



**Causey Engineering
LLC**

**Gerald J. Hietpas, PE
President**

Causey Engineering LLC

"Forensic and Investigative Services"

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Curriculum Vitae

ARMENAG H. DEKMEZIAN, PhD



Mr. Dekmezian is an Associate of Causey Engineering, LLC. Causey Engineering has for over 25 years been providing forensic and investigative engineering services and litigation support, specializing in industrial and construction engineering, operations, safety, patents, and regulations. Mr. Dekmezian is a chemist and has expertise in polyolefin materials science and technology. His experience includes product synthesis, material science, patenting, and application of analytical techniques in the design of primarily polyolefin-based plastics, rubbers, and adhesives.

Education:

American University of Beirut, Lebanon

B.S. in Chemistry, 1973

American University of Beirut, Lebanon

Masters in Chemistry, 1975

University of California at Los Angeles

Ph.D., Chemistry, 1979

Florida State University, Tallahassee

Post-doctoral Research, 1980

Patents:

41 Patents (29 Allowed, 13 Published, 3 filed)

Work Experience:

Causey Engineering LLC, Austin, TX

2009 to Present

Forensic Expert: Provide Forensic and investigative work related to polyolefin-based plastics, rubbers, and adhesives. Causey Engineering provides engineering analysis, governmental regulation investigation and research, accident reconstruction and litigation support primarily related to oil and gas, refineries, chemical and petrochem plants, central power

stations, plastics, metals, electronic manufacturing, food processing, pulp and paper, lumber manufacturing, industrial construction, and warehousing.

Exxon Mobil Chemical Company

1981 - 2009

Breakthrough Advisor, Baytown, TX

2003 - 2009

- Evaluated hundreds of concepts to identify Breakthrough (game-changing) opportunities for the ExxonMobil Chemical Company and Upstream Division.
- Advanced two research projects toward commercialization.
- Initiated nanocomposites project to replace metal parts.

Section manager/senior technical professional, Baytown, TX

1993 - 2003

- Led / managed exploration of new catalyst/process for the design of new polyolefins (long chain branched and block copolymers).
- Led effort to develop new high melt strength polypropylene for eight applications.
- Researched new concepts to make metallocene-based polyolefin adhesives and elastic compositions.

Supervisor, Polymer Characterization Laboratory and Research, Linden, N.J.

1985 - 1993

- Led group of chemists and engineers to develop elastic and elastomeric compositions.
- Developed new polymer characterization techniques, including a new solvent-elimination interface for GPC-FTIR hyphenated system.

Technical Research Associate, Baytown, TX

1981 - 1985

- Set up an analytical and characterization laboratory.
- Responsible for Spectroscopy and chromatography laboratory operations.
- Problem solver (over 100 analytical projects per year)

Professional Memberships:

ACS - American Chemical Society

PMSE - Polymeric Materials Science and Engineering

Presentations, Publications:

Publications: 22 in refereed journals

Presentations: Over 20 at scientific conferences

Use of this CV is prohibited until we have a mutually signed agreement concerning your engagement of Causey Engineering LLC. Pending such, the use of our name is also prohibited, and we reserve the right to accept assignment by others in lieu of your firm.