



## MARK A. BUESE, PH.D.

REGISTERED PATENT AGENT

B.A., *cum laude*  
Chemistry  
Susquehanna University

Ph.D. Chemistry  
University of Florida

### AREAS OF PRACTICE

- U.S. and International Patent Prosecution

### TECHNOLOGY AREAS

- Chemistry
- Macromolecular Science
- Materials Science
- Pharmaceuticals

### SELECTED PUBLICATIONS

- "Poly(dimethylsiloxane)-graft-oligo (hexafluoropropeneoxide) Via Ring-opening Polymerization," *ACS Symposium Series 838 Silicones and Silicone-Modified Materials*, American Chemical Society, Washington, DC 2003: Ch. 26.
- "Living Block Copolymerization of Phenylvinyl-Sulfoxides and Characterization of a Stereogradient Polymer," *Die Makromolekulare Chemie, Macromolecular Symposia, Living Polymerization*, 1995, 95, 287.
- *Silicone Networks Prepared via a Living Percolation Mechanism: Postgel Structure for Networks with a Variety of Junction Functionalities*, Journal of the American Chemical Society, 1993: V 115.
- "Size Dependent Polycondensation of  $\alpha,\omega$ -Di-Hydroxyoligo (dimethylsiloxane)," *Macromolecules* 1992: 25:4821.
- *Stereoelective Anionic Polymerization of Chiral Monomers via Interconverting Ion Pair Epimers*, Recent Advances in Anionic Polymerization, Elsevier, New York 1987:231.
- "Oligomerization of Vinyl Monomers. 17. Stereoselective Methylation of 1-Lithio-1,3-bis(phenylsulfinyl) butane. Kinetic vs. Thermodynamic Control in the Formation of Diastereomeric Ion Pairs," *Journal of the American Chemical Society*, 1985, 107, 4509.

### PROFESSIONAL MEMBERSHIPS & ACTIVITIES

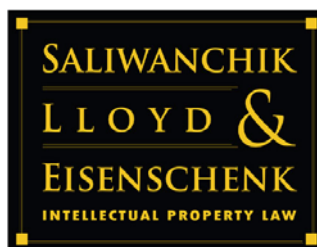
- Registered to Practice before the United States Patent and Trademark Office (USPTO)

### SELECTED PATENTS

- 6,346,553: "Alkylmethylsiloxane-dimethylsilicone polyalkylene oxide copolymers"
- 5,914,420: "Perfluorinated Organo Substituted Cyclosiloxanes and Copolymers Prepared from these Cyclosiloxanes"
- 5,347,028: "Highly Functionalized Polycyclosiloxanes and their Polymerization into Thermally Reversible Living Rubbers"
- 5,254,654: "Monodispersed Polydimethylsiloxane-alpha,omega-diol Fluid and alpha,omega-Functionalized Polydimethyl-siloxanes and Polydimethylcyclo siloxanes Prepared Therefrom"

### PRIOR PROFESSIONAL EXPERIENCE

- Senior Scientist, Clariant LSM (Florida) Inc., 1994-2005
- Assistant Professor, Temple University, 1987-1994
- Staff Scientist, General Electric Corporate Research and Development, 1984-1987
- Charge de Recherches, Institut Charles Sadron, 1982-1983



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