Carl David McAfee, Ph.D. McAfee Consulting LLC

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Education:

1990 Ph.D. Analytical Chemistry -> Texas A&M University

1985 B.S. Chemistry -> Harding University

Background:

Fundamental Knowledge of Chemistry, Physics, Math, Polymer Science, & Design of Expts. Applications Knowledge in Plastics, Rubber, Elastomers, Polymers & Nanotechnology

Work Experience:

4000 December	
1996- Present	
	Independent consulting firm focusing on the Chemical & Polymer industries
1994- 1996	Chase Elastomer Corporation, Kennedale, TX
	Technical Director -> lab management, project development, problem analysis
	Application areas: Rubber Rolls, Photopolymer Printing plates, Analytical, etc.
1989-1994	The Dow Chemical Company, Freeport, TX
	Project Leader -> Polyurethane's Applications Development Labs
	Application areas: Polyurethane Chemistry, Polymer Science, Foams, etc.
1985-1989	Texas A&M University, College Station, TX
	Graduate Studies -> Analytical Chemistry, Teaching, Analytical Techniques
	Application areas: Analytical Techniques (all), Nuclear Chemistry, Mass Spec.
1987-1987	Fritz-Haber Institute der Max Planck Gesselschaft, Berlin, West Germany
	Studies Abroad -> work and interact in foreign lab
	Application areas: Field Ion Microscopy and Time-of-Flight Mass Spectrometry
1981-1985	Harding University, Searcy, AR
	Undergraduate Studies -> Chemistry, Physics, Math, & French
	Application areas: Sciences, Computers, Literature, Languages, & Commun.
1983-1983	U.S. Borax Research Corporation, Anaheim, CA
	American Chemical Society Summer Internship
	Application areas: Atomic Absorption Analyses of Precious Metals

Specific Areas of Expertise:

Analytical Chemistry -> Concepts, Techniques, Applications, Separations, Development Polymer Science -> Plastics, Rubber, Elastomers, Testing, Dynamic Properties, Development Nanotechnology -> Extensive mixing, product development, and material characterization Photochemistry -> Photopolymers, water soluble systems, environmentally friendly systems Designed Experiments -> Designed Experiments for Product & Application Development

Patents:

5,851,731	Composition for the Manufacture of Flexographic Printing Plates
	Assigned to Chase Elastomer Corporation, Issued 22 Dec. 1998.
5,373,028	Polyurethane Foams Having Reduced Visible Emissions During Curing
	Assigned to The Dow Chemical Company, Issued 13 Dec. 1994.

Awards

Texas A&M University, College of Science, Academy of Distinguished Former Students, April 2022.

Publications:

McAfee Consulting LLC -> Numerous Papers on Elastomers & Designed Experiments
Dow Chemical Comp. -> Numerous Articles on Polyurethanes and Foams
Texas A&M University -> Numerous Articles on Time-of-Flight Mass Spectrometry

Other:

Energy Rubber Group – Board of Directors – Academic Liaison – 1996 to 2004

Application Development & Commercialization of Nanomaterials in Elastomers – 2006-2016

Adjunct Professor – Univ. of Texas in Arlington – Dept. of Chem. & Material Science – 1997 to 2003

PolymersNet (A Technology Gateway) – Board of Directors – Seoul, S. Korea – 2004 to 2006

Distinct Capital Group – Advisory Board – Austin, Texas – 2015 to present