

Mark D. Shelley II, Ph.D.



Associate

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INDUSTRIES

Biotechnology/Life
Sciences
Energy
Technology

PRACTICE AREAS

Intellectual Property
Litigation
Intellectual Property
Litigation

EDUCATION

JD, 2005, *magna cum laude*, University of Houston Law Center, Houston Journal of International Law, Order of the Barons, Order of the Coif
PhD, 2000, Chemical Engineering, Auburn University
MS, 1995, Chemical Engineering, Texas A&M University
BChE, 1993, *summa cum laude*, Auburn University, Phi Kappa Phi, Tau Beta Pi

ADMITTED

Texas 2005
US Patent and
Trademark Office

Mark's practice includes intellectual property matters and related issues.

Mark has over nine years of experience as a chemical engineer, including three years with an engineering consulting firm providing on-site energy assessments for the industrial customers of a Fortune 500 energy company. As a consultant to the pulp and paper, refining, and petrochemical industries, he has identified, developed, and implemented numerous energy/process optimization projects that resulted in substantial financial and environmental benefit.

During his graduate studies, Mark introduced the novel concept of "property integration," a component-less design paradigm which allows chemical engineering process design and optimization to be performed based upon chemical properties rather than individual chemical species or components.

Mark has co-authored numerous papers and conference presentations on chemical process performance optimization using advanced process integration methodologies, tools, and techniques.

ARTICLES/PUBLICATIONS

- "Componentless Design of Recovery and Allocation Systems: A Functionality-Based Clustering Approach" 24 Computers & Chemical Engineering 2081-91 (2000)
- "Techno-Economic Feasibility and Flowsheet Synthesis of Scrap Tire/Waste Plastic Liquefaction " 31 J. Elastomer & Plastic 232-54 (1999)
- "Thermodynamic Analysis of Trinitrotoluene Biodegradation and Mineralization Pathways" 50 Biotechnology & Bioengineering 198-205 (1996)

PROFESSIONAL/CIVIC AFFILIATIONS

Member -

- State Bar of Texas
- Registered Professional Engineer (Texas)
- Houston Young Lawyers Association
- American Intellectual Property Law Association
- American Institute of Chemical Engineers