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Material Development Section
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Ph.D., Polymer Science, University of Akron, 2005
B.S., Chemistry, Texas State University, 1999

At Southwest Research Institute (SwRI), Dr. Rubal performs formulation, synthesis, characterization, and analysis of polymer and antimicrobial systems. His recent formulation work at SwRI has included spray drying chlorine dioxide light activated releasing additives, extrusion of antimicrobial thermoplastics, fire-resistant rubber compounding, and gas barrier lamination. Recent synthesis work has included monomer dye synthesis, free radical copolymerizations, and polyimide condensation polymerizations, and ionic liquid synthesis. Topics of interest include novel antimicrobial releasing materials, gas separation membranes, ion transport membranes, and novel energy generating/storing devices. Dr. Rubal performs work under ISO 13485 medical device development methods for the Department.

Dr. Rubal completed his postdoctoral studies at Texas State University on polyimide gas permeation membranes which included incorporation of nanocomposites and the synthesis of hyperbranched architectures.

Dr. Rubal, as a graduate student at the University of Akron, studied the structure-property relationships associated with the length of the flexible spacer group on laterally-attached side-chain liquid crystalline polymers. As an undergraduate at Texas State University, Dr. Rubal became familiar with supercritical fluids and interpenetrating networks.

PROFESSIONAL CHRONOLOGY:

Texas State University:	Postdoctoral Associate, 2005-6
Southwest Research Institute:	Research Scientist, 2006-10
	Senior Research Scientist, 2010-present.

MEMBERSHIPS: American Chemical Society (Polymer Division)