

Biography:

David Gerrard, PhD, earned his BS in Aerospace Engineering from the University of Cincinnati and then received a commission in the United States Marine Corps. He proudly served as an Air Support Control Officer during Operation Desert Storm and then as the Executive Officer of the First Joint UAV Test Company in Fort Huachuca, AZ. Following military service, he earned a PhD in Polymer Engineering from the University of Akron and completed a post-doctoral fellowship for the Polymers Branch at NASA's Glenn Research Center.

His industrial experience has spanned three decades. As an Engineering Co-op Student, he made engineering drawings and built electrical boards for the Garret Turbine Engine Company, and supported Flight Evaluation and Corrosion Testing for General Electric's Aircraft Engine Business Group. As a Senior Research Engineer at the Goodyear Tire and Rubber Company, he was responsible for conducting fundamental studies on a wide range of rubber related topics including material constitutive model parameterization, experimental mechanics, fatigue, fracture, chemical degradation kinetics characterization, friction and wear.

At Baker Hughes, he performed a variety of technical and leadership roles including Senior Project Engineer, Polymer Team Leader, Basic Sciences Group Manager. Eventually, he led the Technology Support Group at the Baker Hughes Center for Technology Innovation and was responsible for the applied research, development and sustaining activities for the \$3+ Billion Baker Hughes Completions Product Line in the areas of elastomers, polymers, composites, metallurgy, fluids, and computational simulations. He was also operationally responsible for the State of the Art Science and Materials Labs at the Center.

Recently as Chief Technology Officer of The Flexitallic Group, he was responsible for the definition and execution of the Group's Technology Leadership Plan and New Product Development Strategy. He also served the global Flexitallic organization as its Corporate HSE Director. Currently, he is Principle of Brave Spear LLC, an engineering, materials, and new product development solutions company.

He has been granted 13 U.S Patents and has authored or coauthored 16 conference papers and publications. He is the past Chair of the Energy Polymer Group. He is a member of the Project Management Institute and currently serves on the leadership team of the Society of Petroleum Engineers Gulf Coast Section R&D Study Group.



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Abstracts:

Commercialization forum:

Trick or Treat?

How lessons from Beggars' Night prepare future Technology Professionals for success in the "Real World."

The seminar:

Elastomers in the Oil Field