

Texas State University Seminars
Material Science, Engineering, and Commercialization
November 3, 2017

Biography – Dr. Scott Leigh

Dr. Scott Leigh is Technology Director – Americas for the Performance Products Division of Huntsman Corporation. Dr. Leigh joined Huntsman in 2006 as a Technology Manager. In this initial role, he led research efforts in polyetheramine-based chemistry for coatings, composites, polymeric dispersants, and other polymer applications. Dr. Leigh became Technology Director in 2011. As Director, he is responsible for the research, development, and innovation efforts for the division in the Americas region, which involves product, application, and process development of amines, surfactants, maleic anhydride, and organic carbonates for use in applications such as coatings, composites, oilfield, fuels & lubes, gas treating, electronics, batteries, metalworking, home & personal care, agricultural chemicals, and other industrial technologies. Dr. Leigh has 28 years of professional experience and prior to coming to Huntsman worked for other industrial corporations in R&D, manufacturing, and marketing. Key past experience involved research and marketing of alumina and clay-based nanoparticles in fields such as rheology control, catalysts, and ceramics. Dr. Leigh earned a B.S. degree in chemistry from Baylor University in Waco, TX and M.A. and Ph.D. degrees in chemistry from Rice University in Houston, TX.

Abstract – Commercialization Forum

Title: *How to be Successful in Your Career...Does Anyone Really Know?*

We all know people who we view as successful. We also know people who we view as unsuccessful. So...how do we achieve that success? How do we make our mark in the world? Does anyone really know the true and unmistakable path? What is success anyway? Everyone wants to achieve greatness in his/her career, but the pathway to success can be ambiguous and confusing. How do we get there? Are there preferred behaviors? Do we take risks or play it safe? Do we need a plan? Well...this seminar will explore the definition of success and provide some thoughts on what makes a person great. Ten points will be discussed as guideposts for the journey down the pathway of one's career.

Abstract – Technical Seminar

Title: *Molecular Design of Polyetheramines*

Huntsman Corporation is a global manufacturer and marketer of differentiated chemicals. Huntsman's products are utilized in a variety of global industries, including plastics, automotive, aviation, textiles, footwear, paints and coatings, construction, agriculture, home and personal care, furniture, and packaging. Following a general introduction of the products and markets served by Huntsman, along with additional details on the Performance Products Division, the discussion will turn to the specifics of amine chemistry. Huntsman has a long history with amine technology. Amines and derivatives are employed in many industrial applications, including composites, coatings, fibers, foams, electronics, fuel additives, and other end uses. Details on the chemistry, reactivity, and molecular design of polyetheramines, a key class of amines, will be presented. One particular application for polyetheramines involves their use in the formation and modification of polymers. Accordingly, the basics of polyetheramine use in epoxy systems, polyurea elastomers, and polyamides will be explored.