

Jeremy Wayne Bartels, PhD

Short Bio

Dr. Jeremy Bartels is currently a lead chemist, who has been with Nalco Champion, an Ecolab Company, since November 2014. Dr. Bartels received a Bachelor's degree (2003) and Master's degree (2005) in Chemistry at Texas State University – San Marcos, under the guidance of Professor Gary Beall, and a PhD in Chemistry (2010) at Washington University – St. Louis under the tutelage of Professor Karen L. Wooley (currently at Texas A&M).

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Long Bio

Jeremy began his scientific career at Texas State University – San Marcos, initially starting as an undergraduate lab technician and later finishing his BS and later MS in Chemistry in 2005 in the lab of professor Gary Beall, with a focus on polymer/clay nanocomposites. During his tenure at Texas State, he published 1 peer reviewed publication and 1 patent.

Jeremy went on to pursue his PhD in Chemistry in the lab of Professor Karen L. Wooley at Washington University – St Louis (currently at Texas A&M University), with a focus on controlled radical polymer chemistry as applied to coatings and film production for anti-biofouling applications. During his tenure at Washington University – St Louis, Jeremy published 10 peer reviewed publications in the field of polymer/materials chemistry.

Upon completion of his PhD, Jeremy began work at Sigma Aldrich in Milwaukee, WI. There he contributed towards 20+ specialty polymer products for the Aldrich catalog, including specialty monomers, polymers, macromers and controlled radical polymerization chemicals (particularly RAFT agents). After two years, Jeremy moved to Fort Worth to work at Alcon, a subsidiary of Novartis. There, he learned cGMP method development, transfer and validation for ocular medical devices (contact lens and intraocular lens) as well as vision care and ocular pharmaceutical products. Jeremy personally contributed towards over 10 contact lens products on the market, including highly successful brands such as Dailies Total 1, Air Optix Colors, Night and Day, Dailies Aqua Comfort Plus.

Jeremy is currently located in Sugar Land, TX, where he works as a Lead Chemist at Nalco Champion, an Ecolab company, in the Gas Hydrates RD&E department. Jeremy has contributed to several high caliber research projects, culminating in nine ongoing patent applications and several publications/presentations in the field of natural gas hydrates prevention/flow assurance, along with securing tens of millions in revenue for the RD&E technological pipeline.

Jeremy Wayne Bartels - Abstract

For the Commercialization Forum, my talk title is *“Stretch Yourself: Adapting to Life in Industry”*

Abstract: “What does it take to make it in the chemical industry? Hint: It’s not your degree (although that gets your foot in the door). Learning your organization, adapting to new projects, getting ‘comfortable’ being outside your comfort zone is almost as crucial, if not more crucial, than your how many papers you published in grad school or how good your chemical techniques are. You can’t teach or read about this flexibility in a book, but you can practice it and become a key, must-have asset for an organization. I’ll present a few anecdotes about my career path and how this flexibility has aided me on my path up the career ladder.”

For the Technical Seminar, my talk title is *“Natural Gas Hydrate Control in Oilfield Operations”*

Abstract: “Natural gas hydrates are an ever-evolving flow assurance challenge in oil and gas. This talk will cover the challenges and treatments for natural gas hydrates, including the use of polymeric kinetic hydrate inhibitors and surfactant-like anti-agglomerants. Nalco Champion, an Ecolab Company, provides safe, sustainable chemistry programs and services to the upstream and midstream oil and gas industry, refineries and petrochemical operations. Through onsite problem solving and the application of innovative technologies, we maximize production, optimize water use and overcome complex challenges in the world’s toughest energy frontiers.”