan. 1, 1988 to Dec. 31, 1988, **\$47,908** (with K.A. Mauritz).

“Synthesis and Characterization of Three-Arm Star Polybutadiene Ionomers,” Morton Thiokol, Inc., Elkton Div., Feb. 1, 1988 to Jan. 31, 1989, **\$35,000**.

“Synthesis and Characterization of Polycarbonates Carrying Terminal Hydroxyl Groups,” Morton Thiokol, Inc., Huntsville Div., July 1, 1988 to June 30, 1989, **\$33,000**.

“EXXON Chemical Co. Donation: Fluorescence Spectrometer and Supporting Equipment,” EXXON Chemical Co., July 25, 1988, **\$50,000** (with K. A. Mauritz).

“Nordson Corporation Donation,” Nordson Corporation, June 6, 1988, **\$19,000** (with S. F. Thames).

1987 (Grants)

“Evaluation and Extension of the Mauritz-Storey Model for the Diffusion of Higher Molecular Weight Plasticizers into PVC,” EXXON Chemical Co., Jan. 1, 1987 to Dec. 31, 1987, **\$45,279** (with K.A. Mauritz).

“Synthesis and Characterization of Three-Arm Star Polybutadiene Ionomers,” Morton Thiokol, Inc., Feb. 1, 1987 to Jan. 31, 1988, **\$35,000**.

“Study of Epoxy Curing Agents,” First Chemical Corp., Jan. 1, 1987 to June 30, 1987, **\$27,514**.

“Synthesis and Characterization of Polycarbonates Carrying Terminal Hydroxyl Groups,” Morton Thiokol, Inc., Huntsville Div., July 1, 1987 to June 30, 1990, **\$25,132**.

“Investigation of the Termination Mechanism in Vinylidene Chloride Free-Radical Polymerization,” Petroleum Research Fund, June 1, 1987 to May 31, 1989, **\$24,918**.

“Formulation of Flame Retardant Flat Latex Wall Paint,” Solem Industries, Inc., July 1, 1987 to August 31, 1987, **\$3,000**.

1984-1986 (Grants)

“Study of Epoxy Curing Agents,” First Chemical Corp., Jan. 1, 1986 to Dec. 31, 1986, **\$47,732**.

“Synthesis and Characterization of Three-Arm Star Polybutadiene Ionomers,” Morton Thiokol, Inc., Feb. 1, 1986 to Jan. 31, 1987, **\$35,000**.

“Vinylidene Chloride-Based Polymers for Coatings: Investigation of Initiation and Termination Mechanisms in Free-Radical Vinylidene Chloride Polymerization,” Dow Chemical Co., Jan. 1, 1986 to July 31, 1986, **\$10,000**.

“Evaluation and Extension of Free Volume-Based Theory Describing the Diffusion of Higher Molecular Weight Plasticizers into PVC,” EXXON Chemical Co., Dec. 15, 1985 to Dec. 14, 1986, **\$44,627** (with K.A. Mauritz).

“Study of Epoxy Curing Agents,” First Chemical Corp., Jan. 1, 1985 to Dec. 31, 1985, **\$38,500**.

“Vinylidene Chloride-Based Polymers for Coatings: Investigation of Initiation and Termination Mechanisms in Free-Radical Vinylidene Chloride Polymerization,” Dow Chemical Co., Jan. 1, 1985 to Dec. 31, 1985, **\$21,900**.

“Use of Transmission Electron Microscopy in the Study of Heavy-Metal Ion Clustering in Ionomers,” USM Developmental Grant, Jan. 1 1985 to Dec. 31, 1985, **\$2,000**.

“Polymer Processing Projects,” EXXON Chemical Co., Feb. 25, 1985, **\$4,000** (with K. A. Mauritz).

“Study of Factors Effecting the Dryblending Process of Poly(vinyl chloride) with Higher Molecular Weight Plasticizers,” EXXON Chemical Co., Nov. 1, 1984 to Nov. 1, 1985, **\$39,000** (with K. A. Mauritz).

“Study of Epoxy Curing Agents,” First Chemical Corp., February 1, 1984 to Dec. 31, 1984, **\$16,302**.

“Synthesis of Sulfonated Elastomeric Ionomers Using Resin-Bound Acyl Sulfates,” USM Developmental Grant, Jan.1, 1984 to Dec. 31, 1984, **\$2,600**.

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2023 (Articles)

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2022 (Articles)

182. Dugas, L.D.; Walker, W.D.; Shankar, R.; Hoppmeyer, K.S.; Thornell, T.L.; Morgan, S.E.; Storey, R.F.; Patton, D.L.; Simon, Y.C. *Macromol. Rapid Comm.* **2022**, 2200249 <https://doi.org/10.1002/marc.202200249>. “Diketoenamine-Based Vitrimers via Thiol-Ene Photopolymerization”

181. Mehringer, K.D.; Davis, B.J.; Kemp, L.K.; Ma, G.; Hunt, S.B.; Storey, R.F.; Gu, X.; Thornell, T.L.; Wedgeworth, D.N.; Simon, Y.C.; Morgan, S.E. *Macromol. Rapid. Comm.* **2022**, 2200487, <https://doi.org/10.1002/marc.202200487>. “Synthesis and Morphology of High-Molecular-Weight Polyisobutylene-Polystyrene Block Copolymers Containing Dynamic Covalent Bonds”

2021 (Articles)

180. Weller, D.W.; Halbach, R.; Rohde, B.; Kang, S.; Dwivedi, S.; Mehringer, K.D.; Shankar, R.;

Storey, R.F.; Morgan, S.E.; Zabula, A.V.; Gu, X.; López-Barrón, C.R. *ACS Appl. Polym. Mater.* **2021**, 3 (5), 2498-2506. “Long-Chain Branched Polypentenamer Rubber: Topological Impact on Tensile Properties, Chain Dynamics, and Strain-Induced Crystallization”

179. Storey, R.F. In *Macromolecular Engineering: Design, Synthesis and Application of Polymers*, Lubnin, A., Erdodi, G., Eds., Elsevier: Cambridge, MA, **2021**, pp. 69-84. “New Polyisobutylene-Based Polymers by Friedel-Crafts Alkylation”
178. Wu, J.; Cooke, R.H., III; Livingston, H.A.; Parker, G.L.; Peoples, B.C.; Ekin, A.; Storey, R.F. *Prog. Org. Coat.* **2021**, 151, 106079. doi.org/10.1016/j.porgcoat.2020.106079. “Polyurethane Coatings Cured via Azide-Alkyne Cycloaddition Using Reduced-Viscosity Poly(alkynyl carbamate) Prepolymers”
177. Cooke, R.H., III; Wu, J.; Livingston, H.A.; Parker, G.L.; Peoples, B.C.; Ekin, A.; Bushmire, A.; Storey, R.F. *Prog. Org. Coat.* **2021**, 151, 106047. doi.org/10.1016/j.porgcoat.2020.106047. “Polyurethane Polymers Cured Via Azide-Alkyne Cycloaddition”

2020 (Articles)

176. Zhang, S.; Cheng, Y.-H.; Galuska, L.; Roy, A.; Lorenz, M.; Chen, B.; Luo, S.; Li, Y.-T.; Hung, C.-C.; Qian, Z.; St. Onge, P.B.J.; Mason, G.T.; Cowen, L.; Zhou, D.; Nazarenko, S.I.; Storey, R.F.; Schroeder, B.C.; Rondeau-Gagné, S.; Chiu, Y.-C.; Gu, X. *Adv. Funct. Mater.* **2020**, 30 (27), 2000663. doi.org/10.1002/adfm.202000663. “Tacky Elastomers to Enable Tear-Resistant and Autonomous Self-Healing Semiconductor Composites”
175. Parada, C.M.; Yang, B.; Campbell, C.G.; Storey, R.F. *J. Polym. Sci., Part A: Polym. Chem.* **2020**, 58 (19), 2807-2822. doi.org/10.1002/pol.20200524. “Synthesis, Characterization, and Photopolymerization of (Meth)Acrylate-Functional Polyisobutylene Macromers Produced by Cleavage/Alkylation of Butyl Rubber”
174. Yang, B.; Storey, R.F. *React. Funct. Polym.* **2020**, 150, 104563. “Synthesis and Characterization of Polyisobutylene Telechelic Prepolymers with Epoxide Functionality”
173. Holbrook, T.P.; Storey, R.F. *J. Polym. Sci., Part A: Polym. Chem.* **2020**, 58 (2), 280-299. “Micellization and Adsorption to Carbon Black of Polyisobutylene-Based Ionic Liquids”
172. Liu, C.H.; Dugas, L.D.; Bowman, J.I.; Chidanguro, T.; Storey, R.F.; Simon, Y.C. *Polym. Chem.* **2020**, 11, 292-297. doi.org/10.1039/c9py01235d. “Forcing Single-Chain Nanoparticle Collapse through Hydrophobic Solvent Interactions in Comb Copolymers”

2019 (Articles)

171. Parada, C.M.; Parker, G.L.; Storey, R.F. *J. Polym. Sci., Part A: Polym. Chem.* **2019**, 57 (17), 1836-1846. “Polyisobutylene Containing Covalently Bound Antioxidant Moieties”

170. Holbrook, T.P.; Masson, G.M.; Storey, R.F. *J. Polym. Sci., Part A: Polym. Chem.* **2019**, *57* (15), 1682-1696. DOI: 10.1002/pola.29433. "Synthesis of Comb-Like Dispersants and A Study on the Effect of Dispersant Architecture and Carbon Black Dispersion"

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168. Campbell, C.G.; Storey, R.F. *Macromolecules* **2018**, *51* (16), 6430-6439. DOI: 10.1021/acs.macromol.8b01258. "Carbocationic Copolymerization of Isobutylene and 2,4-Dimethyl-1,3-Pentadiene"
167. Holbrook, T.P.; Masson, G.M.; Storey, R.F. *J. Polym. Sci., Part A: Polym. Chem.* **2018**, *56* (15), 1657-1675. DOI: 10.1002/pola.29046. "Synthesis, Characterization, and Evaluation of Polyisobutylene-Based Imido-Amine-Type Dispersants Containing Exclusively Non-Nucleophilic Nitrogen"
166. Parada, C.M.; Storey, R.F. *J. Polym. Sci., Part A: Polym. Chem.* **2018**, *56*, 840-852. "Functionalization of Polyisobutylene and Polyisobutylene Oligomers via the Ritter Reaction"

2017 (Articles)

165. Yang, B.; Abel, B.A.; McCormick, C.L.; Storey, R.F. *Macromolecules* **2017**, *50* (19), 7458-7467. "Synthesis of Polyisobutylene Bottlebrush Polymers via Ring-Opening Metathesis Polymerization"
164. Brei, M.R.; Donovan, B.R.; Patton, D.L.; Storey, R.F. *J. Appl. Polym. Sci.* **2017**, *134* (46), 45523. "Synthesis and Thiol-Ene Photopolymerization of (Meth)allyl-Terminated Polysulfides"
163. Campbell, C.G.; Storey, R.F. *J. Polym. Sci., Part A: Polym. Chem.* **2017**, *55* (12), 1991-1997. "Functional Polyisobutylenes via Electrophilic Cleavage/Alkylation"

2016 (Articles)

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161. Yang, B.; Parada, C.M.; Storey, R.F. *Macromolecules* **2016**, *49* (17), 6173-6185. "Synthesis, Characterization, and Photopolymerization of Polyisobutylene Phenol (Meth)Acrylate"

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